




**Validation report form for renewal of CDM programme of activities period
(Version 02.0)**

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

BASIC INFORMATION

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|---|--|
| Title and UNFCCC reference number of the programme of activities (PoA) | BioLite Improved Cook stoves Programme UNFCCC reference number: 7997 |
| Number and duration of the next period | Number: Second renewal period Duration: 30/12/2019 to 29/12/2026 (including both the days) |
| Version number of the validation report | 03 |
| Completion date of the validation report | 22/10/2020 |
| Version number of PoA-DD to which this report applies | 22.1 |
| Coordinating/managing entity (CME) | BioLite India Private Limited |
| Host Parties | India, Kenya and Uganda |
| Applied methodologies and standardized baselines | AMS II.G, version 11.1, Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass ASB0002-2017: Fuel switch, technology switch and/or methane destruction in the charcoal sector of Uganda, version 1.0 |
| Mandatory sectoral scopes | 3 |
| Conditional sectoral scopes, if applicable | Not applicable |
| Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next programme of activities period | Not applicable |
| Name and UNFCCC reference number of the DOE | E-0052: Carbon Check (India) Private Ltd. |
| Name, position and signature of the approver of the validation report |  Vikash Kumar Singh Compliance Officer |

SECTION A. Executive summary

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The CME, BioLite India Private Limited, has appointed the DOE, Carbon Check (India) Private Ltd., (CC IPL) to perform the validation of the Renewal of the PoA period for the PoA “BioLite Improved Cook stoves Programme” /B02/.

The term “UNFCCC criteria” refers to Article 12 of the Kyoto Protocol, the CDM modalities and procedures and the subsequent decisions by the CDM Executive Board. The independent Validation by the DOE is required on the PoA-DD /01/ to confirm the renewal of PoA period. This report summarises the renewal of PoA period with respect to requirements of CDM VVS for PoAs (version 02.0) /B01-1/. This report contains the findings and resolutions from the validation and a validation opinion.

Scope:

The scope of the validation is defined as an independent and objective review of the revised PoA-DD /01/, the baseline, monitoring plan and other relevant documents. The information in these documents is reviewed against the CDM VVS for PoAs (version 02) /B01-1/, CDM PCP for PoAs (version 02) /B01-3/ and CDM PS for PoAs (version 02) /B01-2/

The report is based on the assessment of the PoA-DD /01/, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (telephone or e-mail) interviews) and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

Purpose, general description and location:

The PoA helps in reducing the emission of greenhouse gases by distribution of the fuel-efficient cook stoves in individual households/SMEs of the host countries identified in the PoA (India, Kenya and Uganda). The fuel-efficient cook stoves are replacing the non-efficient stoves that were being used in the baseline scenario.

Validation methodology and process

The validation has been performed as described in the CDM VVS for PoAs (version 02.0) /B01-1/ and constitutes the following steps:

- Review of the approved revised PoA-DD /B02/
- Review of the revised PoA-DD /01/
- Desk review of relevant documents;
- Interview with representatives of the CME

Conclusion:

The review of the PoA-DD /02/ and the subsequent follow-up interviews have provided Carbon Check with sufficient evidence to determine the programme of activity fulfilment of all the stated criteria. In our opinion, the CDM programme of activity meets all applicable UNFCCC requirements for the CDM for renewal of the PoA period.

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 | | | |
|-----|--|------------------|-----------|--------------|---|-----------------|--------------------|------------|---------------------|
| | | | | | | Document review | On-site inspection | Interviews | Validation findings |
| 1. | Team Leader / Validator / Technical Expert | IR | Agarwalla | Sanjay Kumar | CC IPL | X | NA | X | X |

B.2. Technical reviewer and approver of the validation report for renewal of PoA period

| 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 | Anand | Amit | CC IPL |
| 2. | Approver | IR | Singh | Vikash Kumar | CC IPL |

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

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The validation was performed primarily based on the review of the revised PoA-DD /01/ /02/ and the supporting documentation. Documents reviewed or referenced during the validation are listed in Appendix 3 below.

C.2. On-site inspection

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No on-site visit was conducted. Validation team has checked the site visit requirements mentioned in the CDM VVS for PoAs, version 02 /B01-1/ and concluded to not conduct a site visit for the validation. Desk review of the submitted revised PoA-DD (version 21, dated 15/09/2020) /01/ and supportive evidences was done by the validation team. Validation team conducted remote interviews with the CME representatives on different topics as mentioned in section C.3 below. Also there is no pre-project information that is relevant to the requirements for renewal of the PoA period and may not be traceable after the renewal.

