Validation report form for CDM component project activities

(version 01.0)

Complete this form in accordance with the attachment: "Instructions for filling out the validation report form for CDM component project activities" at the end of this form.

VALIDATION REPORT		
Reference number and title(s) of the specific-case CPA(s)	**Ref. no.**	**Title**
	CPA 002	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 002
	CPA 003	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 003
	CPA 004	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 004
	CPA 005	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 005
	CPA 006	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 006
	CPA 007	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 007
	CPA 008	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 008
	CPA 009	Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 009
Version number of the validation report	Version 03	
Completion date of the validation report	27/01/2017	
Title and UNFCCC ref. no. of the PoA (where applicable) into which the specific-case CPA(s) is/are included	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" UNFCCC reference Number: 9176	
Version number of the PoA-DD into which the specific-case CPA(s) is/are included	Version 5 dated 16/01/2015	
Coordinating/managing entity (CME)	Envirofit International Ltd	
Host Party(ies)	Honduras	
Estimated annual average emission reductions or net GHG removals in the crediting period (tCO2e) for each	**CPA Ref. no.**	**Estimated annual average emission reductions or net GHG removals in the crediting period**

specific-case CPA		**(tCO2e)**
	CPA 002	42,222
	CPA 003	42,222
	CPA 004	42,222
	CPA 005	42,222
	CPA 006	42,222
	CPA 007	42,222
	CPA 008	42,222
	CPA 009	42,222
Sectoral scope(s) for each specific-case CPA	**CPA Ref. no.**	**Sectoral scope(s)**
	CPA 002	Sectoral scope 3: Energy demand
	CPA 003	Sectoral scope 3: Energy demand
	CPA 004	Sectoral scope 3: Energy demand
	CPA 005	Sectoral scope 3: Energy demand
	CPA 006	Sectoral scope 3: Energy demand
	CPA 007	Sectoral scope 3: Energy demand
	CPA 008	Sectoral scope 3: Energy demand
	CPA 009	Sectoral scope 3: Energy demand
Selected methodology(ies) for each specific-case CPA	**CPA Ref. no.**	**Selected methodology(ies)**
	CPA 002	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
	CPA 003	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
	CPA 004	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
	CPA 005	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
	CPA 006	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
	CPA 007	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
	CPA 008	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
	CPA 009	AMS-II.G: "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass" (Version 06)
Selected standardized baseline(s) for each specific-case CPA	**CPA Ref. no.**	**Selected standardized baseline(s)**
	CPA 002	NA

	CPA 003	NA
	CPA 004	NA
	CPA 005	NA
	CPA 006	NA
	CPA 007	NA
	CPA 008	NA
	CPA 009	NA
Name of DOE	Carbon Check (India) Private Ltd.	
Name, position and signature of the approver of the validation report	Amit Anand, CEO	

SECTION I. Executive summary

Envirofit International Ltd has commissioned Carbon Check (India) Private Ltd. (CCIPL) to perform the validation of the proposed small scale CPAs “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 002”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 003”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 004”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 005”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 006”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 007”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 008” and “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 009” requesting to be included in the PoA “Improved Cookstoves Program in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento””. CCIPL was commissioned to assess the information in the CDM-SSC-CPA-DDs for the CPAs titled “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 002”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 003”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 004”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 005”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 006”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 007”, “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 008” and “Improved Cookstoves Project Activity in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento” – CPA No 009” (hereafter called “the CPAs”) against the requirements for including CPAs to the registered PoA “Improved Cookstoves Program in Honduras “Vida Mejor con Ecofogones de Alto Rendimiento”” and further documentation requirements for including CPAs to a PoA.

This report summarizes the findings of the validation of the small-scale component Project Activity Design Document (CDM-SSC-CPA-DD), performed on the basis of UNFCCC criteria for the CDM, as well as criteria given to provide for consistent project operations, monitoring and reporting and eligibility criteria for inclusion of the CPA as established in the PoA-DD /B02/. The term “UNFCCC criteria” refers to Article 12 of the Kyoto Protocol, the CDM modalities and procedures and the simplified modalities and procedures for small scale CDM project and the subsequent decisions by the COP/MOP and CDM Executive Board. In addition to these criteria, host country criteria are also taken into account.

The assessment of a CPA requesting to be included in a PoA shall ensure that all the requirements (as defined in the form of eligibility criteria) determined in the PoA are met. The assessment was performed on the basis of the eligibility and additionality criteria established in the PoA and the UNFCCC criteria for including CPAs to a Programme of Activities (PoA) under the Clean Development Mechanism (CDM), as well as criteria given to provide for consistent project operations, monitoring and reporting according to AMS-II.G, Version 06.0 /B03/.

The main objective of the PoA and the CPA(s) is to facilitate the transition away from inefficient conventional firewood stoves by providing improved efficiency, clean burning firewood cooking stoves (ICS) to local households/SMEs (institutional/commercial). The ICS disseminated through this programme will replace the existing inefficient stoves in the baseline, thus saving fuel and lowering greenhouse gas emissions. The CPAs are expected to replace conventional firewood stoves of the types “fogon suelo”, “fogon tradicional”, “Justa traditional”, “Justa 2x3” and “other inefficient” stoves with higher efficiency ICS models to residential users by leveraging resources provided by the PoA.

The validation scope is defined as an independent and objective review of the Component project activity design documents (CPA-DDs /01-(d)/). The CPA-DDs /01-(d)/ are reviewed against the relevant UNFCCC CDM criteria for validation and registration of PoA. The validation team has, based on the recommendations in the Validation and Verification Standard, version 09.0 /B01-1/, employed a rule-based approach, focusing on the identification of significant risks for project implementation and the generation of CERs.

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

While carrying out the validation, CCIPL determines if the CPAs comply with the requirements of UNFCCC, specifically the applicability conditions of the selected methodology and also assesses the claims and assumptions made in the CPA-DDs /01-(d)/ without limitation on the information provided by the project participants.

The report is based on the assessment of the CPA-DDs /01-(d)/ undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews, site visit, and stakeholder interviews, review of the applicable/applied methodology and its underlying formulae and calculations.

This report contains the findings and resolutions from the validation and a validation opinion on the proposed CPAs thus confirming the project design as document is sound and reasonable and meets the stated requirements and identified criteria.

SECTION II. Validation team, technical reviewer and approver

II.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader / Validator / Technical Expert	IR	Dimri	Anubhav	CCIPL	X	X	X	X
2.	Local Expert	EI	Valladares	Katherine	CCIPL		X	X	X

II.2. Technical reviewer and approver of the validation report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Singh	Vikash Kumar	CCIPL
2.	Approver	IR	Anand	Amit	CCIPL

SECTION III. Means of validation

III.1. Desk review

The validation was performed primarily based on the review of the CPA-DDs /01-(d)/ and the supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology. Documents reviewed or referenced during the validation/CPA inclusion are listed in Appendix 3 below.

III.2. On-site inspection

Duration of on-site inspection: 12/12/2016 to 14/12/2016				
No.	**Activity performed on-site**	**Site location**	**Date**	**Team member**
1.	Assessment of CPA boundary and CPA description	Tegucigalpa, Honduras	12/12/2016	Anubhav Dimri Katherine Valladares
2.	Eligibility Criteria assessment including serial numbering system, CER waiver agreements, double counting, start date, debundling check	Tegucigalpa, Honduras	12/12/2016	Anubhav Dimri Katherine Valladares
3.	Baseline survey assessment	Tegucigalpa,	12/12/2016 –	Anubhav Dimri

		Honduras	13/12/2016	Katherine Valladares
4.	Implementation and operation status and Implementation schedule of unimplemented CPAs	Tegucigalpa, Honduras	13/12/2016	Anubhav Dimri Katherine Valladares
5.	Local Stakeholder Consultation	Tegucigalpa, Honduras	13/12/2016	Anubhav Dimri Katherine Valladares
5.	Operational and management plan, Monitoring plan, Sampling plan and appropriateness of the methodology for the CPA type	Tegucigalpa, Honduras	14/12/2016	Anubhav Dimri Katherine Valladares
5.	Discussion on crediting period, ex-ante parameters, ER estimation, additionality, CPA funding, EIA and legal requirements	Tegucigalpa, Honduras	14/12/2016	Anubhav Dimri Katherine Valladares

III.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Castillo	Paola	Envirofit Honduras	12/12/2016 – 14/12/2016	Baseline scenario, Technology to be used in the CPA; CPA implementation; ICS distribution procedure; Record keeping and monitoring plan; Operational and Management plan; Organization structure	Anubhav Dimri Katherine Valladares
2.	Zelaya	Heizel	Envirofit Honduras	12/12/2016 – 14/12/2016	Assessment on the area demographics and identification of regions for sales/distribution; Procedure on customer feedback system; Customer Service system	Anubhav Dimri Katherine Valladares
3.	Molina	Josue	Envirofit Honduras	12/12/2016 – 14/12/2016	Quality Control; Training of households for stove usage; Installation and service; Maintenance and replacement of installed stoves	Anubhav Dimri Katherine Valladares
4.	Noé	Marcio	Envirofit Honduras	12/12/2016 – 14/12/2016	Operational and Management plan; Organization structure	Anubhav Dimri Katherine Valladares
5.	Ulloa	Wendy	Local Stakeholder (Family Guide)	13/12/2016	Local Stakeholder Consultation	Anubhav Dimri Katherine Valladares
6.	Valle	Santos	Local Stakeholder	13/12/2016	Local Stakeholder Consultation	Anubhav Dimri Katherine Valladares
7.	Lohia	Rohit	Envirofit	14/12/2016	Baseline scenario,	Anubhav Dimri

			Internation al Limited		Technology to be used in the CPA; CPA implementation; Start date of the CPAs, Organization structure	Katherine Valladares

III.4. Sampling approach

The physical on-site visit was conducted during the course of validation of the proposed CPAs to confirm and validate the baseline fuel quantity estimated based on the third party reports /11/ /12/ and the status of the implementation of the CPA. Interviews were conducted with households from the CPA to confirm the details in the baseline survey. In accordance with the para 26-29 of the sampling standard/B05-3/, DOE selected 18 households randomly from Honduras with a mix of rural, peri-urban and urban populations. The households identified by the DOE were interviewed on the type of stove used, number of eaters and amount of fuel consumed per day. Other information collected for the households included Name of the household representative, location and contact number. Based on the survey, all the stoves for the households were traditional, an average value of 4.88 was determined for the number of eaters and 3.23 tonnes of fuel was being used per stove per year. The values have been compared with the third party reports/11//12/ and it is determined that the household size of 4.810 and $B_{old,i}$ of 3.100 tonnes/year (per stove) are comparable to the values determined through DOE's sample. Thus, the values determined for the baseline survey report are acceptable to the validation team.

III.5. Clarification requests, corrective action requests and forward action requests raised

Areas of validation of compliance	No. of CL	No. of CAR	No. of FAR
General description of the CPA(s)			
• Title of the proposed or registered PoA	00	00	00
• Title(s) of the proposed specific-case CPA(s) and the corresponding generic CPA(s)	00	00	00
• Specific-case CPA design document	00	01	00
• Purpose and general description of the specific-case CPA(s)	00	01	00
Environmental analysis	00	00	00
Local stakeholder consultation	00	00	00
Eligibility of CPA(s) and estimation of emissions reductions			
• Applicability of selected methodology(ies) and/or standardized baseline	01	00	00
○ Deviation from methodology	00	00	00
○ Clarification on applicability of methodology, tool and/or standardized baseline	00	00	00
• Sources and GHGs	00	00	00
• Description of baseline scenario	01	00	00
• Demonstration of eligibility for the CPA(s)	01	01	00
• Estimation of emission reductions or net GHG removals by sinks			
○ Explanation of methodological choices	00	00	00
○ Data and parameters fixed ex ante	00	00	00
○ Ex ante calculation of emission reductions or net GHG removals by sinks	01	00	00
○ Summary of ex ante estimates of emission reductions or net GHG removals by sinks	00	00	00
• Application of the monitoring methodology and description of the monitoring plan			
○ Data and parameters to be monitored	02	00	00
○ Description of the monitoring plan	00	00	00
Total	06	03	00

SECTION IV. Internal quality control

The final validation report has passed a technical review before being submitted to the Coordinating/Managing Entity / project participant and UNFCCC Executive Board. The technical review was performed by a technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification.

SECTION V. Validation opinion

Under the validation (by means of document review and interviews with stakeholders), the validation team considers that the description of the CPAs titled "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 002", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 003", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 004", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 005", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 006", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 007", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 008" and "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 009" as described in the CPA-DDs /01-(d)/ is accurate and complete; meets the requirements to be included in the PoA titled "Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento"" /B02/ and correctly applies the baseline and monitoring methodology AMS-II.G, Version 06.0 /B03/.

Standard auditing techniques have been used for the validation of the project. An analysis, as provided by the applied methodology, demonstrates that the proposed CPA is not a likely baseline scenario. Emission reductions attributable to the CPAs are additional to any that would occur in the absence of the project activity. Given that the CPAs are implemented as designed, the projects are likely to achieve the estimated amount of emission reductions as specified within the CPA-DDs /01-(d)/.

The validation is based on the information made available to CCIPL, as well as the engagement conditions detailed in this report. The validation has been performed following the VVS requirements /B01-1/.

The validation was executed in the following steps so far:

- Receipt of CPA-DDs /01-(b)/
- Desk review of the CPA-DDs applying AMS-II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version 6.0
- On site visit undertaken for the CPAs and Interview with the CME
- Issue of checklist with corrective action requests (CARs) and clarification requests (CLs) and the draft validation report
- Follow up actions (interviews) for cross checking data
- Review of responses for CARs/CLs
- Issue of the final validation report

The CPAs correctly apply the baseline and monitoring methodology of the PoA namely AMS-II.G, Version 06, "Energy efficiency measures in thermal applications of non-renewable biomass" /B03/.

