

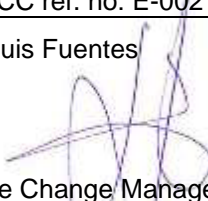


Validation report form for renewal of crediting period of component project activities

(Version 03.0)

Complete this form in accordance with the instructions attached at the end of this form.

BASIC INFORMATION

Title and UNFCCC reference number of the programme of activities (PoA)	West African Biodigester Programme of Activities UNFCCC Ref N°: 9977		
Version number of the validation report	2		
Completion date of the validation report	22/03/2021		
Version numbers of PoA-DD to which this report applies	1.7		
Title and UNFCCC reference number of each CPA for renewal	CPA Ref. no.	Title	
	CPA01	National Biodigester Programme Burkina Faso	
Sectoral scopes for each CPA	CPA Ref. no.	Sectoral scopes (indicate mandatory and conditional sectoral scopes)	
	CPA01	1: Energy industries (renewable - / non-renewable sources)	
Applied methodologies and standardized baselines for each CPA	CPA Ref. no.	Applied methodologies and standardized baselines	
	CPA01	AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user --- Version 11.0.	
Number and duration of the next crediting period (CP)	CPA Ref. no.	No. of CP	Duration of the CP
	CPA01	1	7 year (from 01/07/2021 to 30/06/2028)
Coordinating/managing entity (CME)	SNV Netherlands Development Organisation		
Host Parties	Burkina Faso		
Estimated amount of annual average greenhouse gas (GHG) emission reductions or GHG removals by sinks in the next crediting period (tCO₂e), per CPA	CPA Ref. no.	Annual emission reductions or removals (tCO₂e)	
	CPA01	61,058	
Name and UNFCCC reference number of the DOE	AENOR INTERNACIONAL S.A.U UNFCCC ref. no: E-0021		
Name, position and signature of the approver of the validation report	José Luis Fuentes  Climate Change Manager		

SECTION A. Executive summary

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SNV Netherlands Development Organisation has commissioned AENOR to determine whether the coordinating/managing entity has updated sections of the CPA-DD relating to the demonstration of eligibility for being included in the PoA, the baseline, estimated GHG emission reductions, the monitoring plan and the crediting period in accordance with the generic CPA in the version 1.7 of the PoA-DD, that has been submitted to renewal of crediting period, but has not been published yet.

The validation included the assessment of the information included in the CDM-CPA-DD (hereinafter CPA-DD) included in the Programme of Activities titled "West African Biodigester Programme of Activities, UNFCCC Ref N°: 9977" (hereafter called POA) against the requirements stated in the CDM Validation and Verification Standard for Programme of Activities version 02.0 and eligibility criteria included in the PoA-DD.

The goal of the CPA is to improve the quality of life of rural farmers, particularly women and girls, and their livelihoods in Burkina Faso through exploiting the market and non-market benefits of domestic biodigesters. The purpose of the proposed component CDM project activity (CPA) is to stimulate the dissemination of biodigester systems in Burkina Faso to replace traditional thermal energy generation methods at household level, to provide a high-quality organic fertiliser, and to reduce methane emissions through changing the management practice of biogenic waste.

Proposed CPA is implemented by *Programme National de Biodigesteurs du Burkina Faso* (National Biodigester Programme of Burkina Faso; PNB-BF). This component of the PoA will install biodigesters consisting of a double biogas cookstove and a biodigester, constructed for households which have at least 2 heads of cattle. Biodigesters produce biogas from human, animal or plant waste. Produced biogas can be used in biogas cookstoves for household cooking and thus replacing the use of non-renewable biomass (NRB), mostly firewood. NRB when used in the production of thermal energy produces greenhouse gas (GHG) emissions, particularly carbon dioxide. By switching from NRB to biogas, which is a renewable fuel, the PoA reduces GHG emissions.

The CPA is a type I activity and will be within the small-scale threshold of 45 MWth rated capacity. The average size of the implemented biodigester will be 2.57 kWth, thus CPA may include ca 17,491 domestic biodigesters in operation. Digesters not in operation will not be counted towards the SSC threshold.

The scope of the validation includes the assessment of updated sections of the CPA-DD relating to the eligibility criteria for inclusion of CPAs in the PoA, the baseline, estimated GHG emission reductions or net anthropogenic GHG removals, the monitoring plan and the PoA period using the valid version of the approved methodology that are applicable to the PoA.

All documents reviewed as part of the scope of the activity is detailed in the appendix 3. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations. AENOR, based on the Specific Instruction for the Processing and Conducting of Validation, Registration, Verification and Certification of Kyoto Protocol CDM Project Activities (IE-DTC-039), has used a risk-based approach in the validation, focusing on the identification of significant risks for project implementation and the generation of CERs.

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

The validation was performed through means of the following the requirements of CDM validation and verification standard for programmes of activities, version 02.0, the applied methodology, and relevant CDM rules. The process of the validation included:

- I. Review of data and information;

- II. Cross checks between information provided in the PoA-DD and information from sources;
- III. Review new relevant national and/or sectoral policies;
- IV. The resolution of outstanding issues;

Validation Process

The component of the programme activity validation assessment for renewal of crediting period aims to be a risk-based approach and is based on the methodology developed in the CDM Validation and Verification Standard for Programme Activities, an initiative of Designated and Applicant Entities, which aims to harmonise the approach and quality of all such assessments.

The validation for the renewal of the crediting period began in October 2020 when the PP provided the initial version of the CPA-DD, and concluded in March 2021, with the submission of the final validation report. The validation was performed in the manner of an audit, where, a desk review of the CPA-DD was undertaken against the latest version of the approved methodology and CDM and other relevant criteria applying to the project.

As a final step of the validation, the validation report and the protocol have to undergo internal quality control by means of a technical review following the procedures of AENOR. The technical reviewer is a competent person from AENOR, independent of the team that carried out the validation of the project activity.

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

All Corrective Action Requests (CAR) and Clarification Actions (CL) have been checked by the validation team and have been adequately resolved. All the validation findings are summarized in section C.5 below and documented in more detail in Appendix 4.

In AENOR's opinion the CPA correctly applies and meets the relevant UNFCCC requirements for the CDM Programme of Activities and the relevant host country criteria.