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

C.3. Interviews

| No. | Interviewee | | | Date | Subject | Team member |
|-----|-------------|------------|-------------|------|---------|-------------|
| | Last name | First name | Affiliation | | | |

| | | | | | | |
|----|---------|-------|---|--------------------------|---|------------------------|
| 1. | Wurster | Erik | BioLite India Private Limited | 02/10/2020 16/10/2020 | Discussion on the revised PoA-DD and the proposed RCP | Sanjay Kumar Agarwalla |
| 2. | Lohia | Rohit | Climate Secure India Private Limited (Consultant) | 02/10/2020 16/10/2020 | Discussion on the revised PoA-DD and the proposed RCP | Sanjay Kumar Agarwalla |

C.4. Sampling approach

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Not applicable

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

| Area of validation findings | No. of CL | No. of CAR | No. of FAR |
|---|-----------|------------|------------|
| Programme of activities | - | - | - |
| Compliance with PoA-DD form | 02 | 01 | - |
| Programme of activities period | - | - | - |
| Coordinating/managing entity and the project participants | - | - | - |
| Post-registration changes | - | - | - |
| Generic component project activities | - | - | - |
| Application and selection of methodologies and standardized baselines | 06 | - | - |
| Validity of original baseline or its update | - | 01 | - |
| Estimated emission reductions or net anthropogenic removals | - | - | - |
| Validity of monitoring plan | - | - | - |
| Eligibility criteria for inclusion of CPAs | 01 | - | - |
| Others (please specify) | - | - | - |
| Total | 09 | 02 | - |

SECTION D. Validation findings**D.1. Programme of activities****D.1.1. Compliance with PoA-DD form**

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|----------------------------|---|
| Means of validation | DR |
| Findings | CAR 01, CL 01 and CL 02 were raised and successfully resolved. Please refer to Appendix 4 for further details. |
| Conclusion | <p>CC IPL confirms the following:</p> <ul style="list-style-type: none"> The compliance of the revised PoA-DD /02/ (with the valid version of the applicable PoA-DD form, version 09.0 including the instructions for completion of the form). This complies to the requirement of §284 of PS for PoAs, version 02 /01-2/ and §390 (a) (i) of VVS for PoAs (version 02.0) /B01-1/. CME has used the latest version of the CDM-PoA-DD form and assessment team confirms that the information transferred to the latest version of the PoA-DD /02/ is materially the same as that in the latest revised and approved PoA-DD /B02/. This complies to the requirement of § 381 and §390 (a) (ii) of VVS for PoAs (version 02.0) /B01-1/. <p>The validation team confirms that the requirements of the CDM-PoA-DD FORM /B04/ filling guidelines and VVS for PoAs (version 02.0) /B01-1/ have been appropriately met.</p> |

D.1.2. Programme of activities period

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| Means of validation | DR |
|----------------------------|----|

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| Findings | - |
| Conclusion | As verified from the PoA-DD /02/, the start date of 2 nd PoA period proposed for this PoA is 30/12/2019 with the length of 7 years i.e. from 30/12/2019 to 29/12/2026. The 2 nd PoA period for the PoA commences on the day immediately after the expiration of the 1 st PoA period and hence is in compliance with § 390 (a) (v) of VVS for PoAs, version 02 /B01-1/. |

D.1.3. Coordinating/managing entity and the project participants

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|---|--|---|--|
| Means of validation | DR, I | | |
| Findings | CAR 01 was raised and successfully resolved. Please refer to Appendix 4 for further details. | | |
| Conclusion | The Validation team has checked the names of the coordinating/managing entity and the project participants in the updated PoA-DD along with the project page on UNFCCC website for the PoA 7997 and the latest MoC statement available on UNFCCC web site. | | |
| | As per the updated PoA-DD /02/, the coordinating/managing entity, project participants and parties involved in the programme of activities are: | | |
| | Parties involved | Project participants | Indicate if the Party involved wishes to be considered as project participant (Yes/No) |
| | India (host) | BioLite India Private Limited | No |
| | Kenya (host) | BioLite India Private Limited | No |
| | Uganda (host) | BioLite India Private Limited | No |
| | Norway | The Norwegian Ministry of Climate and Environment | No |
| | Switzerland | International Carbon Portfolio Ltd | No |
| Names of the coordinating/managing entity and the project participants in the updated PoA-DD /02/ are consistent with the names of the coordinating /managing entity and the project participants in the latest version of the MoC statement /B12/ in compliance with § 390 (a) (vi) of VVS for PoAs, version 02 /B01-1/. | | | |