The validation did not reveal any information that indicates that the CPAs can be seen as diversion of ODA funding towards the CPAs/PoA.

The CPA-DDs contain monitoring plan for the monitoring of the emission reductions from the project. The monitoring arrangements described in the monitoring plan are feasible within the programme design and it is CCIPL's opinion that the Coordinating/Managing Entity/project participant is able to implement the monitoring plan.

By the implementation of the improved cooking stoves replacing the traditional cookstoves, the project activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and provide long-term benefits to the mitigation of climate change.

During the course of validation, a total of Three (03) Corrective Action Requests (CARs) and Six (06) Clarification Requests (CLs), for each of the CPAs (total eight), were identified on the initially submitted CPA-DDs /01-(d)/. Upon evaluation of responses provided by the CME, all the identified issues were closed successfully.

The single purpose of this report is its use during the inclusion process (of the specific CPAs). The review of the CPA-DDs /01-(d)/, subsequent follow-up interviews and further verification of references have provided CCIPL, with sufficient evidence to determine the fulfilment of stated criteria in the PoA-DD /B02/ and the CPA-DDs /01-(d)/. In the opinion of CCIPL, the CPAs meet all relevant UNFCCC requirements for the CDM if the underlying assumptions do not change. CCIPL recommends the CPAs for inclusion in the registered PoA.

SECTION VI. Validation findings

SECTION A. General description of the CPA(s)

A.1. Title of the proposed or registered PoA

Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento"

A.2. Title(s) of the proposed specific-case CPA(s) and the corresponding generic CPA(s)

Specific-case CPA title and reference number	Version number of the specific-case CPA-DD	Host Party	Generic CPA title, identification/reference number	Version number of the PoA-DD into which the CPA is included
Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 002	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015
Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 003	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015
Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 004	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015
Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 005	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015
Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 006	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015

Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 007	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015
Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 008	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015
Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 009	Version 2.1, dated 16/01/2017	Honduras	Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – Generic CPA	Version 5 dated 16/01/2015

A.3. Specific-case CPA design document

Means of validation	Document Review, Interview
Findings	CAR01 had been raised in this regard and successfully closed.
Conclusion	In accordance with the para 87 of the Project Standard version 09, SSC-CPA-DD for the CPAs have not been completed using the appropriate form for small-scale CPA (CDM-SSC-CPA-DD-FORM). Through means of document review and interviews with stakeholders, the validation team considers that the description of the CPAs in the CPA-DDs/01(d)/ is accurate and complete; meets the requirements to be included in the PoA titled "Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento"" /B02/ and correctly apply the baseline and monitoring methodology AMS-II.G, Version 06 /B03/ and requirements of VVS version 09 /B01-1/.

A.4. Purpose and general description of the specific-case CPA(s)

Means of validation	DR, I
Findings	CAR 02 had been raised in this regard and successfully closed.
Conclusion	The following description of the proposed component project activities as per CPA-DDs /01-(d)/ is verified: The CPAs titled "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 002", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 003", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 004", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 005", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 006", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 007", "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 008" and "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 009" are developed under the Small-Scale Programme of Activities (PoA) titled "Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 002" /B02/, which is coordinated and

managed by Envirofit International Ltd. All the 8 CPAs of the PoA /B02/ involve distribution of ICS in Honduras, as per the CPA-DDs /01-b/ and each of the CPAs involve approximately 21,546 fuel-efficient improved cook stoves (ICS) in Honduras.

The main objective of these CPAs is to facilitate the transition away from inefficient conventional non-renewable biomass stoves by providing high efficiency, clean burning non-renewable biomass cooking stoves (ICS) to residential households. This SSC-CPAs aim to provide both climate and livelihood benefits to the large population of Honduran households currently using inefficient non-renewable biomass burning stoves. ICS are expected to improve heat transfer efficiency as compared to the baseline conventional stoves, thereby reducing both the amount of wood fuel used by unit appliance implemented and equivalent emission of GHGs.

The CPA's distribution organisation or implementer is Fundacion para el Desarrollo Integral de Honduras (FUNDEIH), for the eight CPAs included with this inclusion, as confirmed by reviewing the CPA-DDs /01-(d)/, agreement /06/ between the CME and CPA's distribution organisation and interviews with the representative of the CME. The CME shall be responsible to perform quality control activities for the proposed CPAs and the same has been checked and confirmed by reviewing the CPA-DDs /01-(d)/ and interviews with the representative of the CME.

The CPAs will involve dissemination and installation of plancha stoves and two models of plancha stoves have been distributed/ planned to be distributed in the CPA: HM4000 and HM 5000. A complete list of applicable stoves for the CPAs is provided below:

1. CPA002 – HM4000 and HM5000
2. CPA003 - HM4000 and HM5000
3. CPA004 - HM4000 and HM5000
4. CPA005 - HM4000 and HM5000
5. CPA006 - HM4000 and HM5000
6. CPA007 - HM4000 and HM5000
7. CPA008 - HM4000 and HM5000
8. CPA009 - HM4000 and HM5000

The project stove incorporates a cutting edge computational fluid dynamic (CFD) modelling, advanced heat transfers numeric modelling and a robust material selection process. Salient features of the Envirofit stoves are:

- High Quality Metal Combustion Chamber
- Protective Chimney Guard
- Convenient Ash Removal Box
- Wrapped Fiber Insulation
- Equalized Heat Distribution
- Removable Cast Iron Griddle (plancha)
- Extended Work Surface
- Stainless Steel Fire Chamber
- Stable Wood support

The unit size (height X weight X depth) for HM4000 is 875 X 720 X 1260 cm and for HM5000 is 989 x 640 x 787 cm. The HM4000 stoves have an efficiency of 28 % and HM5000 have an efficiency of 28.9 % /03/.

Start date for the CPAs as provided in the CPA-DDs/01(d)/is:

1. CPA002 – 09/01/2015
2. CPA003 – 19/11/2015
3. CPA004 – 11/02/2016
4. CPA005 – 08/04/2016
5. CPA006 – 25/05/2016
6. CPA007 – 01/02/2017 (expected)
7. CPA008 – 01/02/2017 (expected)
8. CPA009 – 01/02/2017 (expected)

As the start date of the CPAs are after the start date of the PoA (on 28/01/2012),

	the validation team found it acceptable. The validation team based on the review of the project search screenshot from the CME /09/ confirms that there is no double counting of emission reductions due to the implementation/inclusion of the CPAs, as the CPAs do not belong to or are included in any other PoA or stand-alone CDM project. The validation team has cross-checked this from the UNFCCC website /B05-1/ and interviews with the representatives of the CME and confirms that there is no double counting, the double-counting risk is prevented by the unique serial number /04//05/ marked on each of the distributed cookstoves. Furthermore, the validation team based on the review of the CPA-DDs /01-(d)/ and the stove sales records/05/ confirms that in order to avoid double counting, the CME has adopted a provision of a record keeping system. The record keeping system for the proposed CPAs under the PoA includes detailed sales information collected from end-user and includes CPA assignment and user details (i.e. name, address). Double counting of emissions reductions will be avoided because each CPA and each ICS distributed will have a unique identification number. The CPA implementer intends to disseminate about 21,546 stoves in each of the eight CPAs and given that the CPAs would be implemented as described in the CPA-DDs /01-(d)/, it is likely that all the eight CPAs achieve the estimated amount of emission reductions of 295,554 tCO_2e /02-(d)/ over the 7 years renewable crediting period, leading to an annual average of 42,222 /02-(d)/ tCO_2e as indicated in the final CPA-PDDs /01-(d)/ and also in the ER calculation sheets /02-(d)/. Based on the information furnished by the CME in the undertaking /08/, no ODA contributes to the financing of the CPAs. The validation team has checked that the CPAs are not a de-bundled component of large scale project or PoA in line with General Principles for Bundling (Version 02.0); Annex 21, EB 66 /B05-6/ and the same has been described/demonstrated in the CPA-DDs /01-(d)/, checked and confirmed by the validation team.

SECTION B. Environmental analysis

Means of validation	DR, I
Findings	There are no findings on this section of the verification report.
Conclusion	It has been indicated in the PoA-DD /B02/ that environmental analysis is carried out at the PoA level. Hence further validation is not required.

SECTION C. Local stakeholder consultation

Means of validation	DR, I
Findings	There are no findings on this section of the verification report.
Conclusion	It has been indicated in the PoA-DD /B02/ that LSC is carried out at PoA level. Hence further validation is not required. Validation team interviewed local stakeholders during the site visit and received no negative comments on the programme and the CPAs under consideration.

SECTION D. Eligibility of CPA(s) and estimation of emissions reductions

D.1. Applicability of selected methodology and/or standardized baseline

Means of validation	DR, I
Findings	CL 02 had been raised in this regard and has been resolved.
Conclusion	Applicability of the methodology and/or standardized baseline has been demonstrated at the PoA level for all the CPAs in the PoA. As per the registered PoA-DD /B02/, the selected methodology applied for the CPAs is AMS II.G, Version 06 /B03/. Applicability of the methodology is discussed below: 1. **Para 2 of the methodology: "***This category comprises efficiency improvements in thermal applications of non- renewable biomass. Examples of applicable technologies and measures include the introduction of high efficiency*

Means of validation	DR, I
	biomass fired cook stoves or ovens or dryers to replace the existing devices and/or energy efficiency improvements in existing biomass fired cook stoves or ovens or dryers."**:** The CPAs involve introduction of high efficiency non-renewable biomass fired cook stoves to replace the existing non-renewable biomass fired cook stoves. This has been demonstrated in eligibility criterion 9 of the CPA-DD/01(d)/. The proposed stove models HM 4000 and HM 5000 are biomass fired cook stoves as confirmed through the specification sheets/04/. 2. **Para 3 of the methodology: "***The methodology is applicable to single pot or multi pot portable or in-situ cook stoves with rated efficiency of at least 20 per cent. The efficiency of the project devices shall be based on certification by a national standards body or an appropriate certifying agent recognized by that body. Alternatively, manufacturer specifications on efficiency based on water boiling test (WBT) may be used. The sampling test of stoves by such certification bodies/agents or manufacturers shall be conducted following a 90/10 precision in accordance with the "Standard for sampling and surveys for CDM project activities and programme of activities". However, the following simplified approach may be used, when the efficient cook-stoves are produced by a manufacturer with a good quality management system in place to ensure that the individual equipment produced do not vary beyond the range of acceptance limits (e.g. characteristics such as materials, critical dimensions): (a) Conduct a sample test on three cook stoves with three tests conducted for each stove; (b) If the standard deviation of the nine test results indicated above is very small and 90/10 precision requirement is met (in this case, the value of the t-distribution for 90 per cent confidence shall be used instead of Z value), the efficiency determined is acceptable, otherwise more sample tests would be required until 90/10 precision is met.*"**:** The CPAs involve introduction of multi pot portable cook stoves with rated efficiency of at least 20 per cent. The applicable stove models under CPAs HM4000 and HM5000 have efficiency of 28 % and 28.9 % respectively /03/. The efficiency of the project device HM4000 is based on the certificate from the Colorado State University, Engines and Energy Conversion Laboratory (CSU EECL). CSU EECL is a stove testing centre, approved and accredited by Global Alliance for Clean Cookstoves (GACC), operating in Honduras. The efficiency of the project device HM5000 is based on the manufacturer specifications/03-bi/ based on water boiling tests. The test results for HM5000 from the manufacturer are approved by the Colorado State University, Engines and Energy Conversion Laboratory (CSU EECL) as confirmed through the letter/03-biv/ provided. This has been demonstrated in eligibility criterion 10 of the CPA-DD/01(d)/. 3. **Para 4 of the methodology: "***Project participants shall be able to show that non-renewable biomass has been used in the project region since 31 December 1989, using survey methods or referring to published literature, official reports or statistics.*"**:** This has been demonstrated at the PoA level/B02/ in the registered PoA for the CPA boundary, i.e. Honduras. Also confirmed in eligibility criterion 12 of the CPA-DD/01(d)/. 4. **Para 5 of the methodology: "***The aggregate energy savings of a single project activity shall not exceed the equivalent of 60 GWh per year or 180 GWh thermal per year in fuel input.*"**:** 8. Each of the CPAs aim to achieve energy savings of not more than 180 GWh_{th} per year. Based on the energy saving calculations included in the ER calculation sheets /02-(d)/, energy savings per ICS unit is confirmed as 0.008354 GWh_{th}/year. Considering that a maximum of 21,546 ICS would be operational per year in each of the small-scale CPAs, this corresponds to 180 GWh_{th}/year of energy savings per CPA, which is the small-scale threshold limit. Also confirmed in eligibility criterion 14 of the CPA-DD/01(d)/. Based on the above assessment, validation team concludes that the subject CPAs comply with the requirements of the para 277 of the VVS version 09.0//B01-1/.

D.1.1. Deviation from methodology

Means of validation	DR, I
Findings	-

Conclusion	No methodology deviation is being applied for the CPAs.

D.1.2. Clarification on applicability of methodology, tool and/or standardized baseline

Means of validation	DR, I
Findings	-
Conclusion	No clarification is required on applicability of the applied methodology.

D.2. Sources and GHGs

Means of validation	DR, I
Findings	There are no findings on this section of the validation report.
Conclusion	As per § 11 of the applied baseline methodology AMS-II.G, Version 06, The project boundary is the physical, geographical site of the efficient devices that burn biomass. The project boundary information has been correctly given in section D.3 of the CPA-DDs /01-(d)/ and is consistent with the description of project boundary provided in the PoA-DD /B02/. The physical delineation of the CPAs 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 emission reductions for the CPAs. Validation team also confirms that the project boundary for the CPAs is based on the applied methodology /B03/ and the sources and gases within the boundary have been considered in a clear manner. The information for boundary of the CPA has not been provided in section D.3 of the CPA-DD.