SECTION B. Validation team, technical reviewer and approver

B.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/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader and Validator	IR	Gonzales Toledo	Richard Daniel	AENOR PERU	Yes	N/A	Yes	Yes
2.-	Validator	IR	Arribas Alonso	Luis Javier	AENOR	Yes	N/A	N/A	Yes

B.2. Technical reviewer and approver of the validation report for RCP

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	Llorente Perez	Elena	AENOR
2.	Approver	IR	Fuentes Pérez	José Luis	AENOR

SECTION C. Means of validation**C.1. Desk/document review**

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The desk review involved:

- CDM validation and verification standard for programmes of activities, version 02.0 /1/
- CDM project standard for programmes of activities, Version 02.0, /2/
- Methodological Tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period, Version 03.0.1 /3/
- Updated PoA-DD, for renewal of crediting period, version 1.7, dated on 19/03/2021 /4/
- Approved Methodology: AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user --- Version 11.0 /5/
- Methodological tool: Calculation of the fraction of non-renewable biomass, version 02.0 /6/
- Methodological tool: Project and leakage emissions from biomass, version 04.0 /7/
- Methodological tool: Assessment of de-bundling for small-scale project activities, version 04.0 /8/
- Methodological tool: Methodological tool: Positive lists of technologies, version 02.0 /9/
- Standard for sampling and surveys for CDM project activities and programme of activities, version 08.0. /10/
- Initial version of CDM-CPA-DD, version 1.1 /11/
- Final version of CDM-CPA-DD, version 1.6 /12/
- CDM-Generic-CPA-DD /13/
- fNRB calculations spreadsheet /14/
- Updated Modalities of Communication Statement /15/
- Generic emission reduction calculation for CPAs spreadsheet /16/
- Emission reduction calculation spreadsheet /17/
- Decision 3/CMP.1 and relevant decisions and guidelines from the EB. /18/
- AENOR's PoA validation report for renewal crediting period, version 2, dates on 22/03/2021 /19/
- Burkina Faso's National Renewable Energies Action Plan /20/
- Statement of CME that the location and boundary is within Burkina Faso /21/
- CPA Validation report, Revision number:04, Report Date: 21/06/2014 /22/
- Biomass Non-Renewability Assessment, September 2020 /23/
- ODA declaration from National Biodigester Programme Burkina Faso /24/

C.2. On-site inspection

The validation of the CPA began in October 2020 and has concluded on March 2021. The validation has been performed in the manner of an audit, where, a desk review of the CPA was undertaken against the approved methodology and CDM and other relevant criteria. In accordance with paragraph 183 of the CDM Validation and Verification Standard for Programme of Activities (version

02.0) no on-site visit to CPAs was made since the annual average of GHG emission reductions is less than 100,000 tCO₂eq. Though the CPA was not visited, different information and evidences were requested to the developer of the CPA by email during the validation process in order to validate the CPAs.

Duration of on-site inspection: DD/MM/YYYY to DD/MM/YYYY				
No.	Activity performed on-site	Site location	Date	Team member
1.	N/A	N/A	N/A	N/A

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Lam	Jan	SNV. Advisor renewable energy	10/10/2020 - 04/11/2020	PoA-DD Update CPA design Update Changes in local regulation Ex-ante baseline, project emissions and leakage calculation	Richard Daniel Gonzales Toledo
2	Eric	Buysman	CDM consultant	14/12/2020 - 15/03/2021	PoA-DD Update CPA design Update Emission reductions calculation update	Richard Daniel Gonzales Toledo

C.4. Sampling approach

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Not applicable. Sampling approach has not been used as mean of validation

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Area of validation findings (SECTION D)	No. of CL	No. of CAR	No. of FAR
CPAs to be renewed and corresponding generic CPAs	-	-	-
Compliance with CPA-DD form	-	CAR 1	-
Application and selection of methodologies and standardized baselines	CL 1	-	-
Validity of original baseline or its update	-	CAR 2	-
Demonstration of eligibility of the CPAs	CL 2	-	-
Estimated emission reductions or net anthropogenic removals	CL 3	-	FAR 1
Validity of monitoring plan	-	-	-
Crediting period	-	-	-
CME and project participants	-	-	-
Post-registration changes	-	-	-
Others (please specify)	-	-	-
Total	3	2	1

SECTION D. Validation findings**D.1. CPAs to be renewed and corresponding generic CPAs**

Title and UNFCCC reference number of the CPA	Version number of the CPA-DD	Host Party	Title and reference number of the corresponding generic CPA	Version number of the PoA-DD on which the RCP is based
National Biodigester Programme Burkina Faso – CPA01 Ref N° 9977-P1-0001-CP1	1.6	Burkina Faso	West Africa Biodigester Generic CPA	1.7

D.2. Compliance with CPA-DD form

Means of validation	<p>The compliance of the CPA-DD with the valid version of the form was checked through desk-review of last version of the CPA-DD (version 1.3) /12/, last version of applicable form (Version 09.0) and the instructions for filling out the CDM-CPA-DD, which includes in its attachment the instructions for filling out it, CDM rules and references and supported documents provided by the project participants.</p> <p>The form of the CPA-DDs used (CDM-CPA-DD-FORM version 09.0) is in accordance with form in force published in the UNFCCC Website, and all sections have been correctly completed, using same format without modifying its font, headings or logo, and without any other alteration to the form.</p>
Findings	A corrective action request (CAR 1) was raised regarding this issue. All information regarding the findings are detailed in appendix 4.
Conclusion	<p>Due to the corrective action requested during the validation process, the project participant made a final version of the CPA-DD, which includes corrections or clarifications to all issues raised.</p> <p>The audit team checked that the information transferred to the later valid version of the CPA-DD is materially the same as that in the registered CPA-DD, except for the relevant sections, which were updated in accordance with the relevant requirements in the Project standard (relating to the baseline, estimated GHG emission reductions, the monitoring plan and the crediting period using a baseline and monitoring methodology).</p> <p>In AENOR's the CPA-DD is in compliance with relevant form and guidance as provided by UNFCCC. AENOR considers that the Instructions for the completion of the CPA documents have been followed. Relevant information was provided by the Managing entity and/ or project participant in the applicable CPA sections.</p>

D.3. Application and selection of methodologies and standardized baselines

Means of validation	<p>In accordance with the POA-DD the CPA belong to type I activity within the small-scale threshold of 45 MWth rated capacity, as per stated in the AMS-I. E: Switch from non-renewable biomass for thermal applications by the user, version 11.0.</p> <p>The information presented in the CPA documents on the technical design has been crosschecked with the actual planning and implementation of the project activity, and it has been confirmed by reviewing provide information and support documentation, including:</p> <ul style="list-style-type: none"> • Updated PoA-DD /4/ • Applied methodology – AMS-IE, version 11.0 /5/ • Applied tools /6/ /7/ /8/ /9/
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	<ul style="list-style-type: none"> • Standard for sampling and surveys for CDM project activities and programme of activities/10/ • fNRB calculations spreadsheet /14/ • Generic emission reduction calculation for CPAs spreadsheet /16/. • Emission reduction calculation spreadsheet/17/. • Burkina Faso's National Renewable Energies Action Plan /20/ <p>Applicability conditions of the applied methodology are detailed in the CPA, and the validation team have crosschecked the technical description of the CPA with the methodology.</p>
Findings	No finding was raised regarding this issue
Conclusion	<p>The applicability criteria of the baseline methodology AMS-I. E is transparently included in the CPA-DD, and it is in accordance with the generic CPA and the technical description of the CPA. The relevant documentation has been provided to prove that the methodology is applicable to the CPA. The guidelines for the application of the methodology in the PoA have been clearly accomplished. The CPA-DD has mentioned the exact reference to the methodology and have correctly applied the tool and guidance relevant as per applied methodology.</p> <p>According to the paragraph 391 of the CDM validation and verification standard for programmes of activities; the audit team confirms that, for the renewal of crediting period of the CPA, the CME has updated the estimated GHG emission reductions, the monitoring plan and the crediting period in accordance with the generic CPA in the latest version of the PoA-DD. Therefore, has applied the last version of methodology and tools.</p> <p>The audit team confirms that the applicability criteria for the baseline and monitoring methodology and tools and information documentation content in the CPA-DD against these criteria have been transparently detailed in the CPA-DD and are assessed by the validation team by means of document review. Thus, the validation team confirms that the project participant has correctly applied the approved methodology for the proposed CPA and that the selected version is consistent with the related PoA-DD.</p>