D.1.4. Post-registration changes

| Type of post-registration changes (PRCs) | Confirmation (Y/N) | Validation report for PRCs | |
|--|--------------------|----------------------------|-----------------|
| | | Version | Completion date |
| Corrections | NA | NA | NA |
| Inclusion of monitoring plan | NA | NA | NA |
| Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents | NA | NA | NA |
| Changes to the programme design | NA | NA | NA |
| Addition of CPA inclusion template | NA | NA | NA |
| Changes specific to afforestation and reforestation activities | NA | NA | NA |
| Change of coordinating/managing entity | NA | NA | NA |

D.2. Generic component project activities

D.2.1. Application and selection of methodologies and standardized baselines

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| Means of validation | DR, I |
| Findings | CL 03, CL 04, CL 05, CL 06, CL 07 and CL 09 were raised and successfully resolved. Please refer to Appendix 4 for further details. |

Conclusion

At the time of registration of the PoA-DD, the CME applied the methodology – AMS-II.G, version 03, “Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass”. In the revised PoA-DD /02/, valid version of the methodology has been applied – AMS-II.G, version 11.1, “Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass” /B03/.

The applicability of the methodology is assessed below:

| S/N | Applicability conditions of AMS II.G, version 11.1 | CME justification | DOE assessment |
|-----|---|---|--|
| 1 | This methodology comprises efficiency improvements in thermal applications of non-renewable biomass. Examples of applicable technologies and measures include the introduction of high efficiency biomass fired project devices (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 CPA includes dissemination of high efficiency biomass fired ICS, to replace the existing traditional cookstoves/three stone fires in beneficiary households / SMEs. The same has been developed as eligibility criteria #4 for inclusion of CPA in the PoA. | The CPAs of the PoA will involve high efficiency biomass fired stoves replacing traditional stoves. The justification provided CME is acceptable and validation team confirms that project complies with the same. |
| 2 | In the case of cookstoves, the methodology is applicable to the introduction of single pot or multi pot portable or in-situ cookstoves with rated efficiency of at least 20 per cent. Refer to the requirements indicated in “Data / Parameter table 12” which details the options for testing and certification as well as supporting documentation (e.g. certificate issued by third party or test results) that needs to be presented to the validating DOE. | The CPA shall include only those ICS that have a rated thermal efficiency of at least 20% (for Kenya and Uganda) and at least 25% (for India). The same has been developed as an eligibility criterion #4 for inclusion of CPA in the PoA. | The defined minimum efficiency 25% for India and 20% for Kenya and Uganda of improved cookstove is same as defined in the earlier version of applied methodology AMS.II.G, version 03. Thus, there is no change in minimum efficiency requirement for ICS in the latest version of the applied methodology AMS.II.G (version 11.1) /B03/. The justification provided CME is acceptable and validation team confirms that project complies with the same. |
| 3 | The aggregate energy savings of a single project activity shall not exceed the equivalent of | The CPA is a type II category CPA. Para 51 of the AMS II.G. version 11.1 states that in case | In the generic CPA of the revised PoA-DD, it has been confirmed that the |