D.3. Description of baseline scenario

Means of validation	DR, I
Findings	CL02 had been raised in this regard and has been resolved.
Conclusion	As stated in the applied methodology AMS II.G, Version 06 /B03/ and the CPA-DDs /1-(d)/, it is assumed that in the absence of the project activity, the baseline scenario is the use of fossil fuels for meeting similar thermal energy needs as in the project activity. Baseline scenario has been identified using published literature/11/ /12/. The physical on-site visit was conducted during the course of validation of the proposed CPAs to confirm and validate the baseline survey and the status of the implementation of the CPA. Interviews were conducted with households from the CPA to confirm the details in the baseline fuel quantity estimated based on the third party reports /11/ /12/. In accordance with the para 26-29 of the sampling standard /B05-3/, DOE selected 18 households randomly from Honduras with a mix of rural, peri-urban and urban populations. The households identified by the DOE were interviewed on the type of stove used, number of eaters and amount of fuel consumed per day. Other information collected for the households included Name of the household representative, location and contact number. Based on the survey, all the stoves for the households were traditional, an average value of 4.88 was determined for the number of eaters and 3.23 tonnes of fuel was being used per stove per year. The values have been compared with the third party report /11//12/ and it is determined that the household size of 4.810 and $B_{old,i}$ of 3.100 tonnes/year (per stove) are comparable to the values determined through DOE's sample. Thus, the values determined for the baseline survey report are acceptable to the validation team.

D.4. Demonstration of eligibility for the CPA(s)

All the eligibility criteria required for the inclusion of the CPA under the PoA have been addressed in the CPA-DDs /01-(d)/. The stated confirmation against each eligibility criteria has been checked / assessed and found acceptable by the validation team. CL 03 and CAR 03 had been raised in this regard and have been resolved.

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
1	All distributed ICS in each CPA shall be located within geographical boundary of Honduras. Please note that all ICS installations may not have been deployed at CPA inclusion stage, however the location of the ICS can also be checked during verification. In the event that any deployed ICS is found to be outside of the PoA boundary/location, those ICS will not be counted in the emission reduction calculation.	☒ Yes ☐ No	Based on the review of the section A.7 of the CPA-DDs /01-(d)/, it is confirmed that the geographical boundary of all the eight CPAs is limited to Honduras with the geographical coordinates 14.1000 N, 87.2167 W. This has been cross-checked with the map for Honduras/B06-3/. This is further supported by the sales database/05/ and it is confirmed that all the stoves have been distributed in Honduras for CPA002-CPA006. The stoves shall be distributed only in Honduras for CPA007-CPA009. **Conclusion:** Based on the above assessment, the validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
2	A unique numbering or identification system for the ICS installed is applied. This shall ensure no double counting of stoves within the PoA and ensure that stoves can be identified as belonging to this PoA and not to a PoA managed by any other CME. Please note that all ICS installations may not have been deployed at CPA inclusion stage, however the ICS unique numbering can also be checked during verification. In the event that any deployed ICS is found not in line with CPA double counting criteria, those ICS will not be counted in the emission reduction calculation.	☒ Yes ☐ No	Based on the review of the CPA-DDs /01-(d)/ and the sales database /05/, it is confirmed that a system for unique numbering is in place. The sales database includes CPA assignment and user details (i.e. name, address) for the already implemented stoves. Validation team also checked some of the stoves distributed in CPA002-CPA006 for the serial number and confirms that a system for unique serial number is in place. Furthermore, the details of all the serial numbers for CPA002-CPA009 shall be available at the time of verification. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
3	The CPA is exclusively bound to the PoA. Confirmation that the programme activity has not been and will not be registered either as a single CDM project activity or as a CPA under another PoA.	☒ Yes ☐ No	Based on the review of the statement provided in the section A.13 of the CPA-DD, it is confirmed that the specific CPA will not be part of another single CDM project activity or CPA under another PoA. Furthermore, evidence has been provided as a screenshot of the UNFCCC website/09/ with date of access for the projects and PoAs in Honduras. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
4	Contractual provisions to ensure that those operating the CPA are aware and have agreed that their activity is	☒ Yes ☐ No	Based on the review of the contractual agreement /06/ between the CME, Envirofit International Limited and the CPA operators (DO), FUNDEIH it is confirmed that they are aware and have agreed that their activity is

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
	being subscribed to the PoA. In the case that the CME is not responsible for implementing the CPA, the organization responsible for CPA implementation, known as the Distributing Organisation (DO), has signed a contractual agreement with the CME to participate in the PoA. This agreement: - Defines the ownership of the carbon emission reduction rights - Covers the DO's distribution and monitoring related responsibilities - Confirms that the ICS to be distributed under the CPA have not and will not be distributed under any other carbon project (CDM project, PoA or voluntary carbon market project) Cedes the DO's rights to the carbon credits generated from CPAs under the PoA to the CME		being subscribed to the PoA. The agreement: - Defines the ownership of the carbon emission reduction rights - Covers the DO's distribution and monitoring related responsibilities - Confirms that the ICS to be distributed under the CPA have not and will not be distributed under any other carbon project (CDM project, PoA or voluntary carbon market project) - Cedes the DO's rights to the carbon credits generated from CPAs under the PoA to the CME **Conclusion:** Based on the above assessment, validation team concludes that the subject CPAs comply with this eligibility criterion of the PoA.
5	The CME and the CPA operator (in case of being different from the CME) shall confirm that funding from Annex 1 party, if any shall not be diversion of Official Development Assistance.	☒ Yes ☐ No	A statement has been provided in the Appendix 2 of the CPA-DDs/01(d)/ that No public funding is involved in the CPAs. CME has also provided a declaration/08/ confirming no public funding in the PoA and the CPAs. **Conclusion:** Based on the above assessment, validation team concludes that the subject CPAs comply with this eligibility criterion of the PoA.
6	CPA start date shall not be before PoA validation start date (i.e. i.e. 28 January 2012, date of webhosting of PoA-DD for global stakeholder consultation). Please note that not all ICS installations may have been deployed at CPA inclusion stage, however the ICS start date can also be checked during verification. In the event that any deployed ICS is found not in line with CPA start date, those ICS will not be counted in the emission	☒ Yes ☐ No	Starting date of each of the CPAs has been provided in the section A.8 of the respective CPA-DDs/01(d)/. The PoA start date is 28/01/2012 and the start date of each of the 8 CPAs (CPA002-CPA009) is later than the start date of the PoA. Start date for the CPAs as provided in the CPA-DDs/01(d)/ are: 1. CPA002 – 09/01/2015 2. CPA003 – 19/11/2015 3. CPA004 – 11/02/2016 4. CPA005 – 08/04/2016 5. CPA006 – 25/05/2016 6. CPA007 – 01/02/2017 (expected) 7. CPA008 – 01/02/2017 (expected) 8. CPA009 – 01/02/2017 (expected) The start date of the CPAs CPA002-CPA006 has been evidenced through the sales receipts/10/ provided and for CPAs CPA007-CPA009 through the proposed

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
	reduction calculation		implementation plan/02(d)/. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
7	CPA crediting period shall be within the life time of the PoA. The start date of the crediting period of a CPA shall be on or after: (i) The date of registration of the PoA, if the corresponding CPA-DD is submitted together with the request for registration; (iii) The date when the CPA was included in accordance with the Project cycle procedure;	☒ Yes ☐ No	A statement has been provided in the section A.9 of the CPA-DDs/01(d)/ specifying the crediting period starting date and the duration of the crediting period. It has also been substantiated in the CPA-DD that the crediting period starts after the PoA registration date and will not exceed the PoA life time (this is 28 years after the date of registration of the PoA). The date of registration of the PoA has been provided as 28/01/2012 and the PoA has a lifetime of 28 years, upto 27/01/2040. The expected starting date of the crediting period for the CPAs are: 1. CPA002 – 01/02/2017 2. CPA003 – 01/02/2017 3. CPA004 – 01/02/2017 4. CPA005 – 01/02/2017 5. CPA006 – 01/02/2017 6. CPA007 – 01/02/2017 7. CPA008 – 01/02/2017 8. CPA009 – 01/02/2017 The CPAs have a renewable crediting period and are renewable upto 31/12/2037, which is earlier than the last date of the PoA lifetime. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
8	CME approved each CPA to be included into its registered PoA.	☒ Yes ☐ No	A statement of CME has been provided in section A.4 of each CPA-DD/01(d)/ giving approval for the CPA to be included into its registered PoA **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
9	The CPA consists of replacement of conventional firewood cooksotves for biomass fired ICS, stove type defined in the PoA-DD., Conventional stoves replaced will be any of the types identified by each baseline scenario and as applied by the specific CPA. Stove types replaced and implemented will be defined in the CPA-DD, and hence appliances involving the efficiency improvements in the thermal applications of non-renewable biomass as	☒ Yes ☐ No	Type of ICS used in the CPAs has been provided in the section A.5 of the CPA-DDs/01(d)/. There are two types of stove models included in the CPAs HM4000 and HM5000. Manufacturer's specification for both the stoves HM4000 and HM5000 have been provided to the validation team. Compliance with the technological requirements of AMS II-G has been described in the section D.2 of the specific CPA-DDs/01(d)/. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
	per AMS II. G. Please note that all ICS may not have been deployed at CPA inclusion stage, the 'type and number of ICS deployed' will however also be checked during verification, and in case any deployed ICS type will be found not in line with the methodology requirement, those ICS will not be counted for emission reduction calculation.		
10	The ICS disseminated under the CPA will be single pot, multi-pot or in-situ cookstoves that have a specified efficiency of at least 20% at the time of inclusion.	☒ Yes ☐ No	The efficiency specification from energy institute of Colorado state University has been provided to confirm that the specified efficiency at the time of CPA inclusion is atleast 20%. The average thermal efficiency of HM4000 is 28 % and for HM5000 is 28.9 % from the supporting document provided. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
11	Only ICS of the types below will be disseminated: - Biomass fuelled ICS - Newly operational ICS - Either fix/portable operation Other requirements (i.e. efficiency, maximum capacity, level of service, distribution mechanisms…) are defined in the relevant eligibility criteria within this table. Please note that all ICS may not have been deployed at CPA inclusion stage, the technical requirement will however also be checked during verification, and in case any deployed ICS type will be found not in line with the technical requirement, those ICS will not be counted for emission reduction calculation.	☒ Yes ☐ No	The CME has confirmed that the CPAs would involve only new biomass fuelled ICSs of portable type. This has been confirmed through the review of manufacturer specification sheets of the stove HM4000 and HM5000/04/. Based on the review of the first ICS sales receipt for the CPA, it is confirmed that the receipt includes specific language confirming the stove received by the end-user is new. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
12	In accordance with methodology AMS IIG: Project participants are able to show that non-renewable biomass has been used since 31 December 1989, using survey methods	☒ Yes ☐ No	The compliance to the eligibility criteria has been demonstrated based on the PoA-DD/B02/ section B.3. In section B.3 of the PoA-DD compliance with the methodology requirement from AMS-II.G version 06/B03/ is demonstrated for the host country Honduras and since all the CPAs (CPA002-CPA009) are located in Honduras the methodology and eligibility criterion

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
			requirement is met for the CPAs. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
13	In accordance with "Guidance for determining the occurrence of de-bundling under a Programme of Activities (PoA)"[1], if each independent subsystem/ measures included in the CPA of a PoA is no greater than 1% of the small scale threshold defined by the methodology applied[2], then that CPA of PoA is exempted from performing de-bundling check, i.e. considered as being not a de-bundled component of a large scale activity	☒ Yes ☐ No	The energy saving per improved stove is 0.008354 GWhth/year which is approximately equivalent to 0.005% of the small scale threshold and much less as compared to the 1.8 GWhth/year. The calculation has been demonstrated in the emission reduction spreadsheet/02(d)/. Furthermore, the manufacturer specifications/04/ have been provided for the stoves HM4000 and HM5000. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
14	The CPA will remain under the thermal threshold of 180 GWh_{th}/annum thermal energy savings (threshold as per clarification request SSC_233) throughout the crediting period of the CPA. If a CPA exceeds the applicable limit in any year, the claimable emission reduction shall be capped based on the estimated GHG reductions in the CPA-DD[3]. Please note that all ICS may not have been deployed at CPA inclusion stage, the SSC limit for CPAs can however also be checked during verification	☒ Yes ☐ No	The ICS cap of 21,546 stoves has been provided in the CPA-DD/01(d)/ for each of the CPAs. The CPA shall remain under the thermal threshold of 180 GWh_{th}/annum thermal energy savings throughout the crediting period of the CPA. The number of ICS in operation per year will not exceed the "ICS cap". This relation will vary according to the parameters monitored along the CPA life cycle, for instance ηnew and μy,i Therefore an updated "ICS cap" will be provided at the time of verification according to the monitoring results. The cap of 180 GWh_{th}/annum thermal energy savings per year shall be ensured during the verification. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
15	Additionality is demonstrated using EB68 Annex 27 ""Guidelines on the demonstration of additionality	☒ Yes ☐ No	Based on the review of the evidences are submitted for the means of proof for the eligibility criterion: 1. Project size does not exceed small-scale CDM

[1]According to the "Guidelines on assessment of debundling for SSC project activities, v03 (EB 54, Annex 13, par. 10) for determining the occurrence of debundling 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 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.

[2]Note: a factor of 3 is used for the conversion of electric to thermal installed capacity and hence the energy output is expressed as 180 GWhth/year. This approach was confirmed by the SSC-CDM Working Group with regard to the application of methodology AMS-II.G (Clarification F-CDM-SSCwg ver 01 SSC_233).