D.4. Validity of original baseline or its update

Means of validation	<p>The validity of the original baseline was validated against the assessment included in the last version of the PoA-DD (version 1.7, for the renewal of the crediting period)</p> <p>It was reviewed the correct applicability of the methodology. Baseline parameters are in accordance with last version of applied methodology. Validation team reviewed the generic emission reduction calculation for CPAs spreadsheet /16/ and emission reduction calculation spreadsheet /17/.</p> <p>The CME has updated the modalities to calculate the GHG emission reductions as per latest version of the methodology and due to the parameters for determining the baseline emission have not changed, no additional assessment was done.</p>
Findings	A corrective action request (CAR 2) was raised regarding this issue. All information regarding the findings are detailed in appendix 4.
Conclusion	<p>In AENOR's opinion, the PPs have documented in the final version of the PoA-DD the issues considered for assessing the validity of the baseline for the next crediting period in accordance with paragraphs 288 to 291 of CDM project standard for programmes of activities, Version 02.0.</p> <p>Finally, CME has updated the modalities to calculate the GHG emission reductions as per latest version of the methodology and due to the parameters for determining the baseline emission have not changed, no additional assessment was done.</p>

D.5. Demonstration of eligibility of the CPAs

Means of validation	A complete list of CPA Eligibility Criteria has been set up in section F of the final CPA-DD as defined in the PoA-DD. The criteria are considered precise, clear and accurate. The eligibility criteria are stated as follows:			
	ref	Category	Description	Means of validation
	(a)	Geographic al Boundary	All cookstoves supplied by biogas from biodigesters listed in the CPA will be located in Benin or Burkina Faso. Project boundary of each CPA will be the physical, geographical site of the installed biodigesters (biodigesters and biogas cookstoves).	Criterion satisfied, the CPA is located in Burkina Faso. CME has provided the updated Statement of CME that the location and boundary is within Burkina Faso or Benin /21/
	(b)	Double counting	All CPAs will be checked to prevent double counting and are not registered as a separate CDM project activity, nor as part of another registered CDM PoA.	Criterion satisfied. A statement is included in the CPA-DD that the specific CPA will not be part of another single CDM project activity or CPA under another PoA /21/ In addition, all plants installed under this CPA will be assigned with unique code numbers, to avoid double counting.
	(c)	Technology	The applied technology involves the dissemination of gas cookstoves supplied by fuel from fixed-dome household biodigesters producing biogas for cooking purposes. All the biogas cookstoves with biodigesters included in each CPA will replace the use of nonrenewable biomass. The biodigesters will be of fixed dome design constructed as per the specifications and quality guidelines in the NBP " <i>Manuel des Constructeurs de Bio digesteurs domestiques</i> ", or digesters with equivalent performance (i.e. prefabricated digesters)	Criterion satisfied. All biodigesters included in this CPA are fixed-dome biodigesters and produce biogas to replace non-renewable biomass for cooking. The CPA however will pilot new digester models – these models will have equivalent performance compared to the fixed dome In addition, only the biodigesters passing the criteria will entered into the CPA database /14/
(d)	Start date	Prior Consideration form was submitted to the UNFCCC on August 29/08/2013. All CPAs will state very clearly their start date, and evidence that their start date is not prior to the date of submission of Prior consideration form.	Criterion satisfied. Starting date of the CPA is on or after the starting date of the PoA (date of the Prior Consideration form, 29/08/2013). The start date was confirmed against UNFCCC website.	

	(e)	Methodology	<p>All the CPAs will comply with the CDM methodology used for this PoA i.e. AMS I.E, v.11.0</p> <p>Applicability criteria described in table 2 (of the PoA-DD), that are applicable to the CPA's, criteria 1,2,4,7,10 are included here, Criteria 8 on double counting is separately mentioned in this table.</p> <p>1. This category comprises activities to displace the use of non-renewable biomass by introducing renewable energy technologies. Examples of these technologies include, but are not limited to biogas stoves, solar cookers, passive solar homes, renewable energy-based drinking water treatment technologies (e.g. sand filters followed by solar water disinfection; water boiling using renewable biomass).</p> <p>2. Project participants are able to show that non-renewable biomass has been used since 31 December 1989, using survey methods or referring to published literature, official reports or statistics.</p> <p>3.The following further conditions apply for the fNRB value applied in a component project activity (CPA) of a PoA. The choice between (a) conduct own studies to determine the local fNRB value as per "TOOL30 v.2: Calculation of the fraction of non-renewable biomass" and then apply those values in the CPAs; and (b) use default national values approved by the Board shall be made ex ante. A switch from national value i.e. choice (b) to local values i.e. choice (a) is permitted, under the condition that the selected approach is consistently applied to all CPAs.</p> <p>4.Under this methodology, emission reductions cannot be claimed only due to fuel-switch aspect and proposed project activities shall introduce new renewable energy based technologies, i.e. technology switch is also involved.</p> <p>5. The leakages are estimated and accounted for, if required, on a sample basis using a 90/30 precision for the selection of samples, as per paragraph 39. of the methodology. transfer.</p>	<p>Criterion satisfied. The CPA complies with the CDM methodology used in the PoA (AMS-I.E.).</p> <p>1. In this CPA biogas stoves are installed (biodigester systems fed with animal manure)</p> <p>2. Non-renewable biomass has been used since 31st Dec 1989.</p> <p>3. fNRB has been calculated using Tool 30 v.2 option b – use local values and this is only CPA as of date in Burkina Faso.</p> <p>4. In this CPA a new technology is installed using a different fuel, thereby meeting the requirement</p> <p>5. Leakage in CPA 1 is accounted by multiplying the quantity of biomass that is substituted or replaced (By) by a net to gross adjustment factor of 0.95</p> <p>Reviewed document included the fNRB calculations spreadsheet /14/ and updated PoA-DD /4/</p>
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	(f)	Additionality	The maximum power output of the technology shall be 100 kW or less, in order to remain on the positive list of Tool 32 v2.0	Criterion satisfied. Power output of biodigester is not larger than 100 KW. Reviewed document included the power output of biodigester calculation sheet included in the emission reduction calculation spreadsheet/17/ and the contract of CPA implementer with CME.
	(g1)	Stakeholder consultation	All CPAs will perform the CPA level stakeholder consultation and adhere to these minimum requirements: <ul style="list-style-type: none"> • be a physical meeting • invite parties that will be impacted by the projects or who are involved in the cook stove sector (end users, NGO, government agencies) or similar relevant sectors • provide an overview of the project • collect comments from participants • take account of the comments 	Criterion satisfied. It was assessed during the first verification. Reviewed document included the PoA Validation report /19/, CPA Validation report/22/ and updated PoA-DD /4/
	(g2)	Environmental Impact Analysis	Environmental Impact Analysis is carried out on PoA level.	Criterion satisfied. It was assessed during the first verification. Reviewed document included the PoA Validation report /19/ and updated PoA-DD /4/
	(g3)	Monitoring	As per the methodology, <i>"monitoring shall consist of checking of all appliances or a representative sample thereof, at least once every two years (biennial) to ensure that they are still operating or are replaced by an equivalent in service appliance."</i> The CPAs have procedures in place to track distribution of biodigesters. The tracking system will involve the recording of biodigester size, date of construction, contact information of owner and any other information that is deemed useful to locate the biodigester. Each biodigester will have a unique identification code.	Criterion satisfied. The CPA database of the proposed CPA contains information including plants ID code. A separate file of each plant is also maintained with the CPA implementer. Reviewed document included the CPA data base /14/
	(g4)	Approval of CPA by CME	All CPAs will have a project implementer that is either the Coordinating Managing Entity or another entity that has signed a contractual agreement with the	Criterion satisfied. The CPA implementer is the National Biodigester Programme Burkina Faso. No changes of project implementer are included in the updated CPA-DD.