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| | | <p>60 GWh per year or 180 GWh_{th} per year in fuel input</p> | <p>a CPA is solely comprised of “microscale CDM units” as defined in Tool 19, the coordinating / managing entity is not required to demonstrate compliance with the small-scale CDM thresholds at the aggregate level of the CPA. In such cases:</p> <ul style="list-style-type: none"> • The definition of ‘microscale CDM units’ provided under Tool 19, “Demonstration of additionality of microscale project activities” version 9.0, section 6, para 14 and 15, shall apply; • For CPAs applying microscale thresholds at the unit level rather than at the aggregate level of the CPA, the term ‘project activities’ in paragraphs 4 and 11-13 above shall be read as ‘units’. If each of the units contained in the CPA satisfies the condition to qualify as a ‘microscale CDM unit’, then the coordinating/managing entity is not required to demonstrate compliance of the CPA with the methodological thresholds at the aggregate level of the CPA. In such cases, the requirements related to de-bundling stated in paragraphs 6 above do not apply. <p>If the CPA does not qualify with para 51 of the methodology, then aggregate annual</p> | <p>CPAs of the PoA will be either meet the micro scale threshold at the unit level rather than at the aggregate level of the CPA or else meet the threshold of small scale. The micro scale CPAs will satisfy paragraph 12 of Tool 19 and will consist of solely microscale CDM units. Paragraph 15 of the Tool 19 /B08/ states: <i>“If each of the units contained in the CPA satisfies the condition to qualify as a ‘microscale CDM unit’, then the coordinating/managing entity is not required to demonstrate compliance of the CPA with the microscale or small-scale thresholds at the aggregate level of the CPA”.</i></p> <p>For the CPAs which do not qualify under micro scale, the small scale threshold of energy savings of 180 GWh_{th}/year will be applicable. The justification provided CME is acceptable and validation team confirms the project complies with this applicability criteria.</p> |
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| | | | <p>thermal energy savings shall be limited to 180GWh_{th} for the CPA.</p> <p>Thus, compliance with the requirement of methodology and para 124(m) of Standard: CDM project standard for programmes of activities, version 2.0, shall be ensured, by eligibility criteria #6):</p> | |
| | 4 | <p>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</p> | <p>India: State of Forest Report (FSI) 1987¹ i.e., prior to 1989 clearly states for India that the firewood consumption in 1987 is estimated at 157 million tonnes or 235 million m³. However, the production of firewood from forests estimated by FSI (Forest Survey of India) is only 40 million m³. Thus, there was a gap of 195 million m³ in demand and production of firewood. This also leads to a conclusion that upto 83% (195/235) of the firewood used was non-renewable prior to 1989. It may also be noted that FSI is an organisation under the Ministry of Environment & Forests, Government of India and its principal mandate is to conduct survey and assessment of forest resources in the country. Thus, it is established that non-renewable biomass has been used in India since 31 December 1989, using official reports of the Government of India. Hence the applicability criterion is met.</p> <p>Kenya: Many examples from published literature show how cutting and usage of non-renewable biomass have been a critical issue on the Kenyan territory in the last decades. In</p> | <p>The defined non renewable biomass usage in the project region since since 31st December 1989 is same as defined in the earlier AMS.II.G, version 03. Thus, there is no further assessment done for the criterion. The justification provided CME is acceptable and validation team confirms project complies with the same.</p> |

¹ http://www.fsi.nic.in/sfr1987/sfr_1987.pdf (page 46 ; 3.7 - 3.9)

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| | | <p>particular, UNESCO² reported in 2006. how "Since independence in 1963, Kenya's forest cover has shrunk from 10% of its 582,650 km² territory to a mere 1.7%". Likewise, FAO data show a decline in forest areas and growing stock in forest land. In the last 20 years, the forested area in Kenya reduced by 0.35% per year between 1990 and 2000, by 0.34% per year between 2000 and 2005 and by 0.31% per year between 2005 and 2010³.</p> <p>Uganda: Forest degradation in Uganda has been a consistent problem for decades, and non-renewable biomass has been used since before 31 Dec 1989. According to the FOSA study in Uganda, from 1988 to 1999, wood production increased by 1% faster than the population growth. In a country with already high levels of population growth, this implies an over exploitation of forest resources. ⁴ During the rule of Idi Amin (1971-1979), civil and political conflict had severe consequences for forest resources in Uganda. From 1971 to 1987, Uganda lost 50 percent of its forests, including virtually all of its primary forests. Between 1990 and 2005, Uganda lost 26.3 percent of its remaining forest cover, and current deforestation continues at a rate of 2.2</p> | |
|--|--|--|--|

² UNESCO (2006). Fighting desertification in Kenya, one tree at a time. Courier, 3, p.7,
<http://unesdoc.unesco.org/images/0019/001915/191578e.pdf#193846>

³ Source: FAO (2010): Global Forest Resources Assessment 2010, Country Report Kenya, p.9 and p.25,
<http://www.fao.org/docrep/013/al543E/al543E.pdf>