[3] As per EB 65, Annex 5, paragraph 83.

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
	of small-scale project activities"," paragraph 2(c) as described in the PoA DD.		thresholds: CPA-DDs/01(d)/ provide an ICS cap of 21,546 operational stoves to comply with the thermal threshold of 180 GWh_{th}/annum thermal energy savings throughout the crediting period of the CPAs. 2. The project activities are solely composed of isolated units where the users of the technology/measure are households or communities or Small and Medium Enterprises (SMEs): The CPAs involve installation of cookstoves composed of isolated units and the users of the technology/measure are households as described in CPA-DD section A.3. The compliance has been confirmed based on the review of the CPA-DD/01(d)/. 3. Where the size of each unit is no larger than 5% of the small-scale CDM thresholds: Based on the review of section A.12 of the CPA-DDs/01(d)/, it is confirmed that the size of each unit is no larger than 9GWh/y. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
16	Each CPA will ensure compliance with the applicability of the methodology and its requirements. Conditions of the applicability of the methodology and its requirements are specified at the PoA level through the assessment of "justification of the choice of the methodology and why it is applicable to the CPAs".	☒ Yes ☐ No	Based on the review of the CPA-DD/01(d), it is confirmed that all the inclusion eligibility criteria named "Requirement of methodology" are met by the CPAs(CPA002-CPA009). **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
17	Target groups have been established by means of the baseline at the PoA level, as described this PoA-DD. In summary, eligible target groups are any of the following: 1. Residential biomass users 2. Commercial biomass users 3. Institutional biomass users Assumptions made at the PoA level for any scope regarding these target groups are deemed valid through all CPAs (i.e. baseline studies, ER	☒ Yes ☐ No	Based on the review of the CPA-DDs/01(d)/, it is confirmed that the target group of the CPAs are residential biomass users. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
	calculation, monitoring plan).		
18	Distribution mechanisms have been specified in the PoA-DD by means of the "General operating and implementing framework of PoA" at the PoA level.	☒ Yes ☐ No	The distribution model involving distribution mechanisms has been provided in the section A.5 of the CPA-DDs/01(d)/. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
19	The Local Stakeholder Consultation is established at the PoA level[4] as described in the PoA-DD. No further actions needed at the CPA level to satisfy the eligibility criteria.	☒ Yes ☐ No	The local stakeholder consultation has been established at the PoA level. The local stakeholders were interviewed by the DOE validation team during the onsite visit and no negative comments were received from the local stakeholders. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
20	The EIA is established at the PoA level as described in the PoA-DD[5]. No further actions needed at the CPA level to satisfy the eligibility criteria.	☒ Yes ☐ No	The EIA has been established at the PoA level. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
21	Sampling of appliances within the CPA must meet the requirements of AMS-II.G and the "Standard on Sampling and Surveys for CDM Projects and Programmes of Activities" (the Sampling Standard). Each CPA will ensure compliance with the framework established for sampling requirements for quantification of parameters not established at the ex-ante and monitoring tasks during the crediting period. Conditions and its requirements are outlined for baselines and monitoring tasks at the PoA-DD.	☒ Yes ☐ No	Based on the review of the CPA-DDs/01(d)/, it is confirmed that the sampling will be undertaken as part of the PoA Sampling Plan and the CPA-DDs/01(d)/ describe how the PoA Sampling Plan is to be applied. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.
22	Each CPA shall demonstrate the baseline parameters that	☒ Yes	Based on the review of the CPA-DDs/01(d)/, it is confirmed that the baseline parameters that are to be

[4]EB55 Annex 38, paragraph 6 (g).

[5] EB55 Annex 38, paragraph 6 (f).

Sl. No.	Eligibility criteria Description	Eligibility check outcome	Assessment by the Validation team
	are to be established at the CPA level have been determined, and shall do so applying the following approaches: a) $B_{old,i}$: as per the approach outlined in PoA-DD, applying Option (a) of (paragraph 19) of AMS-II.G; And, a) η_{old} and/or SC_{old} : η_{old} : When Option 2 of (paragraph 17) of AMS-II.G is applied SC_{old} : When Option 3 of (paragraph 18) of AMS-II.G is applied	☐ No	established at the CPA level have been determined. **Conclusion:** Based on the above assessment, validation team concludes that this eligibility criterion of the PoA is complied with the subject CPAs.

D.5. Estimation of emission reductions or net GHG removals by sinks

D.5.1. Explanation of methodological choices

Means of validation	DR, I
Findings	There are no findings on this section of the validation report.
Conclusion	The equations and choices provided in the applied methodology /B03/ are correctly quoted in the CPA-DDs /01-(d)/. The emission reductions of the CPAs of the PoA would be calculated using the formulae mentioned in the applied methodology AMS-II.G (Version 06.0) /B03/. The parameters and equations presented in the PoA-DD /B02/, CPA-DDs /01-(d)/ and ER spread-sheets /02-(d)/ have been compared with the information and requirements presented in the methodology /B03/. Validation team based on the review of CPA-DDs /01-(d)/ and the ER spread sheets /02-(d)/, confirms that the formula are correctly presented for the determination of emission reductions at the CPA level.

D.5.2. Data and parameters fixed ex ante

Means of validation	DR, I
Findings	There are no findings on this section of the validation report.
Conclusion	Ex-ante parameters provided under section D.6.2 of the CPA-DDs /01-(d)/ are found to be appropriate and in line with the applied methodology AMS-II.G (version 06.0) /B03/. Ex-ante parameters of the proposed CPAs are as follows:

Parameter	Description	Verified Value	Verified Source
$B_{old,i}$	Quantity of woody biomass that would be used in the absence of the project activity for Residential users.	3.10 tonnes / year / project device for Residential biomass user stoves used for residential purposes	The value is based on historical data as reported in the "Energy Efficiency in Central America: Progress and Action towards the fulfilment of Goals of the Central American

				Sustainable Energy Strategy" by Victor Hugo Ventura and Ryan Carvalho, published by UN-CEPAL, 2014 report/12/. The values are based on the baseline survey study report. The UN CEPAL, 2014 report/12/ gives the value of Quantity of biomass consumed per household and not per project device. Thus, it is assumed ex-ante that there is only one project stove being used per household for calculating $B_{old,i}$.	
	η_{old}	Efficiency of the system being replaced as part of the SSC-CPA	10 %	The values were sourced from baseline study reports/11/. The CPAs shall use a default value of 10 % (0.1) because the systems being replaced are either three stone fire stoves or conventional systems with no improved combustion air supply or flue gas ventilation system. The type of stoves in the baseline are traditional stoves and during the site visit by the validation team usage of traditional 3 stone firewood stoves was found to be prevalent across Honduras. The value is based on the para 17 of the methodology AMS-II.G, version 06/B03/. The validation team deemed the value to be appropriate and correct.	
	LE_y	Leakage	0	Default value of 0.95 as per para 30 of the AMS-II.G. version 06.0/B03/ has been used for gross	

				adjustment factor/leakage adjustment factor.
$NCV_{biomass}$	Net calorific value for biomass	0.015 TJ/tonne	Default value as per AMS-II.G. (Version 06.0) /B03/.	
$EF_{projected\_fossil\_fuel}$	Emission factor for the substitution of non-renewable woody biomass by similar consumers.	81.6 tCO_2/TJ	Default value as per AMS-II.G. (Version 06.0) /B03/.	
$f_{NRB,y}$	Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable	0.8382	The value is fixed ex-ante at the PoA level/B02/. The value has been determined based on Envirofit International Ltd: NRB Study Honduras-, version03 dated 22 July 2013.	

D.5.3. Ex ante calculation of emission reductions or net GHG removals by sinks

Means of validation	DR, I
Findings	CL 04 has been raised in this regard.
Conclusion	The equations and choices provided in the applied methodology /B03/ are correctly quoted in the CPA-DDs /01-(d)/. The emission reductions due to the CPAs have been calculated using the formulae mentioned in the applied methodology AMS-II.G (Version 06.0) /B03/ and the registered PoA-DD /B02/. The total ex ante emission reductions resulting from each of the CPAs (CPA002-CPA009) for the entire first renewable crediting period of seven years is estimated to be 295,554 tCO_2e and the average annual emission reductions are 42,222 tCO_2e. The validation team reviewed the ER spread-sheets calculations /02-(d)/ and confirms the same to be correct. The validation team conducted assessment of emission reductions calculation. The parameters and equations presented in the CPA-DDs /01-(d)/, as well as other applicable documents, have been compared with the information stipulated in the methodology /B03/. The assumptions and data (both ex-ante and ex-post) used to determine the emission reductions are described in the CPA-DDs /01-(d)/ and all the sources have been checked and confirmed by the validation team. Based on the reviewed information, it can be confirmed that the sources used are correctly quoted and interpreted in the CPA-DDs /01-(d)/. The values in the CPA-DDs /01-(d)/ are considered to be reasonable based on the documentation and references reviewed, as well as, the result of the interviews. The baseline methodology has been correctly applied according to the requirements.

D.5.4. Summary of ex ante estimates of emission reductions or net GHG removals by sinks

Means of validation	DR, I
Findings	-
Conclusion	The total ex ante emission reductions resulting from each of the CPAs (CPA002-CPA009) for the entire first renewable crediting period of seven years is estimated to be 295,554 tCO_2e and the average annual emission reductions are 42,222 tCO_2e. The validation team reviewed the ER spread-sheets calculations /02-(d)/ and confirms the same to be correct.

D.6. Application of the monitoring methodology and description of the monitoring plan

D.6.1. Data and parameters to be monitored

Means of validation	DR, I
Findings	CL05 and CL06 has been raised in this regard and have been resolved.
Conclusion	The monitoring plan presented in the CPA-DDs /01-(d)/ complies with the requirements of the PoA-DD /B02/ and the applied monitoring methodology /B03/. The validation team has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found. The validation team through document review and interviews with the relevant stakeholders has reviewed the procedures. The information provided has allowed the validation team to confirm that the proposed monitoring plan is feasible within the project design. The relevant points of monitoring plan have been discussed with the CME. The parameters /01-(d)/, /B02/ that are to be monitored ex-post are:

Parameter	Description	Frequency
$N_{y,i,a}$	Number of project devices of type i and age a that are operating in year y	At least once every two years.
$\eta_{new,i,a}$	Efficiency of the device of type i and age a being deployed as part of the project activity	Annually
$\mu_{y,i}$	number of days of utilization of the project device during the year 'y'	At minimum every two years

In summary, the parameters determined ex-post have been presented correctly according to the requirements and are considered in accordance with the applied methodology /B03/ and the registered PoA-DD /B02/. This is in conformance with the requirements of §142(b) of CDM VVS, version 09/B01-1/.

D.6.2. Description of the monitoring plan

Means of validation	DR, I
Findings	--
Conclusion	The monitoring plan presented in the CPA-DDs /01-(d)/ comply with the requirements of the PoA-DD /B02/ and the applied monitoring methodology, AMS-II.G version 06 /B03/. The validation team of CCIPL has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found. The validation team through document review and interviews with the relevant stakeholders has reviewed the procedures. The information provided has allowed the validation team to confirm that the proposed monitoring plan is feasible within the project design. The relevant points of monitoring plan have been discussed with the CME. The responsibilities and institutional arrangements for data collection and archiving have been clearly provided. The information provided in the CPA-DDs /01-(d)/ could be confirmed based on the interviews and also through the submitted documentary evidences covering all requirements as stated in section D.7.1 and D.7.2 of CPA-DDs /01-(d)/. Based on the same, it can be confirmed that the CME and the DO/CPA implementer will be able to implement the monitoring plan and the achieved emission reductions can be reported ex-post and verified.

Appendix 1. Abbreviations

Abbreviations	Full Texts
BE	Baseline Emission
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CER	Certified Emission Reduction
CPA	Component Project Activity
CPA-DD	Component Project Activity Design Document
CL	Clarification Request
CME	Co-ordinating or Managing Entity
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
COP/MOP	Conference of Parties/ Meeting of Parties
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EB	Executive Board
EIA	Environmental Impact Assessment
ER	Emission Reduction
FAR	Forward Action Request
FUNDEIH	Fundacion para el Desarrollo Integral de Honduras
GHG	Greenhouse Gas
GWh	Giga Watt Hours
I	Interview
IPCC	Intergovernmental Panel on Climate Change
kW	Kilo Watt
kWh	Kilo Watt Hours
LEy	Leakage
LSC	Local Stakeholder Consultation
MoV	Means of Verification
MoC	Modalities of Communications
MW	Mega Watt
MWh	Mega Watt Hours
NCV	Net Calorific Value
NGO	Non-Government Organisation
NOx	Nitrogen Oxides
NRB	Non-renewable Biomass
ODA	Official Development Assistance
OSV	On Site Visit
PE	Project Emission
PoA	Programme of Activities
PoA-DD	Programme of Activities design document
PP	Project Participant
SD	Sustainable Development
t	Tonne
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team member and technical reviewer

Carbon Check (India) Private Ltd.

Anubhav Dimri

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	☒	Team Leader	☒	Technical reviewer	☒
Verifier	☒	Technical Expert	☒	Local Expert[1]	☒

In the following Technical Areas:

TA 1.1	☒	TA 3.1	☒	TA 5.2	☐	TA 9.2	☐	TA 13.2	☐
TA 1.2	☒	TA 4.1	☐	TA 8.1	☐	TA 10.1	☐	TA 14.1	☐
TA 2.1	☐	TA 5.1	☐	TA 9.1	☐	TA 13.1	☒		

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
23/12/2016

Valid Till
22/12/2017

Revision History of the Document

26/12/2014	Initial Adoption
24/12/2015	Annual Revision
20/01/2016	Interim Revision for office address change
23/12/2016	Annual Revision

[1]India, South Africa

CARBON CHECK (INDIA) PRIVATE LIMITED
Registered in India: U74930DL2012PTC232495
Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005
Corporate off: G 49 & 50, 3rd Floor, Sector – 3, NOIDA (Uttar Pradesh) – 201301
Tel: +91 120 4373114 / +91 120 2520027 | URL: www.carboncheck.co.in
e-mail: info@carboncheck.co.in

Carbon Check (India) Private Ltd.