			<p>Coordinating Entity to become a CPA implementer.</p> <p>Those agreements include all rights and responsibilities of both parties, e.g. approval procedures by the CME, monitoring requirements, CER rights transfer. This eligibility criterion is not necessary if the CPA implementer is the CME.</p> <p>All biodigesters listed in the CPA should be implemented under the National Biodigester Programmes lead by SNV and its partners.</p>	Reviewed document included the updated PoA-DD /4/ and the contract of CPA implementer with CME.
	(g5)	Inclusion of CPA	Each CPA inclusion by CME shall be reviewed/approved by a DOE (except of the first CPA submitted with PoA for validation)	Criterion satisfied. Proposed CPA is the first CPA submitted with the PoA for validation.
	(g6)	CER rights transfer	The households installing the biodigesters are the owner of the plants. They shall sign an agreement with the CME to transfer the carbon credit rights of these plants.	Criterion satisfied. The households installing the biodigesters are the owner of the plants. They sign an agreement to transfer the carbon credit rights of these plants in Biodigester completion form (biodigester documents).
	(g7)	fNRB	All CPAs in one country use the same value of fraction of non-renewable biomass. The fraction and source will be fixed for each country upon inclusion of the first CPA.	Criterion satisfied. There is at the moment only one CPA in Burkina Faso. A fNRB study is conducted and the report is available as evidence /23/
	(h1)	Funding from Annex I countries	Each CPA will state clearly in the CPA-DD the source of public funding, if any.	Criterion satisfied. The CPA implementer is the National Biodigester Programme Burkina Faso. Reviewed document included the ODA declaration from National Biodigester Programme Burkina Faso /24/
	(h2)	No diversion of ODA	If funding from Annex -1 parties is received for any CPA, it should be confirmed that funding from Annex-1 parties does not result in a diversion of official development assistance.	The CPA implementer is the National Biodigester Programme Burkina Faso. Reviewed document included the ODA declaration from National Biodigester Programme Burkina Faso /24/
	(i)	Target Group and distribution mechanism	Target group of all the CPAs will be cattle and/or pigs holding household in the rural and semi urban areas of Benin and Burkina Faso, which are using non renewable biomass as cooking fuel; and are interested to use the biogas for cooking purpose. These households will be distributed across the three countries.	Criterion satisfied. Only households fulfilling the criteria are included in the CPA. It was confirmed against CPA database /14/

	(j)	Sampling	<p>A statistically valid sample of the locations where the systems are deployed, with consideration, in the sampling design, of occupancy and demographics differences can be used to determine parameter values used to determine emission reductions, as per relevant requirements in the <i>"Standard for sampling and surveys for CDM project activities and programme of activities v8.0"</i></p> <p>The sampling plan contains information relating to: (a) sampling design; (b) data to be collected; and (c) implementation plan.</p> <p>The CPA complies with the following confidence interval and error requirement:</p> <ul style="list-style-type: none"> • When biennial inspection is chosen a 95% confidence interval and a 10% margin of error requirement for the sampling parameter. • When annual inspection is used, a 90% confidence interval and a 10% margin of error requirement is achieved for the sampled parameters. • In cases where survey results indicate that 90/10 precision or 95/10 precision (above) is not achieved, the lower bound of a 90% or 95% confidence interval of the parameter value is chosen as an alternative to repeating the survey efforts to achieve the 90/10 or 95/10 precision. <p>Sampling across CPA is possible if the CPAs are located in the same country and are disseminating the same type of biogasifiers.</p>	<p>Criterion satisfied. Sampling plan has been developed in accordance with the "Standards For Sampling And Surveys For CDM Project Activities and Programme of Activities" /10/</p> <p>The sample size shall be chosen for a 90/10 precision (90% confidence interval and 10% margin of error) or 95/10 for biennial sampling for parameter values used to determine emission reductions.</p>
	(k)	SSC Limit for CPA	<p>Each CPA will include only so many biogasifiers to fit within a small-scale threshold of no more than 45 MW_{th} of aggregated power output, and will remain within this threshold throughout the crediting period of the CPA</p>	<p>Criterion satisfied. The CPA will include a maximum of 17,491 domestic biogasifiers in operation with a power output of 2.57 kW_{th} thermal per plant (multiplying 17,491 by 2.57, the maximum power output is 44.95 MW_{th}).</p> <p>Document reviewed included the power output of biogasifier calculation sheet included in the emission reduction calculation spreadsheet/17/.</p>
	(l)	De-bundling	<p>As per Methodological Tool 20 – Assessment of debundling for</p>	<p>Criterion satisfied. In this CPA, the biogasifier has a maximum capacity of .57 kW_{th} which is less than 1% of the threshold. So, the</p>