⁴ FOSA 2001, <http://www.fao.org/DOCREP/004/AC427E/AC427E07.htm>

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| | | | percent per year. ⁵ Altogether, after analyzing the renewability of the biomass from forests and non-forests in Uganda, there is strong evidence of the use of non-renewable biomass in Uganda since before 1989. | |
| | 5 | For cases where the biomass is sourced from renewable sources, the project participants should use a corresponding Type I methodology | Not Applicable (refer f _{NRB} assessment above) | This criterion is not applicable for the project. |
| | 6 | If the project device requires a specific fuel for this device (e.g. briquettes, pellets, woodchips), the consumption of the fuel should be monitored during the crediting period. | Refer the monitoring plan section I.7.1. below. The same has been developed as a monitoring parameter, <i>Cons_{processed fuel}</i> , applicable in case of processed fuels (briquettes, pellets, woodchips). | In case of usage of a specific fuel in the project devices, CME has opted for monitoring of this fuel in the PoA-DD in line with the applied methodology AMS-II.G, version 11.1. |
| | 7 | The CDM-PDD or CDM-PoA-DD/CPA-DD shall explain the proposed method for distribution of project devices including the method to avoid double counting of emission reductions such as unique identifications of product and end-user locations (e.g. programme logo). | Refer the applicability criterion #2 for inclusion of CPA in the PoA. This shall ensure that neither the CPA nor the project devices are counted twice. | Validaton team has checked the revised PoA-DD and found that CME has defined eligibility criterion number 2 for double counting check to ensure compliance with this requirement of the applied methodology, AMS.II.G, version 11.1 /B03/. The justification provided by the CME is acceptable and validation team confirms the project complies with this applicability criterion. |
| | 8 | The CDM-PDD or CDM-PoA-DD/CPA-DD shall also explain how the proposed procedures prevent double counting of emission reductions, for example to avoid that project stove manufacturers, wholesale providers or | At the time of ICS distribution, the stove beneficiary transfers the ownership of the emission reductions, generated from the use of the project device, to the CME thereby avoiding any subsequent | Validaton team has checked the revised PoA-DD and found that CME has defined eligibility criterion number 2 for double counting check to ensure compliance with |

⁵ MongaBay, <http://rainforests.mongabay.com/20uganda.htm>

| | | | |
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| | others claim credit for emission reductions from the project devices. | double claim on ownership of credits. Refer the applicability criterion #2 for inclusion of CPA in the PoA. | this requirement of the applied methodology, AMS.II.G, version 11.1 /B03/. The justification provided by the CME is acceptable and validation team confirms the project complies with this applicability criterion. |
| | The PoA/Generic CPA part of the PoA-DD, fulfills all relevant criteria of the applied methodology AMS-II.G, version 11.1 /B03/. CME has used the valid version of the applied methodology. However, the applicability criteria will again be demonstrated at the CPA level where the actual project implementation or the distribution of improved cook stoves takes place. Hence the selected version of the applied methodology is appropriate for this PoA/Generic CPA part of the PoA-DD. Hence, the same is in compliance with §385 of VVS for PoAs, version 02 /B01-1/. | | |