Vikash Kumar Singh

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	☒	Team Leader	☒	Technical reviewer	☒		
Verifier	☒	Technical Expert	☒	Local Expert[1]	☒		

In the following Technical Areas:

TA 1.1	☐	TA 3.1	☒	TA 5.2	☐	TA 9.2	☐	TA 13.2	☒
TA 1.2	☒	TA 4.1	☒	TA 8.1	☐	TA 10.1	☐	TA 14.1	☐
TA 2.1	☐	TA 5.1	☐	TA 9.1	☐	TA 13.1	☒		

Mr. Amit Anand
CEO

Date of Approval
23/12/2016

Valid Till
22/12/2017

Revision History of the Document

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Corporate off: G 49 & 50, 3rd Floor, Sector – 3, NOIDA (Uttar Pradesh) – 201301
Tel: +91 120 4373114 / +91 120 2520027 | URL: www.carboncheck.co.in
e-mail: info@carboncheck.co.in

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	Envirofit International Limited	a) First CPA-DDs (for CPA002, CPA003, CPA004, CPA005, CPA006, CPA007, CPA008 and CPA 009) b) Second CPA-DDs (for CPA002, CPA003, CPA004, CPA005, CPA006, CPA007, CPA008 and CPA 009) c) Third CPA-DDs (for CPA002, CPA003, CPA004, CPA005, CPA006, CPA007, CPA008 and CPA 009)	Version 01, dated 07/11/2016 Version 01.1, dated 13/12/2016 Version 02, dated 27/12/2016	Envirofit International Limited
		d) Final CPA-DDs (for CPA002, CPA003, CPA004, CPA005, CPA006, CPA007, CPA008 and CPA 009)	Version 02.1, dated 16/01/2017	Envirofit International Limited
/02/	Envirofit International Limited	a) Emission reduction calculation spread-sheet corresponding to /01/(a) b) Emission reduction calculation spread-sheet corresponding to /01/(b) c) Emission reduction calculation spread-sheet corresponding to /01/(c)	--	Envirofit International Limited
		d) Emission reduction calculation spread-sheet corresponding to /01/(d)	--	Envirofit International Limited
/03/	Energy Institute (Colorado State University)	Stove efficiency certificates for stoves: (a) HM 4000 Stove efficiency Certificate Dated 14/11/2015 (b) HM 5000 Stove efficiency: (i) Manufacturer specification certificate (ii) WBT test record sheets for WBT tests and Stove efficiency calculator for WBT tests (iii) Stove testing procedure (Powerhouse Energy Campus, Colorado State University) (iv) Letter from Colorado State University approving the test results dated 15/01/2017	--	Envirofit International Limited
/04/	Envirofit International Limited	Manufacturer Specification certificate for stoves: 1. HM 4000 2. HM 5000	--	Envirofit International Limited
/05/	Envirofit International Limited	Sales database (CPA inclusion database)	--	Envirofit International Limited
/06/	Envirofit International Limited/ FUNDEIH	Agreement between CME (Envirofit International Limited) and DO (FUNDEIH)	Dated 04/01/2016	Envirofit International Limited
/07/	Envirofit International Limited	Sample sales agreements with the end users	--	Envirofit International Limited
/08/	Envirofit International Limited	Declaration of Non-Use of Official Development Assistance by the CME	Dated 08/09/2013	Envirofit International Limited
/09/	Envirofit International Limited	Screenshot for registered projects in Honduras	--	Envirofit International Limited
/10/	Envirofit International Limited	Proof of start date: 1. CPA002 – Stove ID EP1M049928 2. CPA003 – Stove ID EP1M026350 3. CPA004 – Stove ID EP1A035538 4. CPA005 – Stove ID EPIA040394 5. CPA006 – Stove ID EPHN094512 6. CPA007 (Implementation Schedule) 7. CPA008 (Implementation Schedule) 8. CPA009 (Implementation Schedule)	--	Envirofit International Limited
/11/	Envirofit International Limited	Baseline survey reports 1. Programa de aumento del aprovechamiento de fuentes renovables de energía (srep) Plan de inversiones de Honduras	--	SREP / OLADE/ Aprovecho / Zamorano

		2. Olade: proyecto apoyo a la matriz de acciones para la integración y desarrollo energético de centroamérica (2010) 3. Aprovecho: Proposed Benchmarks For Wood Burning Cooking Stoves (April 2008) 4. Zamorano Improved Stove Certification Center: Evaluation of seven improved efficiency stoves in the laboratory and local communities		Improved Stove Certification Center
/12/	Envirofit International Limited	CEPAL Report: Energy Efficiency in Central America: Progress and Action towards the fulfilment of Goals of the Central American Sustainable Energy Strategy	August 2014	CEPAL
/13/	Envirofit International Limited	Determination of NRB, Honduras (PoA-DD Appendix 6)	--	Envirofit International Limited
/B01/	UNFCCC	1. CDM Validation and Verification Standard (Version 09.0). 2. CDM Project Standard (Version 09.0) 3. CDM Project Cycle Procedure (Version 09.0)	http://cdm.unfccc.int/	Others
/B02/	UNFCCC	PoA-DD, version 5, 16/01/2015 and the corresponding validation report for the registered PoA "Improved Cookstoves Program in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento"", having UNFCCC Ref. No. 9176	http://cdm.unfccc.int/	Others
/B03/	UNFCCC	AMS-II.G. Energy efficiency measures in thermal applications of non-renewable biomass (version 06.0)	http://cdm.unfccc.int/	Others
/B04/	UNFCCC	Guidelines on the demonstration of additionality of small scale project activities (Version 09.0); Annex 27, EB 68	http://cdm.unfccc.int/	Others
/B05/	UNFCCC	PoA Specific guidelines / standards / Forms published by UNFCCC: 1. Guideline: Sampling and surveys for CDM project activities and programmes of activities (Version 03.0) 2. Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities (Version 03.0) 3. Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities (Version 03.0) 4. Instructions for filling out the component project design document form for small-scale CDM component project activities (Version 05.0) 5. Component project activity design document form for small-scale CDM component project activities (CDM-SSC-CPA-DD-FORM), (Version 05.0) 6. Guidelines on assessment of debundling for SSC project activities (Version 03.0); Annex 13, EB 54	http://cdm.unfccc.int/	Others
/B06/	-	Websites: 1. www.unfccc.int 2. http://www.ipcc.ch 3. https://maps.google.hn/ 4. http://www.pciaonline.org/testing	-	Others

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CL from this validation

CL ID	01	**Section no.**	D.1	**Date:** 26/12/2016
Description of CL				

The version of the methodology as provided on the cover page of the CPA-DDs is inconsistent with the section D.1 of the CPA-DD. The sectoral scope linked to the applied methodology as stated on cover page is 3.0. There is no such sectoral scope/technical area.
CME response **Date:** 27/12/22016
There was a typographical error on the cover page of the CPA-DDs. The cover page of the CPA-DDs has now been revised to mention the version of applied methodology as version 6.0. This is now consistent with section D.1 of the CPA-DD. Please refer to the sectoral scopes at http://cdm.unfccc.int/DOE/scopes.html#3. As per the same the sectoral scope 3 refers to Energy Demand and the methodology AMS II.G. is listed against the same. The cover page of the CPA-DDs have been revised to mention the sectoral scope as 3 instead of 3.0
Documentation provided by CME
CPA-DD CPA 02 version 2.0 dated 27/12/2016 *CPA-DD CPA 03 version 2.0 dated 27/12/2016* *CPA-DD CPA 04 version 2.0 dated 27/12/2016* *CPA-DD CPA 05 version 2.0 dated 27/12/2016* *CPA-DD CPA 06 version 2.0 dated 27/12/2016* *CPA-DD CPA 07 version 2.0 dated 27/12/2016* *CPA-DD CPA 08 version 2.0 dated 27/12/2016* *CPA-DD CPA 09 version 2.0 dated 27/12/2016*
DOE assessment **Date:** 02/01/2017
The version of the methodology has been revised on the cover page of the CPA-DDs and is now consistent with the CPA-DD and the registered PoA-DD. The sectoral scope stated on the cover page of the CPA-DD has been revised and refers sectoral scope 3: Energy Demand.

CL ID	02	**Section no.**	D.3	**Date:** 26/12/2016
Description of CL				
In section D.4 of the CPA-DD, it is stated that “As per paragraph 10…”. However, paragraph 10 of the methodology does not refer to the baseline scenario.				
CME response				**Date:** 27/12/2016
This was typographical error in the CPA-DD. Section D.4 of the revised CPA-DD now mentions the correct paragraph number from AMS II.G. version 6.0 as paragraph 12.				
Documentation provided by CME				
CPA-DD CPA 02 version 2.0 dated 27/12/2016 *CPA-DD CPA 03 version 2.0 dated 27/12/2016* *CPA-DD CPA 04 version 2.0 dated 27/12/2016* *CPA-DD CPA 05 version 2.0 dated 27/12/2016* *CPA-DD CPA 06 version 2.0 dated 27/12/2016* *CPA-DD CPA 07 version 2.0 dated 27/12/2016* *CPA-DD CPA 08 version 2.0 dated 27/12/2016* *CPA-DD CPA 09 version 2.0 dated 27/12/2016*				
DOE assessment				**Date:** 02/01/2017
The paragraph number referenced in the section D.4 of the CPA-DD has been corrected and the referenced paragraph from the methodology correctly refers to the correct paragraph.				

CL ID	03	**Section no.**	D.4	**Date:** 26/12/2016
Description of CL				
For eligibility criterion 2, the means of proof requires CPA assignment and user details in the CPA sales database. However, the CPA assignment could not be confirmed by the DOE. For eligibility criterion 3, the screenshot of the UNFCCC website does not provide PoAs and also does not reflect the latest list of projects. For eligibility criterion 4, It is stated in the CPA-DD that the CME is responsible for implementation of this CPA. However, FUNDEIH has been identified as a DO for the CPAs. It needs to be clarified why the contractual provisions between CME and DO has not been referred as a means of proof for the eligibility criterion 4.				
CME response				**Date:** 27/12/2016

For eligibility criterion#2, the Total Sales records with CPA number assigned to each stove is being submitted.
For eligibility criterion#3, The assessment of PA/PoAs registered in Honduras (date of access of websites 27 Dec 2016) is as follows:

1. There are 29 CDM project activities registered in Honduras. None of the registered projects involve improved cook stove as technology / measure (visit webpage http://cdm.unfccc.int/Projects/projsearch.html and search after selecting Honduras as host country). A snapshot of the search results is being submitted.
2. There are 3 CDM PoA registered on Honduras including PoA 9176. The other PoAs don't involve improved cook stove as technology/ measure. (http://cdm.unfccc.int/ProgrammeOfActivities/registered.html). A snapshot of registered PoAs under CDM is being submitted.
3. In Gold Standard, there are 16 PA/PoAs registered in Honduras. 4 out of these (including PoA 9176) involve improved cook-stoves as technology / measure. However, the stove models included in the concerned CPAs are not included in any of these other 3 PA / PoAs (visit webpage https://mer.markit.com/br-reg/public/index.jsp?entity=project&name=Honduras&standardId=&unitClass=&sort=project_name&dir=ASC&start=0 and search for Honduras in keywords search). A snapshot of search results is being submitted.
4. In VCS, there are only 4 projects registered in Honduras and none involves improved cook stoves (visit http://www.vcsprojectdatabase.org/#/projects and select Honduras in search options). A snapshot of search result is being submitted
5. Lastly, but not the least, Envirofit confirms that stoves included in the concerned CPAs (as listed in the Installation database) are not a part of any other regulatory / voluntary project / PoA in any other carbon offset program.

For eligibility criterion 4, the CPA-DD has been revised to mention FUNDEIH as the DO. The agreement between Envirofit (CME) and FUNDEIH (DO) is being submitted to substantiate conformance with inclusion eligibility criteria #4.

Documentation provided by CME

CPA inclusion database 7 Nov 2016 version 2.0
Snapshot of registered CDM projects in Honduras
Snapshot of registered CDM PoAs in Honduras
Snapshot of registered GS projects / PoAs in Honduras
Snapshot of registered VCS projects in Honduras

CPA-DD CPA 02 version 2.0 dated 27/12/2016
CPA-DD CPA 03 version 2.0 dated 27/12/2016
CPA-DD CPA 04 version 2.0 dated 27/12/2016
CPA-DD CPA 05 version 2.0 dated 27/12/2016
CPA-DD CPA 06 version 2.0 dated 27/12/2016
CPA-DD CPA 07 version 2.0 dated 27/12/2016
CPA-DD CPA 08 version 2.0 dated 27/12/2016
CPA-DD CPA 09 version 2.0 dated 27/12/2016
Agreement between FUNDEIH and Envirofit

DOE assessment	**Date:** 02/01/2017

The Total sales record has been provided to the validation team as a supporting evidence for eligibility criterion 2 and the sales record indicates the CPA number for each of the stove distributed in the CPAs.
For eligibility criterion 3, CME has provided latest screenshots for registered CDM projects/PoAs and Gold Standard and VCS projects to confirm that the CPA is exclusively bound to the PoA.
In response to eligibility criterion 4, CME has revised the justification and provided the agreement between the CME and the DO, FUNDEIH. The agreement between CME and DO confirms that the DO is aware and agrees to subscribe to the PoA.