		<p>small-scale project activities paragraph 17:</p> <p><i>If each of the independent subsystems/measures (e.g., biogas digester, solar home system) included in the CPA of a PoA is no larger than 1% of the small-scale thresholds defined by the methodology applied, then that CPA of PoA is exempted from performing de-bundling check i.e., considering as not being a de-bundled component of a large scale activity.</i></p>	SSC –CPA is not a debundled component of another programme activity (CPA) or CDM project activity
Findings	A clarification request (CL 2) was raised reading this issue. All information regarding the findings are detailed in appendix 4.		
Conclusion	<p>The edition of the eligibility criteria in the final version of the CPA-DD is considered appropriate and they are sufficiently objective and comprehensive to permit the assessment of the renewal crediting period for the CPA into the PoA.</p> <p>Therefore, in accordance to the paragraphs 391 and 395 of the VVS-PoA, the audit team confirms that the proposed CPA complies with the eligibility criteria for the renewal of crediting period of the component project activity.</p>		

D.6. Estimated emission reductions or net anthropogenic removals

Means of validation	<p>The validation team has reviewed the CPA assessing the adequate justification of options and equations taken based on the choice of the baseline scenario and context of the CPA in accordance with the applied methodology AMS-I.E. Version 11.0.</p> <p><u>Baseline Emissions</u></p> <p>The baseline emissions are determining Applying the following:</p> $BE_y = B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossilfuel}$ <p>Where:</p> <table> <tr> <td>BE_y</td><td>Baseline Emissions during the year y (tCO₂)</td></tr> <tr> <td>B_y</td><td>Quantity of woody biomass that is substituted or displaced in tonnes</td></tr> <tr> <td>$f_{NRB,y}$</td><td>Fraction of woody biomass used in the absence of the project activity in year y that can be established as non-renewable biomass</td></tr> <tr> <td>$NCV_{biomass}$</td><td>Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne)</td></tr> <tr> <td>$EF_{projected_fossil_fuel}$</td><td>Emission factor for the substitution of non-renewable woody biomass by similar consumers</td></tr> </table> <p>B_y is calculated is as:</p> <p>a) the product of the number of persons served per household multiplied by the number of households and the estimate of average annual consumption of woody biomass per person that is displaced by the project activity:</p>	BE_y	Baseline Emissions during the year y (tCO ₂)	B_y	Quantity of woody biomass that is substituted or displaced in tonnes	$f_{NRB,y}$	Fraction of woody biomass used in the absence of the project activity in year y that can be established as non-renewable biomass	$NCV_{biomass}$	Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne)	$EF_{projected_fossil_fuel}$	Emission factor for the substitution of non-renewable woody biomass by similar consumers
BE_y	Baseline Emissions during the year y (tCO ₂)										
B_y	Quantity of woody biomass that is substituted or displaced in tonnes										
$f_{NRB,y}$	Fraction of woody biomass used in the absence of the project activity in year y that can be established as non-renewable biomass										
$NCV_{biomass}$	Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne)										
$EF_{projected_fossil_fuel}$	Emission factor for the substitution of non-renewable woody biomass by similar consumers										

$$B_y = N_{HH,y} \times N_{p,HH} \times (BC_{BL,PP,y} - BC_{PJ,PP,y})$$

Where:

$N_{p,HH}$	Average number of persons served per household (number)
$BC_{BL,PP,y}$	Average annual consumption of woody biomass per person before the start of the project activity or at the renewal of each crediting period whichever is later (tonnes/person/year)
$BC_{PJ,PP,y}$	Average annual consumption of woody biomass per person in the pre-project devices during the project activity (tonnes/person/year). This parameter shall be considered if it is found that pre-project devices were not completely displaced but continue to be used to some extent.

b) Calculated from the thermal energy generated in the project activity as:

$$B_y = \sum_i^n HG_{p,y,i} \div (NCV_{biomass} \times \eta_{BL})$$

Where:

$HG_{p,y,i}$	Quantity of thermal energy generated by the new renewable energy technology i in the project in year y (TJ)
η_{BL}	Weighted average efficiency of pre-project devices (fraction)

B_y will also be adjusted for plants constructed and operational for less than a year since not all the biodigesters will be constructed in 1st month of any year. Construction will be ongoing, and plants will be added every month. Thus, the plants constructed in January will be operational for 11 months of that year, the plants constructed in February will be operational for 10 months of that year and so on. B_y will be adjusted in pro rata basis for such plants. Number of biodigesters included in the monitoring period and are operational for one year (N) will be calculated with the following formula:

$$N_{HH} = \sum_{j=1}^n i_j \times j/12$$

Where:

i_j	Number of biodigesters in use for "j" months during the monitoring period. i_j will be considered from the plants installed in the monitoring period and previous monitoring periods.
j	Number of months that the plants are in use during the monitoring period (j=1,2,3,n)

Project Emissions

Project emissions sources mentioned in chapter 5.4 of the applied methodology are not applicable. The CPA is not involved in the cultivation and processing of biomass. Then, project emissions are zero.

Leakage

Leakage emissions shall be calculated using the latest version of "TOOL16: Project and leakage emissions from biomass". In tool 16 only paragraph 24 is applicable to biodigesters. However, energy is not used to cultivate biomass or process biomass. The project only utilizes animal waste as feedstock to generate biogas and thereby woody biomass is displaced as cook stove fuel. Then, leakage emissions are zero.

In addition, according the methodology, which specifies that leakage emissions (related to the non-renewable woody biomass saved by the project activity shall be assessed based on ex post surveys of users and the areas from which this woody biomass is sourced (using 90/30 precision for a selection of samples). The following potential source of leakage are considered:

- The use/diversion of non-renewable woody biomass saved under the project activity by non-project households/users that previously used renewable energy sources.

If this leakage assessment quantifies an increase in the use of non-renewable woody biomass used by the non-project households/users that is attributable to the project activity, then B_y is adjusted to account for the quantified leakage. B_y in this CPA is multiplied by a net to gross adjustment factor of 0.95 to account for leakage, in which case surveys are not required.

Therefore, emission reduction is calculated as follow:

$$ER_{CPA,y} = 0.95 \times B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossilfuel}$$

Example of calculation of emission reductions of 1 plant (case a)

Assumptions:

- $N_m = 1$ (1 biodigester)
- $M = 12$ (Plant is operational for 12 months of year in a monitoring period)
- $P = 100\%$ (Operational percentage is assumed as 100% for example calculation, it must be updated)
- Household size: 11.301
- $BC_{BL,PP,y} = 0.5$ (Woody biomass consumption, CDM default)
- $BC_{PJ,PP,y} = 1.121$ (Quantity of wood used by a household in the project situation)
- $f_{NRB,y} = 86.34\%$ (for Burkina Faso)
- $NCV_{biomass} = 0.0156$ TJ/tonne (IPCC default for wood fuel)
- $EF_{projected_fossilfuel} = 73.2$ tCO₂/TJ (as per the methodology)
- Leakage: 0.95