D.2.2. Validity of original baseline or its update

| Means of validation | DR, I | | | | | | |
|--|--|-------------------|-----------------------------------|--|---|-----------------------------|---|
| Findings | CAR 02 was raised and successfully resolved. Please refer to Appendix 4 for further details. | | | | | | |
| Conclusion | <p>In accordance to § 382 of CDM VVS for PoAs, version 02.0 /B01-1/, the validation team reviewed the revised PoA-DD /02/ to assess the impact of new national and/or sectoral policies and circumstances existing at the time of requesting renewal of PoA period on the modalities to estimate baseline GHG emissions for the subsequent crediting period of each corresponding CPA, without reassessing the baseline scenario.</p> <p>The validation team assessed whether data and parameters used for determining the original baseline, that were determined ex-ante and not monitored during the PoA period and are still valid, and also whether the CME updated such data and parameters in accordance with the “Methodological tool 11: 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 /B09/.</p> <p>CME has applied the steps provided in the above stated Tool 11, for demonstration of validity of original baseline. CME has defined the data source for the emission factor, values in line with applied methodology /B03/.</p> <p>During the 1st PoA period, PoA was registered applying small scale methodology, AMS.II.G. version 03.0. During 2nd renewal period, PoA has applied valid latest version i.e. 11.1 of the same methodology AMS-II.G /B03/.</p> <p>Validation team confirms that data and parameters that were only determined at the start of the crediting period and not monitored during the crediting period are still valid except the ex-ante parameter which are updated in accordance with applied methodology i.e. AMS.II.G, version 11.1.</p> <table border="1"> <thead> <tr> <th>Ex-ante Parameter</th><th>During 2nd PoA Period</th></tr> </thead> <tbody> <tr> <td>B_{old,i,j} (tonnes/stove/year)</td><td>The value shall be determined at the time of CPA inclusion in line with the applied methodology /B03/</td></tr> <tr> <td>f_{NRB} (fraction)</td><td>Uganda: 0.88 f_{NRB} value for Uganda has been adopted from ASB0002-2017: Fuel switch, technology switch and/or methane destruction in the charcoal sector of Uganda, version 1.0 which is deemed acceptable to the validation team. UNFCCC has clarified the</td></tr> </tbody> </table> | Ex-ante Parameter | During 2 nd PoA Period | B _{old,i,j} (tonnes/stove/year) | The value shall be determined at the time of CPA inclusion in line with the applied methodology /B03/ | f _{NRB} (fraction) | Uganda: 0.88 f _{NRB} value for Uganda has been adopted from ASB0002-2017: Fuel switch, technology switch and/or methane destruction in the charcoal sector of Uganda, version 1.0 which is deemed acceptable to the validation team. UNFCCC has clarified the |
| Ex-ante Parameter | During 2 nd PoA Period | | | | | | |
| B _{old,i,j} (tonnes/stove/year) | The value shall be determined at the time of CPA inclusion in line with the applied methodology /B03/ | | | | | | |
| f _{NRB} (fraction) | Uganda: 0.88 f _{NRB} value for Uganda has been adopted from ASB0002-2017: Fuel switch, technology switch and/or methane destruction in the charcoal sector of Uganda, version 1.0 which is deemed acceptable to the validation team. UNFCCC has clarified the | | | | | | |

| | | |
|---|---|--|
| | | applicability of f_{NRB} value from ASB0002 for AMS-II.G methodology (https://cdm.unfccc.int/methodologies/standard_bas_e/2015/sb154.html) /B13/. This value is fixed for the second PoA period. For India and Kenya, the f_{NRB} values will be calculated in line with the methodological tool 30 at the time of CPA inclusion. |
| | NCV _{biomass} (TJ/tonne_ | 0.0156 |
| | EF _{projected_fossilfuel} (tCO ₂ /TJ) | As per methodological choice: India – 64.4 Kenya – 73.2 Uganda – 73.2 |
| <p>Values for “NCV_{biomass}”, “EF_{projected_fossilfuel}” “LAFy”, have been adopted from the latest version of the applied methodology, i.e. AMS-II.G, version 11.1 /B03/ and hence deemed acceptable.</p> <p>The validation team confirms the validity of the baseline has been correctly assessed and the parameters are updated as per the 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 in the PoA-DD submitted for the renewal of PoA period.</p> <p>The validation team took cognizance of §287 of PS for PoAs, version 02 /B01-2/ and §382 of VVS for PoAs (version 02.0) /B01-1/.</p> | | |

D.2.3. Estimated emission reductions or net anthropogenic removals

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|----------------------------|--|
| Means of validation | DR, I |
| Findings | - |
| Conclusion | <p>Validation team has checked the modalities for the calculation of the GHG emission reductions in the generic CPA part of the revised PoA-DD /02/ in accordance with the applied version of the methodology, i.e. AMS-II.G, version 11.1 /B03/. The parameters and equations presented in the PoA-DD /02/ have been compared with the information and requirements presented in the methodology /B03/ and other applicable methodological tools.</p> <p>The validation team confirms that:</p> <ul style="list-style-type: none"> • All assumptions and data used by the CME are listed in the generic CPA part of the PoA-DD /02/, including their references and sources; • All documentation used by CME as the basis for assumptions and source of data are correctly quoted and interpreted in the PoA-DD /02/; • All values used in the PoA-DD /02/ are considered reasonable in the context of the proposed PoA; • The baseline methodology has been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions; • All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PoA-DD /02/. <p>The validation team took cognizance §390 (a) (iv) of VVS for PoAs, version 02.0 /B01-1/.</p> |