CL ID	04	**Section no.**	D.5.3	**Date:** 26/12/2016

Description of CL

For CPA008 and CPA009, the value of the parameter $\mu_{y,i}$ has been taken as 365 even though the start date of the CPAs does not start at the beginning of the year.
Furthermore, the start date of crediting period of CPA008 and CPA009 is earlier than the start date of CPAs.

CME response	**Date:** 27/12/2016

The value of parameter $\mu_{y,l}$ is taken as 365 as it is expected that the stove will remain operational throughout the year (without simultaneous use of baseline stove). This is in line with the equation 3 and paragraph 22-24 of the methodology.
The fraction of year for which credits should be claimed for a given stove (depending upon its date of installation, start date of crediting period and the length of the monitoring period) shall be determined as $stove_{year}$ for each stove in the ER calculations ex-post.
The start date of crediting period of CPA008 and CPA009 has been revised accordingly.

Documentation provided by CME

CPA-DD CPA 08 version 2.0 dated 27/12/2016
CPA-DD CPA 09 version 2.0 dated 27/12/2016

DOE assessment	**Date:** 02/01/2017

CME has clarified that the value of the parameter $\mu_{y,l}$ has been taken as 365 as it is expected that the stove will remain operational throughout the year and furthermore, it is clarified that the fraction of year for which credits should be claimed for a given stove is determined as $stove_{year}$.
The start date of the crediting period for CPAs CPA007, CPA008 and CPA009 have been revised accordingly.

CL ID	05	**Section no.**	D.6.1	**Date:** 26/12/2016

Description of CL

Parameter $B_{y=1,new,i,survey}$ has not been listed in section D.7.1 of the CPA-DD even though option 2 is applicable to the CPAs.

CME response	**Date:** 27/12/2016

The CPA uses equation 5 from option 2 of the methodology to calculate the $B_{y,savings,i,a}$ instead of equation 6. Hence, parameter $B_{y=1,new,i,survey}$ has not been listed in section D.7.1 of the CPA-DD

Documentation provided by CME

DOE assessment	**Date:** 02/01/2017

CME has clarified that the parameter $B_{y=1,new,i,survey}$ has not been listed as it is not applicable to the type of CPAs as the CPA uses equation 5 from option 2 of the methodology to calculate the $B_{y,savings,i,a}$.

CL ID	06	**Section no.**	D.6.1	**Date:** 02/01/2017

Description of CL

The ex-ante value for the stove HM5000 in parameter $\eta_{new,i,a}$ has been provided as 28.9 %. Furthermore, the specifications for the stove available on the Envirofit website (http://envirofit.org/product/cookstoves/saverpro-griddle/) also states the efficiency value as 24.9%. It needs to be clarified how the reported value 28.9 % for stove HM5000 is appropriate for the reported CPAs.

CME response	**Date :** 16/01/2017

The reported thermal efficiency of HM5000 in section D.7.1 of CPA-DDs (28.9%) is based on the series of efficiency tests conducted by the manufacturer in 2016 (15 Jan 2016 – 19 Jan 2016, total 9 stoves tested for cold start and hot start). These tests were conducted using standard testing procedure issued by Colorado State University (a GACC approved stove testing centre operating in Honduras and India, hereinafter referred as CSU). Further, the results of these tests have been reviewed by the CSU and approved as technically correct and devoid of any errors.
The value of efficiency as specified on the website (24.9%) was based on a certificate issued by CSU dated September 2013 based on tests conducted in June 2013. Further, CSU has clarified that these tests included only cold start tests and hence do not correctly represent the actual operating efficiency (which should be average of cold start and hot start thermal efficiency). Thus, this value (24.9%) being more than three years old data and based only on cold start test has not been used in light of availability of more recent and accurate data (28.9%).
Lastly $\eta_{new,i,a}$ is a monitoring parameter and ex-post emission reductions shall be based on the actual monitored WBT results rather than values reported in section 'D.7.1.Data and parameters to be monitored' of the CPA-DD, ex-ante.

Documentation provided by CME

Stove testing procedure by Colorado State University
WBT test record sheets for WBT tests
Stove efficiency calculator for WBT tests
Letter from Colorado State University approving the test results

DOE assessment	**Date:** 17/01/2017

Based on the letter from Colorado State University providing the approval to the latest set of results for the parameter $\eta_{new,i,a}$ and clarification that the values available on the website (24.9 %) were obtained based on the cold start test alone and had not included hot start and thus the variation in the results. The latest results have taken into account results from hot start and cold start and in accordance with the section 4.5 of the WBT protocol average of the cold start efficiency and hot start efficiency is reported. This is deemed acceptable to the validation team.
The testing procedure provided by the testing agency Powerhouse Energy Campus, Colorado State University, WBT test records, efficiency calculation sheets for the WBT tests, and the letter from Energy Institute, Colorado State University has been checked by the validation team to confirm that the information provided is appropriate and thus a value of 28.9 % for the parameter $\eta_{new,i,a}$ has been accepted by the validation team. The parameter is an ex-post parameter and thus the actual value of the parameter shall be checked at the time of verification by the verifying DOE.

Table 2. CAR from this validation

CAR ID	01	**Section No.**	A.3	**Date:** 26/12/2016
Description of CAR				
In accordance with the para 87 of the Project Standard version 09, SSC-CPA-DD for the CPAs have not been completed using the appropriate form for small-scale CPA (CDM-SSC-CPA-DD-FORM). In accordance with the para 89 of the Project Standard version 09, SSC-CPA-DD does not comply with the instruction text requirements: 1. Unique Identifier of the CPA has not been provided clearly in section A.2 of the CPA-DD. 2. In section A.5 of the CPA-DD, a description of how the technologies, and measures and know-how to be used are transferred to the host Party has not been indicated. 3. In section A.7 of the CPA-DD, GPS coordinates have not been provided in decimal system. 4. Section D.2 of the CPA-DD has not been completed in accordance with the instruction text requirement: a. Demonstrate how the applicability conditions are met in accordance with the PoA, the selected methodology(ies) and, where applicable, the selected standardized baseline(s). b. Demonstrate that the CPA qualifies as Type I, II, and/or III during every year of the crediting period in accordance with applicable provisions for project activity eligibility in the Project standard. 5. Section D.3 of the CPA-DD has not been completed in accordance with the instruction text requirement: a. Provide proof that the CPA is located within the geographical boundary of the proposed or registered PoA. 6. Section D.6.1 of the CPA-DD does not adhere to the generic CPA template and instruction text requirement as per the CPA-DD format. 7. In section D.6.2 of the CPA-DD, for parameter LE_y and $f_{NRB,y}$, "Choice of data or Measurement methods and procedures" has not been provided. 8. In section D.6.4 of the CPA-DD, the total emission reductions have not been presented in an internationally recognizable format. 9. In section E of the CPA-DD the status of approval and authorization has not been provided.				
CME response				**Date:** 27/12/2016
The CPA-DDs have been revised to follow the correct CDM-SSC-CPA-DD-FORM. The CPA-DDs are now in compliance with para 89 of the Project Standard version 09, SSC-CPA-DD as follows: 1. The CPA number for each CPA serves as a unique identifier for the CPA. The CPA unique identifier has therefore been also included in the title of the CPA as specified in section A.2 of the CPA-DDs. 2. Section A.5 of the CPA-DD has been revised to include a description of technology transfer to the host party. 3. Section A.7 of the CPA-DD has been revised to mention GPS coordinates in decimal system. 4. Section D.2 of the CPA-DD has been completed in accordance with the instruction text requirement as follows: a. Refer criteria #9, #10, #11 and #12 which cover the applicability criteria set against AMS II.G. version 6.0. b. Please refer eligibility criteria #14 which demonstrates the compliance against Type II category requirement of Small Scale projects. 5. Section D.3 of the CPA-DD has not been completed in accordance with the instruction text requirement: a. Section D.3 has been revised to mention that any stove installed outside Honduras shall not be a part of the CPA. The total sales records confirm the same. 6. Section D.6.1 of the CPA-DD has been revised accordingly.				

7. In section D.6.2 of the CPA-DD, for parameter LE_y and $f_{NRB,y}$, "Choice of data or Measurement methods and procedures" has now been provided in revised CPA-DD.
8. In section D.6.4 of the CPA-DD, the total emission reductions have now been presented in an internationally recognizable format.
9. In section E of the CPA-DD has been revised to include the status of approval and authorization has not been provided.

Documentation provided by CME

Efficiency test certificate for HM4000 issued by Engines and Energy Conversion Laboratory at Colorado State University

Manufacturer specifications on efficiency based on water boiling test (WBTs) for HM 5000

CPA-DD CPA 02 version 2.0 dated 27/12/2016
CPA-DD CPA 03 version 2.0 dated 27/12/2016
CPA-DD CPA 04 version 2.0 dated 27/12/2016
CPA-DD CPA 05 version 2.0 dated 27/12/2016
CPA-DD CPA 06 version 2.0 dated 27/12/2016
CPA-DD CPA 07 version 2.0 dated 27/12/2016
CPA-DD CPA 08 version 2.0 dated 27/12/2016
CPA-DD CPA 09 version 2.0 dated 27/12/2016

DOE assessment	**Date:** 02/01/2017

1. CME has clarified that the CPA number such as CPA No 002, CPA No 003 and so on shall be the unique identified for the CPAs. As clarified it is part of the title.
2. CME has clarified that the CPAs do not result in any transfer of technology / knowledge to the host party from an Annex 1 party.
3. The GPS coordinates for the host country have been provided in the decimal system.
4. a) The compliance to the methodology conditions has not been demonstrated in section D.2 of the CPA-DD with appropriate references to the applicable eligibility criterion. CAR01.4 remains open.
5. a) The details on the geographical boundary has been provided in the section B.3 of the CPA-DD.
6. Details of the CPA have been provided in the section D.6.1 of the CPA-DD with the applicable target users and equation options.
7. The details on "Choice of data or Measurement methods and procedures" has been provided for parameter LE_y and $f_{NRB,y}$, in section D.6.2 of the CPA-DD.
8. The value of the total emission reductions has been rectified in section D.6.4 of the CPA-DD.
9. The details on the host country approval and authorization have been provided in section E of the CPA-DD.

CME response	**Date :** 16/01/2017

4. a) Section D.2 of the CPA-DDs has been accordingly revised to refer to section D.6 of the CPA-DD which discusses the compliance to each applicability criteria of the methodology in detail.

Documentation provided by CME

CPA-DD CPA 02 version 2.1 dated 16/01/2017
CPA-DD CPA 03 version 2.1 dated 16/01/2017
CPA-DD CPA 04 version 2.1 dated 16/01/2017
CPA-DD CPA 05 version 2.1 dated 16/01/2017
CPA-DD CPA 06 version 2.1 dated 16/01/2017
CPA-DD CPA 07 version 2.1 dated 16/01/2017
CPA-DD CPA 08 version 2.1 dated 16/01/2017
CPA-DD CPA 09 version 2.1 dated 16/01/2017

DOE assessment	**Date:** 17/01/2017

4.a) The applicability conditions of the methodology AMS-II.G version 6 has been justified in the section D.2 of the CPA-DD and appropriate references to the eligibility criteria provided for justification of the applicability conditions.

CAR ID	02	**Section No.**	A.4	**Date:** 26/12/2016
Description of CAR				

Generic CPA title, identification/reference number has not been provided in the CPA-DDs as required for section A.2 of the validation report.
The proof of start date for the CPAs (CPA007, CPA008, CPA009) has not been provided to the validation team.
The start date of the CPA002 does not match with the sales receipt provided as evidence.

CME response | **Date:** 27/12/2016

Generic CPA title, identification/reference number has been added in the CPA-DDs
The proposed implementation plan for implementation of CPA 007, CPA008 and CPA009 is being submitted to substantiate the start date of concerned CPA.
The start date of the CPA002 has been corrected in the CPA -DD to match the originals sales receipt provided as evidence.

Documentation provided by CME

CPA-DD CPA 02 version 2.0 dated 27/12/2016
CPA-DD CPA 03 version 2.0 dated 27/12/2016
CPA-DD CPA 04 version 2.0 dated 27/12/2016
CPA-DD CPA 05 version 2.0 dated 27/12/2016
CPA-DD CPA 06 version 2.0 dated 27/12/2016
CPA-DD CPA 07 version 2.0 dated 27/12/2016
CPA-DD CPA 08 version 2.0 dated 27/12/2016
CPA-DD CPA 09 version 2.0 dated 27/12/2016
CPA inclusion database 7 Nov 2016 version 2.0 including the proposed Implementation Plan for CPA07-09

DOE assessment | **Date:** 02/01/2017

The generic CPA title and other details have been provided in the section A.2 of the CPA-DDs.
The proposed implementation plan for the implementation of CPA007, CPA008 and CPA009 has been provided as a workbook of CPA sales/inclusion database.
The start date of the CPA002 has been corrected to 09/01/2015 and it matches with the sales receipt as the proof of start date of the CPA.

CAR ID	03	**Section No.**	D.4	**Date:** 26/12/2016

Description of CAR

For eligibility criterion 9, as means of proof compliance with the technological requirements of AMS II-G version 6 has not been described in the section D.2 of the specific CPA-DDs.
For eligibility criterion 10, it is not stated in the justification if the ICS disseminated in the CPA will be single pot, multi-pot or in-situ cookstoves.
For eligibility criterion 11, Specification of stove type and compliance with the technological requirements of AMS II G has not been described in the specific CPA-DDs. Furthermore, section A.3 of the CPA-DDs does not provide clearly types below will be disseminated: Biomass fuelled ICS, Newly operational ICS, Either fix/portable operation.
For eligibility criterion 13, it is stated that "*The per stove energy savings per annum is less than 9GWhth as shown in ex-ante ER calculator.*" However, the means of proof requirement is "*2. CPA-DD to show energy saved by an ICS is less than 1.8GWh/year*".
For eligibility criterion 21, Appendix 3 has been referred in the justification. However, Appendix 3 of the CPA-DD does not relate to the sampling plan.