Then

$$B_y = N_{HH,y} \times N_{p,HH} \times (BC_{BL,PP,y} - BC_{PJ,PP,y})$$

$$B_y = 4.53 \text{ tonnes/year}$$

$$ER_{CPA,y} = 0.95 \times B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossilfuel}$$

$$ER_{CPA,y} = 0.95 \times 4.53 \times 86.43\% \times 0.015 \times 73.2$$

$$ER_{CPA,y} = 4.239 \text{ tCO}_2e$$

¹ MPIII CPI survey

	Considering the tentative plan for installation of biodigesters, the emission reduction for the crediting period are estimated as follow:		
	Year	Total Number of plants used for ER calculation	Emission reductions (tCO ₂ e)
	2021 (01/07/2021–31/12/2021)	9,810	41,588
	2022	11,160	47,311
	2023	13,275	56,277
	2024	15,638	66,292
	2025	16,938	71,804
	2026	17,000	72,069
	2027	17,000	72,069
	2028 (01/01/2021–30/06/2028)	17,000	72,069
	Total		427,409
	Total number of crediting years		7
	Annual average over the crediting period		61,058
Findings	A clarification request (CL 3) and a forward action request (FAR 1) were raised reading this issue. All information regarding the findings are detailed in appendix 4.		
Conclusion	<p>AENOR in accordance with paragraph 391 confirms that:</p> <ul style="list-style-type: none">• The equations and parameters applied to calculate GHG emission reductions for the CPA are in accordance with the modalities in the corresponding generic CPA;• The methodology and, where applicable, the standardized baselines and the other methodological regulatory documents have been applied correctly to calculate baseline, project and leakage GHG emissions as well as GHG emission reductions or net anthropogenic GHG removals are in accordance with the modalities in the corresponding generic CPA;		

D.7. Validity of monitoring plan

Means of validation	<p>The audit team checked that the monitoring plan complies with the applicable requirements in the Project standard, registered Monitoring plan, and the valid version of the methodology and tools that are applicable to the CPA.</p> <p>The parameters included in the monitoring plan to be monitored during the second crediting period are the following:</p> <table border="1"> <tbody> <tr> <td><i>Date</i></td><td> <p><i>Date of commissioning of project device of type i</i></p> <p>Is the actual date of commissioning of the project device, will be obtained from the plant completion form. The CME and CPA implementer keep a paper and electronic record of the installed systems.</p> </td></tr> <tr> <td><i>months</i></td><td> <p><i>Date of commissioning of batch j</i></p> <p>Is number of months that the plants are in use during the monitoring period, will be obtained from plant completion form and database. Not all the biodigesters will be constructed in 1st month of any year. Construction will be ongoing and plants will be added every month.</p> </td></tr> <tr> <td><i>P</i></td><td> <p><i>Operational percentage of the biodigesters in the monitoring period (this will be estimated from the biogas users survey. "P" will be estimated from all the biodigesters)</i></p> <p>It will be obtained from Annual Biogas User Survey. The CME will arrange for conduct the annual biogas user survey. Operational</p> </td></tr> </tbody> </table>	<i>Date</i>	<p><i>Date of commissioning of project device of type i</i></p> <p>Is the actual date of commissioning of the project device, will be obtained from the plant completion form. The CME and CPA implementer keep a paper and electronic record of the installed systems.</p>	<i>months</i>	<p><i>Date of commissioning of batch j</i></p> <p>Is number of months that the plants are in use during the monitoring period, will be obtained from plant completion form and database. Not all the biodigesters will be constructed in 1st month of any year. Construction will be ongoing and plants will be added every month.</p>	<i>P</i>	<p><i>Operational percentage of the biodigesters in the monitoring period (this will be estimated from the biogas users survey. "P" will be estimated from all the biodigesters)</i></p> <p>It will be obtained from Annual Biogas User Survey. The CME will arrange for conduct the annual biogas user survey. Operational</p>
<i>Date</i>	<p><i>Date of commissioning of project device of type i</i></p> <p>Is the actual date of commissioning of the project device, will be obtained from the plant completion form. The CME and CPA implementer keep a paper and electronic record of the installed systems.</p>						
<i>months</i>	<p><i>Date of commissioning of batch j</i></p> <p>Is number of months that the plants are in use during the monitoring period, will be obtained from plant completion form and database. Not all the biodigesters will be constructed in 1st month of any year. Construction will be ongoing and plants will be added every month.</p>						
<i>P</i>	<p><i>Operational percentage of the biodigesters in the monitoring period (this will be estimated from the biogas users survey. "P" will be estimated from all the biodigesters)</i></p> <p>It will be obtained from Annual Biogas User Survey. The CME will arrange for conduct the annual biogas user survey. Operational</p>						

		plants will be identified by asking the sample households if the plant installed in his/her house is producing gas regularly or not. This survey will also include questions to identify the users' satisfaction and the performance of the biodigester. For ex ante estimation, 100% is used
	$N_{p,HH}$	<i>Average number of persons served per household (number)</i> This is applicable If option b is used to calculate, monitored by surveys annually ex post. The CME will conduct the annual biogas user survey in which households will be asked what the size is of their household. Measured on an annual basis. For ex ante estimation, 11.30 is used
	$BC_{PJ,HH,y}$	<i>Average annual consumption of woody biomass per household in the pre-project devices during the project activity (tonnes/household/year). This parameter shall be considered if it is found that pre-project devices were not completely displaced but continue to be used to some extent.</i> This parameter will be monitored by surveys. Monitoring shall consist of estimation of all project devices or a representative sample thereof, at least once every two years (biennial). For ex ante estimation, 1.12 is used
	η_{BL}	<i>Weighted average efficiency of pre-project devices (fraction)</i> 0.10 - if the replaced system is a three stone fire, or a conventional system with no improved combustion air supply or flue gas ventilation system, i.e. without a grate or a chimney. 0.2 - for other types of systems Weighted average values shall be used if more than one type of system is being replaced. If not measured using representative sampling methods or based on referenced literature values (fraction)
	$HG_{p,y,i}$	<i>Quantity of thermal energy generated by the new renewable energy technology i in the project in year y (TJ)</i> This parameter will be determined by survey data or default value ($0.13 \text{ Nm}^3 \cdot \text{m}^{-3} \cdot \text{day}^{-1}$) or representative measurements
Findings		No findings were raised regarding this issue.
Conclusion		In AENOR's opinion, the CME have documented in the monitoring plan of the final version of the CPA-DD all requirements established by the latest approved version of the methodology and tools applied to determine the emissions reductions of CPA. According to the paragraph 391, validation team confirms that all parameters to be monitored applicable to the CPA are in accordance with the generic CPA in the latest version of the PoA-DD (updated PoA-DD, version 1.7). In addition, the quality control and quality assurance to apply for monitoring activities, have also been detailed; authority and responsibilities are well defined, and quality assurance and quality control procedures are managed in order to reduce the uncertainties of the emissions reduction monitored.