CME response | **Date:** 27/12/2016

For eligibility criterion 9, means of proof compliance with the technological requirements of AMS II-G version 6 has now been described in the section D.2 of the revised CPA-DDs.
For eligibility criterion 10, it is now stated in CPA-DDs that the ICS disseminated in the CPAs are multi-pot portable cook-stoves.
For eligibility criterion 11, specification sheet for stove type and compliance with the technological requirements of AMS II G has now been described in the revised CPA-DDs. Section A.3 of the CPA-DDs have been revised accordingly.
For eligibility criterion 13, the typographical error has been revised
For eligibility criterion 21, typographical error has been revised to refer to section D.7.2 instead of appendix 3 now.

Documentation provided by CME

CPA-DD CPA 02 version 2.0 dated 27/12/2016
CPA-DD CPA 03 version 2.0 dated 27/12/2016
CPA-DD CPA 04 version 2.0 dated 27/12/2016
CPA-DD CPA 05 version 2.0 dated 27/12/2016
CPA-DD CPA 06 version 2.0 dated 27/12/2016
CPA-DD CPA 07 version 2.0 dated 27/12/2016
CPA-DD CPA 08 version 2.0 dated 27/12/2016

CPA-DD CPA 09 version 2.0 dated 27/12/2016
DOE assessment **Date:** 02/01/2017
For eligibility criterion 9, means of compliance with the technological requirements of AMS-II.G has not been described in the section D.2 of the CPA-DD. CAR 03.1 remains open. For eligibility criterion 10, the justification on the type of ICS disseminated in the CPAs has been provided. Validation team confirmed during the site visit that the stoves HM4000 and HM5000 are multi-pot portable cook-stoves. For eligibility criterion 11, specification sheet for stove types has been provided and clarified that the biomass fueled newly operation ICS shall be distributed in the CPAs. For eligibility criterion 13, the sentence has been rectified. For eligibility criterion 21, the reference has been rectified in the CPA-DD.
CME response **Date:** 16/01/2017
3. 1) Section D.2 of the CPA-DDs has been accordingly revised to refer to section D.6 of the CPA-DD which discusses the compliance to each applicability criteria of the methodology in detail.
Documentation provided by CME
CPA-DD CPA 02 version 2.1 dated 16/01/2017 *CPA-DD CPA 03 version 2.1 dated 16/01/2017* *CPA-DD CPA 04 version 2.1 dated 16/01/2017* *CPA-DD CPA 05 version 2.1 dated 16/01/2017* *CPA-DD CPA 06 version 2.1 dated 16/01/2017* *CPA-DD CPA 07 version 2.1 dated 16/01/2017* *CPA-DD CPA 08 version 2.1 dated 16/01/2017* *CPA-DD CPA 09 version 2.1 dated 16/01/2017*
DOE assessment **Date:** 17/01/2017
In section D.2 of the CPA-DD, references to the eligibility criterion have been provided with the means of proof to justify for each applicability condition of the methodology AMS-II.G version 6.

Table 3. FAR from this validation

FAR ID	xx	**Section No.**		**Date:** DD/MM/YYYY
Description of FAR				
CME response				**Date:** DD/MM/YYYY
Documentation provided by CME				
DOE assessment				**Date:** DD/MM/YYYY

APPENDIX A

Conformity of Component Project Activities

CDM-CPA-DD Requirements Checklist

"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 002"
"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 003"
"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 004"
"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 005"
"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 006"
"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 007"
"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 008"
"Improved Cookstoves Project Activity in Honduras "Vida Mejor con Ecofogones de Alto Rendimiento" – CPA No 009"

in HONDURAS

Table 4: Conformity of Component Project Activities

Table 1: CDM-CPA-DD / CDM-SSC-CPA-DD Requirements Checklist ((based on § 37 of the CDM Modalities and Procedures and on VVS , Project Standard

and Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities,)				
Checklist	**Comment**	**Ref.**	**Draft Concl.**	**Final Conc.**
Specific requirements of CPA				
SECTION A. General description of CPA				
A.1. Title of the proposed or registered PoA				
A.1.1. Is the reference and title of the PoA to which this CPA is included provided?	Yes, the reference and title of the PoA to which this CPA is included provided.	/1/	OK	OK
A.2. Title of the CPA				
A.2.1. Is the title of the CPA and the unique identification of the CPA Indicated?	Yes, title of the CPA has been indicated, however the unique identification of the CPA has not been indicated.	/1/	~~CAR 01~~	OK
A.2.2. Is the current version number of the CPA-DD Indicated?	Yes the current version of the CPA-DD has been indicated.	/1/	OK	OK
A.2.3.Is the date the CPA-DD was completed (DD/MM/YYYY) Indicated?	Yes, date of CPA-DD was completed in line with SSC-CPA-DD filling guidelines	/1/	OK	OK
A.3. Description of the CPA				
A.3.1 Is the description of the technology(ies) and/or measures used by the CPA is in accordance with the proposed or registered PoA, and in accordance with the applicable provisions in the Project standard?	Yes, the project is replacing the traditional stove with the ICS with higher efficiency. And the technology result in a significantly better performance than any commonly used technologies in the host country. The emission reduction would happen by	/1/	~~CAR 02~~	OK

	replacing the non-renewable biomass (NRB) which is main source of energy for cooking in the geographical area of the PoA.			
A.4 Entity/individual responsible for CPA				
A.4.1.1 Is the information on the CPA implementer(s) provided? (CPA implementers can be project participants of the PoA, under which the CPA is submitted, provided)	Yes, information on the CPA implementer provided is consistent with details provided in Annex 1 of the CPA-DD.	/1/	OK	OK
A.4.1.2 Is the name of CPA implementers included in the CPA is consistent with the proposed/ registered PoA?	Yes, information on the CPA implementer provided is consistent with details provided in Annex 1 of the CPA-DD.	/1/	OK	OK
A.5 Technical description of the CPA				
A.5.1. Is the description the technologies and/or measures to be employed and/or implemented by the CPA including a list of the facilities, systems and equipment that will be installed and/or modified by the CPA provided?	Yes, the description the technologies and/or measures to be employed and/or implemented by the CPA including a list of the facilities, systems and equipment that will be installed and/or modified by the CPA provided in section A.5 of the CPA-DD.	/1/	~~OK~~	OK
A.5.2 Does the description includes;	Yes, the Descriptions includes about the technologies in section A.5 of the CPA- DD.	/1/	OK	OK
A.5.2.1 A list and the arrangement of the main manufacturing/production technologies, systems and equipment involved provided?	Yes, the list has been provided in the section A.5 of the CPA-DD:	/1/	OK	OK

A.5.2.2 information about the age and average lifetime of the equipment based on manufacturer's specifications and industry standards, and existing and forecast installed capacities, load factors and efficiencies?	Yes, the information about the age and average lifetime of the equipment based on manufacturer's specifications and industry standards, and existing and forecast installed capacities, load factors and efficiencies.	/1/	OK	OK
A.5.2.3 The monitoring equipment detail and their location in the systems. Does the monitoring detail provided are complete to measure all data and parameters such that Emission reduction can be measured or calculated?	Refer section A.5.2.1	/1/	OK	OK
A.5.2.4 Energy and mass flows and balances of the systems and equipment included in the CPA?	Refer section A.5.2.1	/1/	OK	OK
A.5.2.5 The types and levels of services (normally in terms of mass or energy flows) provided by the systems and equipment that are being modified and/or installed under the CPA and their relation, if any, to other manufacturing/production equipment and systems outside the project boundary?	Refer section A.5.2.1	/1/	OK	OK
A.5.2.6 if the types and levels of services provided by those manufacturing/production systems and equipment outside the project boundary also constitute important parameters of the description. Does the description clearly explain how the same types and levels of services provided by the CPA would have been provided in the baseline scenario?	Not Applicable	/1/	OK	OK
A.5.3 Does the description contains a list of:-	Not Applicable	/1/	OK	OK
A.5.3.1 Facilities, systems and equipment in operation under the existing scenario prior to the	Not Applicable	/1/	OK	OK

implementation of the CPA?				
A.5.3.2 Facilities, systems and equipment in the baseline scenario?	Not Applicable	/1/	OK	OK
A.5.3.3 In case the baseline scenario is a continuation of current practice. Is it stated that both the scenarios are same?	Not Applicable	/1/	OK	OK
A.5.3.4 Does the information provides the purpose of the CPA and how it reduces GHG emissions?	Yes, the CPA will therefore reduce greenhouse gas emissions by implementing cook-stove thereby reducing use of non-renewable biomass in the host country.	/1/	OK	OK
A.6. Party(ies)				
A.6.1 Does the Party (ies) and CPA implementer(s) involved in the CPA provided in tabular format and in Appendix 1 Consistent and the contact information complete?	Yes, the Party (ies) and CPA implementer(s) involved in the CPA provided in tabular format and in Appendix 1 Consistent and the contact information complete.	/1/	OK	OK
A.7. Geographic reference or other means of identification				
A.7.1 Is the geographic reference or other means of identification that allows for the unique identification of the CPA provided? (maximum in one page)?	Yes, the information provided on the location of the programme of activity allows for a unique identification of the location and the boundary of the CPA in terms of the geographical area.	/1/	OK	OK
A.8. Duration of the CPA				
A.8.1 Start date of the CPA				
A.8.1 Is the start date provided in	Yes, the start date has	/1/	OK	OK

(DD/MM/YYYY) format?	been provided in correct format.			
A.8.2 Does the description, of how the start date was determined and is in line with the definition of start date in “Glossary of CDM terms” and provided in POA-DD?	Yes, Start date of the CPA can be after the start date of the PoA (which is the date of publication of the PoA-DD for global stakeholder consultation). raised.	/1/	OK	OK
A.8.2 Expected operational lifetime of the CPA				
A.8.2.1 Is the expected operational lifetime of the CPA stated in years and months?	Yes, the expected operational lifetime of the CPA has been clearly defined as 21 years and is plausible.	/1/	OK	OK
A.9. Choice of the crediting period and related information				
Does the type of crediting period renewable or Fixed chosen and clearly stated?	Renewable crediting period has been chosen and the length of first crediting period is 7 years.	/1/	~~CL 04~~	OK
A.9.1 Choice of the crediting period and related information				
Is the expected start date of the crediting period of the CPA indicated in (DD/MM/YYYY) format, and line with PoA?	Yes, the expected start date of the crediting period of the CPA indicated in (DD/MM/YYYY) format, and line with PoA requirements.	/1/	OK	OK
A.9.2 Length of the crediting period				
A.9.2.1 Is the length of the crediting period chosen clearly indicated?	Yes, the length of the crediting period chosen clearly indicated as 21 years and is plausible.	/1/	OK	OK
A.9.2.1.1 In case a renewable crediting period is chosen, does the length of the first crediting	Renewable crediting period has been chosen	/1/	OK	OK

period and the number of renewal periods provided?	and the length of first crediting period is 7 years.			
A.9.2.1.2 Does the total renewal periods comply and do not exceed the PoA validity period?	Yes, the total renewal periods comply and do not exceed the PoA validity period.	/1/	OK	OK
A.10 Estimated amount of GHG emission reductions				
Does the estimated annual GHG emission reductions for each year of the crediting period and, the annual average and the total GHG emission reductions over the chosen crediting period (or the first crediting period) provided in the table?	Yes, the estimated annual GHG emission reductions for each year of the crediting period and, the annual average and the total GHG emission reductions over the chosen crediting period (or the first crediting period) provided in the table.	/1/	OK	OK
A.11. Public funding of the CPA				
A.11.1 Does the PoA receives public funding from Parties included in Annex I?	It has been stated in section A.11 of CPA-DD that CPA does not receive public funding. This is consistent with section A.4.5 of PoA-DD and with actual situation.	/1/	OK	OK
A.11.2 If the PoA receives public funding from Parties included in Annex I, is the information on Parties providing public funding Provided in Appendix 2 and the affirmation obtained from such Parties is in accordance with applicable provisions related to official development assistance in the Project standard?	Not applicable	/1/	OK	OK
A.12. Confirmation for CPA				
A.12. Does the description include and confirm that the CPA is neither registered as an individual CDM project activity nor is part of	CME for the PoA has confirmed that the CPA is neither registered as	/1/	OK	OK

another registered PoA?	an individual CDM project activity nor is part of another registered PoA.			
SECTION B. Environmental analysis				
B.1. Analysis of the environmental impacts				
B.1.1 Is the analysis of the environmental impacts required and is undertaken,	NA, since environmental analysis takes place at PoA level	/1/	OK	OK
B.1.2 Does the description and the analysis of environmental impacts undertaken is as per the PoA.	Refer section B.1.1 above	/1/	OK	OK
B.2. Environmental impact assessment				
B.2.1. Is an environmental impact assessment required?	NA	/1/	OK	OK
B.2.1.1 Does the assessment of the requirement of Environmental impact assessment and the conclusion & related references to all documentation provided?	NA	/1/	OK	OK
B.2.2 In case the section B1and B.2 is kept blank. Is it indicated and confirmed that the environmental analysis is provided at the PoA level.	Yes, environmental analysis is provided at the PoA level.	/1/	OK	OK
SECTION C. Local stakeholder comments				
C.1. Solicitation of comments from local stakeholders				
C.1 Is the detail of process by which comments from local stakeholders have been invited for the CPA described?	NA, since LSC took place at PoA level	/1/	OK	OK
C.2. Summary of comments received				
C.2 Are all stakeholders that have made comments Identified and Is the summary of these comments provided?	NA, since LSC took place at PoA level	/1/	OK	OK
C.3. Report on consideration of comments received				
C.3.1 Does the information provided demonstrate that all comments received have	NA, since LSC took place at PoA level	/1/	OK	OK

been considered?				
C.3.2. In case the section C1and C.2 is kept blank. Is it indicated and confirmed that the stakeholder consultation information is provided at the PoA level?	NA, since LSC took place at PoA level	/1/	OK	OK
SECTION D. Eligibility of CPA and estimation of emissions reductions				
D.1. Title and reference of the approved baseline and monitoring methodology(ies) selected.				
D.1. Is the exact methodology(ies) Identified and reference & title of the approved methodology provided?	AMS-II.G "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass", Version 05.0 is applied.	/1/	~~CL 01~~	OK
D.2. Application of methodology(ies)				
D.2.1 Is it demonstrated how the applicability conditions of the approved methodology(ies) and the PoA are met?	Yes, All applicability condition of applied methodology described explicitly in CPA-DD.	/1/	OK	OK
D.2.2 Has the documentation that has been used provided and explained? Is the reference of documentation included in Appendix 3?	Yes. Refer to D.2.1	/1/	OK	OK
D.3. Sources and GHGs				
D.3.1 Does all the sources and GHGs included in the CPA boundary Described in accordance with the PoA?	Yes, the sources and GHGs included in the CPA boundary According to the eligibility criteria (a) for this PoA.	/1/	OK	OK
D.3.2 Does the proof which shows that the CPA is located within the geographical boundary of the proposed or registered PoA Provide?	CL 02 has been raised in this regard.	/1/	~~CL 02~~	OK
D.3.3. Does all emission sources and GHGs included in the CPA boundary described, explained and justified using the table provided?	Yes, all emission sources and GHGs included in the CPA boundary described, explained and justified using the table provided.	/1/	OK	OK