D.8. Crediting period

Means of validation	The start date and the crediting period of the CPA are correctly detailed in the documents. In the final version of the CPA-DD, the starting date has been defined as 01/07/2021, the day after finishing the first crediting period (01/07/2014 to 30/06/2021). PoA duration goes from 29/08/2013 to 28/08/2041 and first crediting period goes from 24/06/2014 to 23/06/2021.
Findings	No findings were raised on this issue
Conclusion	The starting date and crediting period of the CPA ha been correctly and transparently stated in corresponding CPA-DD in accordance with the CDM project standard for programmes of activities, version 02.0 and related POA.

	According to the paragraph 199 of the VVS-PoA, the audit team confirms that the information provided in the proposed CPA is consistent with the requirements in the “CDM project standard for programmes of activities”.
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D.9. CME and project participants

Means of validation	Audit team checked whether the name of the project participant included in the updated CPA-DD are consistent with the name of the project participant in the latest version of the MoC statement /15/. Same information from the register MoC are included the CPA-DD
Findings	No findings were raised regarding this issue.
Conclusion	In AENOR's opinion no entities other than those authorized as the project participants of the proposed CDM project activity are included the CPA-DD.

D.10. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents ²	N	-	-
Corrections	N	-	-
Changes to the start date of the crediting period of component project activity	N	-	-
Inclusion of monitoring plan	N	-	-
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied methodologies, standardized baselines, or other methodological regulatory documents	N	-	-
Changes to the project design	N	-	-
Changes specific to afforestation and reforestation activities	N	-	-
Others (please specify)	N	-	-

SECTION E. Internal quality control

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

SECTION F. Validation opinion

>>

AENOR has performed the validation of the Renewal of crediting period of component project activity “National Biodigester Programme Burkina Faso – CPA01” in Burkina Faso. The validation was performed on the basis of UNFCCC criteria and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The calculation of ex-ante emission reductions is carried out in a transparent and conservative manner, so the project activity is likely to achieve the average estimated amount of emission reductions of 61,058 tCO₂e per year (average) over the 2nd renewable crediting period.

The review of the CPA documentation and additional documents related to baseline and monitoring methodology, and the subsequent background investigation, follow-up interviews and review of

² Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

comments by parties and stakeholders have provided AENOR with sufficient evidence to validate the fulfilment of the stated criteria.

The conclusions can be summarised in detail as follows:

- The updated CPA-DD has been completed using the valid version of the applicable CPA-DD form, following the instructions therein. Also, the information transferred to the later version of the CPA-DD is materially the same as the registered CPA-DD;
- The emission reduction has been carried out in a transparent and conservative manner, following the approved methodology AMS-I.E. version 11.0.
- The CPA-DD is in line with all relevant host country criteria and with all relevant UNFCCC requirements for CDM.

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

Madrid, 22 March 2021



Richard Daniel GONZALES TOLEDO
Team Leader



Jose Luis FUENTES PEREZ
Climate change Manager

Appendix 1. Abbreviations

Abbreviations	Full texts
AMS-I.E.	AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user --- Version 11.0
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM-CPA-DD	CDM Component of programme activity design document
CDM-PoA-DD	CDM Programme of activities design document
CER	Certified Emission Reductions
CI	CPA Implementer
CL	Clarification Action
CME	Coordinating and Managing Entity
CO2	Carbon dioxide
DECISION 17/CP.7	Modalities and Procedures for a Clean Development Mechanism as Defined in Article 12 of the Kyoto Protocol
DOE	Designated operational Entity
DR	Desk review
EB	Executive Board of the CDM of the Kyoto Protocol
FAR	Forward action request
GHG	Greenhouse Gasses
GWh	Electrical Giga Watt hour
IPCC	Intergovernmental Panel on Climate Change
MoC	Modality of Communication
MP	Monitoring plan
MWth	Megawatt thermal
PS-PoA	CDM project standard for programmes of activities, Version 02.0
PP	Project participant
RCP	Renewal of crediting period
tCO2e	Carbon dioxide equivalent tonnes
UNFCCC	United Nations Framework Convention on Climate Change
VVS-PoA	CDM validation and verification standard for programmes of activities, Version 02.0

Appendix 2. Competence of team members and technical reviewers

CERTIFICATE OF QUALIFICATION

Subject: Validation and Technical Review Team for “National Biodigester Programme Burkina Faso – CPA01”

Madrid, 22/03/2021

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

Name: **Richard Daniel GONZALES TOLEDO**

CDM team leader: YES

CDM validator: YES

CDM verifier: N.A.

External technical expert: N.A.

Technical areas related with the project activity:

TA 1.2. Renewables

A handwritten signature in blue ink, consisting of a stylized 'J' and 'F' intertwined.

Jose Luis Fuentes
Climate change manager

CERTIFICATE OF QUALIFICATION

Subject: Validation and Technical Review Team for “National Biodigester Programme Burkina Faso – CPA01”

Madrid, 22/03/2021

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

Name: **Luis Javier ARRIBAS ALONSO**

CDM team leader: N.A

CDM validator: YES

CDM verifier: N.A.

External technical expert: N.A.

Technical areas related with the project activity:

TA 1.2. Renewables

A handwritten signature in blue ink, appearing to be 'JL Fuentes', with a stylized, cursive script.

Jose Luis Fuentes
Climate change manager

CERTIFICATE OF QUALIFICATION

Subject: Validation and Technical Review Team for “National Biodigester Programme Burkina Faso – CPA01”

Madrid, 22/03/2021

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

Name: **Elena LLORENTE PEREZ**

CDM team leader: N.A

CDM Technical reviewer: YES

CDM verifier: N.A.

External technical expert: N.A.

Technical areas related with the project activity:

TA 1.2. Renewables

A handwritten signature in blue ink, consisting of a large loop followed by a series of vertical strokes and a final horizontal stroke.

Jose Luis Fuentes
Climate change manager

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	UNFCCC	CDM validation and verification standard for programmes of activities	version 02.0	UNFCCC Website
2	UNFCCC	CDM project standard for programmes of activities	Version 02.0	UNFCCC Website
3	UNFCCC	Methodological Tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period	Version 03.0.1	UNFCCC Website
4	UNFCCC	Updated PoA-DD for renewal of crediting period	Version 1.7	UNFCCC Website
5	UNFCCC	Approved Methodology: AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user	Version 11.0	UNFCCC Website
6	UNFCCC	Methodological tool: Calculation of the fraction of non-renewable biomass,	version 02.0	UNFCCC Website
7	UNFCCC	Methodological tool: Project and leakage emissions from biomass,	version 04.0	UNFCCC Website
8	UNFCCC	Methodological tool: Assessment of de-bundling for small-scale project activities,	version 04.0	UNFCCC Website
9	UNFCCC	Methodological tool: Methodological tool: Positive lists of technologies,	version 02.0	UNFCCC Website
10	UNFCCC	Standard for sampling and surveys for CDM project activities and programme of activities version 08.0. UNFCCC Website	version 04.0	UNFCCC Website
11	CME	Initial version of CDM-CPA-DD,	version 1.1	CME
12	CME	Final version of CDM-CPA-DD,	version 1.6	CME
13	CME	CDM-Generic-CPA-DD	-	CME
14	CME	fNRB calculations spreadsheet	-	CME
15	UNFCCC	Updated Modalities of Communication Statement	-	UNFCCC Website
16	CME	Generic emission reduction calculation for CPAs spreadsheet	-	CME
17	CME	Emission reduction calculation spreadsheet	-	CME
18	UNFCCC	Decision 3/CMP.1 and relevant decisions and guidelines from the EB.	-	
19	AENOR	PoA validation report for renewal crediting period	version 2	AENOR
20	Burkina Faso's Ministry of Mines and Energy	Burkina Faso's National Renewable Energies Action Plan	-	CME
21	CME	Statement of CME that the location and boundary is within Burkina Faso	-	CME
22	CARBON CHECK	CPA Validation report,	Revision number:04	UNFCCC Website

No.	Author	Title	References to the document	Provider
23	CME	Biomass Non-Renewability Assessment, September 2020	-	CME
24	CME	ODA declaration from National Biodigester Programme Burkina Faso	-	CME

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

Table 1. CL from this validation

CL ID	01	Section no.	D.3	Date:	03/11/2020
Description of CL					
<i>CME is requested to clarify whether it is applying the last version of the Guideline on Sampling and surveys for CDM projects activities and programmes of activities”, version 04.0; in order to obtain operational biodigesters number.</i>					
Project participant response					Date: 19/03/2021
The CME applies version 8.0: https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20191129115244256/Meth_stan05.pdf Which is the latest version.					
Documentation provided by project participant					
CPA-DD					
DOE assessment					Date: 22/03/2021
CME confirmed that is using the Standard for Sampling and surveys for CDM project activities and programmes of activities Version 08.0. Then, CL 1 is closed.					

CL ID	02	Section no.	D.5	Date:	03/11/2020
Description of CL					
CME is requested to provide updated evidences (if applicable) regarding eligibility assessment inclusion of the CPA. i.e.: Statement of CME that the location and boundary is within Burkina Faso or Benin (ref a); UNEP Riseo (ref b); CPA database (ref c)...					
Project participant response				Date:	19/03/2021
Ref.	Compliance by the proposed CPA				
a	Statement of CME that the CPA is in Burkina Faso – this is demonstrated based on the CPA database and the CPA-DD in which it is described that the CPA is in Burkina Faso				
b	UNEP Riseo database: https://www.cdmpipeline.org/ has been checked. No other domestic biogas project is registered in Burkina Faso				
c	CPA database				
d	The start date is accepted and validated in CPI				
e	Demonstrated in CPA-DD				
f	Demonstrated in CPA-DD				
g1	CPA level stakeholder report (already shared with DOE)				
g2	Demonstrated in CPA-DD				
g3	CPA database (small change in the description of the requirement, hard copies could also be replaced by digital copies as program implementers are moving, or have moved from used paper to digital tools to collect data)				
g4	CPA implementer contract. In CPI it was already demonstrated that the program was established – no changes occurred during the renewal process and the CPA implementer remains the same entity				
g5	Already demonstrated in CPI				
g6	Demonstrated in the CPA-DD				
h1	Statement of CPA implementer on ODA diversion				
i	CPA database				
j	Demonstrated in the CPA-DD				
k	Demonstrated in the CPA-DD				
i	Demonstrated in the CPA-DD				
Documentation provided by project participant					

Based on the assessment above, the following document are included in the response package:	
<ul style="list-style-type: none"> CPA database (latest verified database is included (Cumulative DBase CPA01 MPIV) Statement of CPA implementer on ODA diversion (20201214 ODA declaration PNB) 	
DOE assessment	Date: 22/03/2021
After reviewing provide documentation, verification team confirm that the evidences correspond to the updated information. Then, CL 2 is closed.	

CL ID	03	Section no.	D.6.	Date: 03/11/2020
Description of CL				
<i>CME is requested to clarify the assumption for determining the number of biogas plants for ex-ante calculation in specific for year 2021 to 2025.</i>				
Project participant response				Date: 19/03/2021
The number of biodigesters used for the ex-ante calculation is based on the construction planning in the PNB-BF plan 2021-2025.				
Documentation provided by project participant				
-				
DOE assessment				Date: 22/03/2021
PP has provided sufficient evidence regarding the number of biogas plants assumptions. Then, CL 3 is closed				

Table 2. CAR from this validation

CAR ID	01	Section no.	D.2.	Date: 03/11/2020
Description of CAR				
<i>The following sections of updated CPA-DD has not been completed following the instructions for completing the PoA-DD form. i.e.:</i>				
<ul style="list-style-type: none"> ✓ Section B.1 does not refer to other applies tools (e.g. Methodological Tools: 16, 20, 30, 32) 				
Project participant response				Date: 19/03/2021
This is now included in section B.1				
Documentation provided by project participant				
CPA-DD				
DOE assessment				Date: 22/03/2021
CME has updated the CPA-DD properly. CAR 1 is closed.				

CAR ID	02	Section no.	D.4.	Date: 03/11/2020
Description of CAR				
<i>The CPA-DD does not include a demonstration (Section B.3.) of original baseline validity for the CPA in accordance to the "Methodological tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period". (refer to the paragraph 300 of PoA Standard)</i>				
Project participant response				Date: 19/03/2021
The demonstration of the baseline validity is now included in section B.3. Wood remains the dominant fuel.				
Documentation provided by project participant				
-				
DOE assessment				Date: 22/03/2021
CME has updated the CPA-DD properly. CAR 2 is closed.				

Table 3. FAR from this validation

FAR ID	01	Section no.	D.6	Date: 22/03/2021
Description of FAR				
The coordinating entity shall apply in accordance with the EB meeting report 108, paragraph 7, the following issues:				
<ul style="list-style-type: none"> ✓ Apply any global warming potential values that may be adopted by the CMP for that period in their monitoring reports for any emission reductions achieved on or after 1 January 2021; and ✓ Update their programme design documents in accordance with any requirements of the CMP guidance. 				
Project participant response				Date: DD/MM/YYYY
-				
Documentation provided by project participant				
-				
DOE assessment				Date: DD/MM/YYYY
-				

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none"> • Ensure consistency with version 02.0 of the “CDM validation and verification standard for programmes of activities” (CDM-EB93-A08-STAN); • Make editorial improvements.
02.0	29 December 2017	Revision to align with the requirements of the “CDM validation and verification standard for programme of activities” (version 01.0). Change form symbol from CDM-CPA-RCP-FORM to CDM-CPA-RCPV-FORM.
01.0	3 August 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Renewal of crediting period Keywords: component project activity, crediting period, validation report		