D.3.4 Does the section Include a flow diagram of equipment, energy and mass flows based on the description provided in section A.5. of CPA-DD?	NA			
D.4. Description of the baseline scenario				
D.4 Is the description of the baseline scenario and its identification for the CPA is in accordance with the PoA?	The baselines scenario and its identification is in accordance with the PoA.	/1/	OK	OK
D.5. Demonstration of eligibility for a CPA				
D.5.1 Does CPA meets each of the eligibility criteria of the PoA including confirmation of additionality of the CPA for its inclusion into the PoA? Please provide assessment for each of the eligibility criteria as per the proposed or registered PoA-DD, the eligibility criteria shall cover (unless differently mentioned in the registered PoA-DD, if the registered PoA-DD provides different set of eligibility criteria, consider those in the below row) a minimum the following :	CL 03 and CAR 03 have been raised in this regard.	/1/	~~CL 03~~ ~~CAR 03~~	OK
(a) The geographical boundary of the CPA including any time-induced boundary # consistent with the geographical boundary set in the PoA # For example, an emission factor for electricity generation is dependent on the boundaries of regional or state or sub-regional grids.	Refer section D.2 of this report .	/1/	OK	
(b) Conditions that avoid double counting of emission reductions like unique identifications of product and end-user locations (e.g. programme logo);	Refer section D.2 of this report .	/1/	OK	OK
(c) The specifications of technology/measure # including the level * and type of service, performance specifications including compliance with testing/certifications; # Specifications of the technology/measure shall include the type, capacity and other key features	Refer section D.2 of this report .	/1/	OK	OK

of the design of the systems. For example, indicating the installed capacity (in kW), size or dimensions, fixed/portable operation, and other key design features that makes the project cook stoves efficient, would be appropriate; however, only indicating that all cook stoves will have an efficiency X% would not be sufficient. * The level of service shall be defined in comparison with the baseline system being replaced.				
(d) Conditions to check the start date of the CPA through documentary evidence;	Refer section D.2 of this report .	/1/	Ok	OK
(e) Conditions that ensure compliance with applicability and other requirements of single or multiple methodologies applied by CPAs;	Refer section D.2 of this report .	/1/	OK	OK
(f) The conditions that ensure that the CPA meets the requirements pertaining to the demonstration of additionality as assesed in section B.1 above;	Refer section D.2 of this report .	/1/	OK	OK
(g) The PoA-specific requirements stipulated by the CME including any conditions related to undertaking local stakeholder consultations and environmental impact analysis;# # See also relevant paragraphs of “CDM project cycle procedure”.	Refer section D.2 of this report .	/1/	OK	OK
(h) Conditions to provide an affirmation that funding from Annex I Parties, if any, does not result in a diversion of official development assistance;	Refer section D.2 of this report .	/1/	OK	OK
(i) Where applicable, target group (e.g. domestic/commercial/industrial, rural/urban, grid-connected/off-grid) and distribution mechanisms (e.g. direct installation) $; $ This is to re-test the validity of assumptions made at the PoA level. For example, in a lighting efficiency application, lighting usage hours of 3.5 hours per day would be valid if the target group is residences/households. Usage	Refer section D.2 of this report .	/1/	OK	OK

hours would be different in commercial applications and vice versa.				
(j) Where applicable, the conditions related to sampling requirements for the PoA in accordance with the "Standard for sampling and surveys for CDM project activities and programme of activities";	Refer section D.2 of this report .	/1/	OK	OK
(k) Where applicable, the conditions that ensure that every CPA meets the small- scale or microscale threshold # and remains within those thresholds throughout the crediting period of the CPA. However, for a CPA that consists of only units that qualify as 'microscale CDM units' as defined in the methodological tool "Demonstration of additionality of microscale project activities", this condition is not required; # Please refer to the latest approved version of the methodological tool "Demonstrating additionality of microscale project activities" and the latest approved version of the "General Guidelines to SSC CDM methodologies".	Refer section D.2 of this report .	/1/	OK	OK
(l) Where applicable, the requirements for the debundling check, in case the CPA belongs to small-scale or microscale project categories #. However, if a CPA solely consists of 'microscale CDM units', the requirement regarding debundling is not applicable. # Please refer to the latest approved version of the methodological tool "Assessment of debundling for small-scale project activities".	Refer section D.2 of this report .	/1/	Ok	OK
D.6. Estimation of emission reductions				
D.6.1.Explanation of methodological choices				
D.6.1.1 Is Explanation and justification for the methods and/or methodological steps, based on the applied methodology, for calculating baseline emissions applied to the CPA provided?	Yes,explanation and justification for the methods and/or methodological steps, based on the applied methodology, for calculating baseline	/1/	OK	OK

	emissions applied to the CPA provided in the CPA-DD.			
D.6.1.2 Is Explanation and justification for the methods and/or methodological steps, based on the applied methodology, for calculating, project emissions, are applied to the CPA provided?	The equations are correctly used for calculation.	/1/	OK	OK
D.6.1.3 Is Explanation and justification for the methods and/or methodological steps, based on the applied methodology, for calculating, leakage emissions and emission reductions applied to the CPA provided?	The equations are correctly used for calculation.	/1/	OK	OK
D.6.1.4 Is Explanation and justification for the methods and/or methodological steps, based on the applied methodology, for calculating, emission reductions applied to the CPA provided?	The equations are correctly used for calculation.	/1/	OK	OK
D.6.1.5 Is the equation for calculating the emission reductions for CPA is in line with the methodology and the PoA?	Yes, the equation for calculating the emission reductions for CPA is in line with the methodology and the PoA.	/1/	OK	OK
D.6.2. Data and parameters that are to be reported ex-ante				
D.6.2.1 Does the compilation of information on the data and parameters that are not monitored during the crediting period but are determined before the registration and remain fixed throughout the crediting period described and provided?	CL 04 has been raised in this regard	/1/	~~CL 04~~	OK
D.6.2.2. Is the compilation of information for data that are measured or sampled, and data that are collected from other sources (e.g. official statistics, expert judgment, proprietary data, IPCC, commercial and scientific literature, etc.) are complete and as per the methodology and applicable conditions?	Refer section D.6.2.1 above	/1/	OK	OK
D.6.2.3. Are all data or parameter, complete	Yes, all data or	/1/	OK	OK

with respect to the: "Value(s) of data applied, Choice of data, Purpose of data, Measurement methods and procedures to enable Calculation of baseline emissions; Project Emission, Leakage Emission, Emission Reduction? Pleas list all ex-ante parameters (as below) along with their values and provide an assessment on its appropriateness.	parameter, complete with respect to the: "Value(s) of data applied, Choice of data, Purpose of data, Measurement methods and procedures to enable Calculation of baseline emissions; Project Emission, Leakage Emission, Emission Reduction. Refer section D.5.2 of this report.			
Parameter	**Description**	**Verified Value**	**Verified Source**	
$B_{old,i}$	Quantity of woody biomass that would be used in the absence of the project activity for Residential users.	3.10 tonnes / year / project device for Residential biomass user stoves used for residential purposes	The value is based on historical data as reported in the "Energy Efficiency in Central America: Progress and Action towards the fulfilment of Goals of the Central American Sustainable Energy Strategy" by Victor Hugo Ventura and Ryan Carvalho, published by UN-CEPAL, 2014 report/12/. The values are based on the baseline survey study report. The UN CEPAL, 2014 report/12/ gives the value of Quantity of biomass consumed per household and not per project device. Thus, it is assumed ex-ante that there is only one project	OK

			stove being used per household for calculating $B_{old,i}$.	
η_{old}	Efficiency of the system being replaced as part of the SSC-CPA	10 %	The values were sourced from baseline study reports/11/. The CPAs shall use a default value of 10 % (0.1) because the systems being replaced are either three stone fire stoves or conventional systems with no improved combustion air supply or flue gas ventilation system. The type of stoves in the baseline are traditional stoves and during the site visit by the validation team usage of traditional 3 stone firewood stoves was found to be prevalent across Honduras. The value is based on the para 17 of the methodology AMS-II.G, version 06/B03/. The validation team deemed the value to be appropriate and correct.	OK
LE_y	Leakage	0	Default value of 0.95 as per para 30 of the AMS-II.G. version 06.0/B03/ has been used for gross adjustment factor/leakage adjustment factor.	OK
$NCV_{biomass}$	Net calorific value for biomass	0.015 TJ/tonne	Default value as per AMS-II.G. (Version 06.0) /B03/.	OK
$EF_{projected\_fossil\_fuel}$	Emission factor for the substitution of non-renewable woody biomass by similar	81.6 tCO_2/TJ	Default value as per AMS-II.G. (Version 06.0) /B03/.	OK

	consumers.			
$f_{NRB,y}$	Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable	0.8382	The value is fixed ex-ante at the PoA level/B02/. The value has been determined based on Envirofit International Ltd: NRB Study Honduras-, version03 dated 22 July 2013.	OK
D.6.3. Ex-ante calculation of emission reductions				
D.6.3.1. Is ex ante calculation of project emissions, baseline emissions, Leakage emissions and /or Emission reduction expected during the crediting period, Provided in a transparent manner based on data or parameters (in the table in section D.6.2 above) applying all relevant equations provided in the selected methodology?	Yes, it is provided in the specific CPA.	/1/	OK	OK
D.6.3.2 If any of these estimates has been determined by a sampling approach, then are the descriptions of the sampling efforts undertaken (in accordance with the "Standard for sampling and surveys for CDM project activities and programme of activities") Provided?	Yes the sampling approach is as per Standard for sampling and surveys for CDM project activities and programme of activities.	/1/	OK	OK
D.6.3.3. Are the documentation of each equation applied, represented in a manner that enables the reader to reproduce the calculation?	All equation applied to calculate baseline emissions are in line of applied methodology.	/1/	OK	OK
D.6.3.4. Are the relevant, additional background information and/or data (including relevant electronic) spreadsheet provided in Appendix 4?	Yes, all the relevant, additional background information and/or data (including relevant electronic) spreadsheet provided.	/1/	OK	OK
D.6.3.5 Is a sample calculation for each equation used, substituting the values used in the equations Provided?	Not applicable			
D.6.4. Summary of the ex-ante estimates of emission reductions				

Is the summary of all ex-ante estimation of Baseline Emission, Project Emission, Leakage Emission and Emission Reduction provided in accordance with given table?	Yes, it is provided in the table.	/1/	OK	OK
D.7. Application of the monitoring methodology and description of the monitoring plan				
D.7.1. Data and parameters to be monitored				
D.7.1.1. Is the specific information related to procedures for measurement, monitoring, recording, collected, archiving of data and parameters that is required for estimation and calculation of Emission Reduction provided?	CL 05 has been raised in this regard.	/1/	~~CL 05~~	OK
D.7.1.2 Are all data or parameter, complete with respect to the: “Value(s) of data applied, Choice of data, Purpose of data, Measurement methods and procedures, QA/QC procedures to enable Calculation of baseline emissions; Project Emission, Leakage Emission, Emission Reduction ?	Yes. .	/1/	OK	OK
D.7.1.3 Are the relevant, additional background information on data and parameters to be monitored is provided in Appendix 5?	It is fulfilled.	/1/	OK	OK
D.7.2. Description of the monitoring plan				
D.7.2.1 Is the description of the monitoring plan for the CPA provided in accordance with the approved monitoring methodology (ies) and PoA?	The procedure for monitoring, data collection, recording, checking, data transfer and archiving system for CPA are appropriate and in line with applied methodology.	/1/	OK	OK
D.7.2.2 In case the data and parameters to be monitored determined by sampling approach, are the description of sampling plan provided in accordance with the recommended outline for a sampling plan in the “Standard for sampling and surveys for CDM project activities and programme of activities”?	Yes.	/1/	OK	OK