D.2.4. Validity of monitoring plan

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|----------------------------|---|
| Means of validation | DR, I |
| Findings | - |
| Conclusion | <p>The monitoring plan in the generic CPA part of the revised PoA-DD /02/, is in compliance with the applied methodology AMS- II.G., version 11.1 /B03/. The project was originally registered applying small scale methodology AMS-II.G, version 03. For the 2nd PoA period, valid version i.e. version 11.1 of the same methodology AMS-II.G</p> |

has been applied and the monitoring plan of the same has been adopted. CME has adopted the following monitoring parameters in the revised PoA-DD as per the methodology, AMS-II.G, version 11.1:

| Parameter | Data unit | Description | Monitoring Frequency |
|---|---------------|--|---|
| $N_{y,i,j}$ | Number | Number of project devices of type i and batch j operating in a year | At least once every two years (biennial) |
| μ_y | Fraction | Adjustment to account for any continued use of pre-project devices during the year y | At least once every two years (biennial) |
| $\eta_{new,i,j}$ | Fraction | Efficiency of the device type i and batch j being deployed as part of the project activity | 1. Once at the time of inclusion of first unit of stove model in the CPA for design/rated efficiency 2. Annually for first batch of ICS type i in case of option c) of para 37 1. At-least biennially in case of option d) of para 37 |
| η_{old} | Fraction | Efficiency of baseline device | Once at the time of stove distribution |
| $NCV_{biomass}$ | TJ/tonne | Net calorific value of the non-renewable woody biomass, briquettes or charcoal used in project devices | Once in the crediting period in case of woody biomass Annual for briquettes/pellets |
| $Cons_{proc}$ | Tonnes/device | Consumption of processed fuel (briquettes/pellets) per device | At-least biennially |
| Date of commissioning of project device i | Date | Date of commissioning of individual stove | Recorded at the time of installation of project devices |
| $N_{d,HH}$ | Number | Number of project devices distributed per household | Once at the time of installation of project devices |

Validation team can confirm that the parameters to be determined ex-post have been presented correctly and according to requirements of the applied methodology AMS-II.G version 11.1 /B03/ and that CME shall be able to monitor and report emission reductions ex-post.

Validation team has also checked the sampling plan and found in compliance with the applied methodology /B03/, Standard for sampling and surveys for CDM project activities and programme of activities, version 08.0 /B06/ and Guidelines for sampling and survey for CDM project activities and programme of activities Version 04.0 /B07/.

D.2.5. Eligibility criteria for inclusion of CPAs

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|---------------------|---|----------------------------------|--|-----------------------------------|----------------|
| Means validation of | DR, I | | | | |
| Findings | CL 08 was raised and successfully resolved. Please refer to Appendix 4 for further details. | | | | |
| Conclusion | No. | Eligibility criterion - Category | Eligibility criterion - Required condition | Supporting evidence for inclusion | DOE assessment |

| | | | | | |
|--|----|-------------------------|--|---|--|
| | 1. | Geographical boundaries | Each CPA will be located within the geographical boundary of India, Kenya or Uganda. | Sales database listing the country of installation of ICS under the CPA | According to §124 (a), of the PS for PoAs, v2, the geographical boundary of each CPA, shall be consistent with the geographical boundary set in the PoA. The PoA boundary is set as India, Kenya or Uganda. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. |
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| | 2. | Avoiding double counting of GHG ERs | For each CPA, CME will check for avoidance of double counting of ERs by: <ol style="list-style-type: none"> 1. Ensuring system of Unique Serial numbering of ICS included in the CPA 2. Maintaining a database of end users (name, address and telephone number (if available)) 3. Provisioning a system to transfer the ownership of emission reductions, generated by project devices, from end user to CME. | 1. Sales database listing the following: <ol style="list-style-type: none"> a. Unique Serial number of ICS distributed under the PoA b. end users' details (name, address and telephone number (if available)) 2. System by which the project device beneficiary is made aware of CER ownership with CME | Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §124 (b) of the PS for PoAs, v2. Validation team based on review PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion—category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. |
| | 3. | Avoiding double counting of CPA | For each CPA, CME will check for avoid double counting of CPA proposed for inclusion in the PoA to be: <ol style="list-style-type: none"> 1. neither registered as an individual | Confirmation by CME | Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §124 (c) of the PS for |

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| | | | <p>CDM project activity</p> <p>2. nor included in another registered PoA</p> <p>3. neither de-registered as a CPA from an existing PoA</p> | | <p>PoAs, v2. Validation team based on review PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion–category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p> |
| | 4. | Specification of technology / measure | <p>The CPA shall include: For India: fuel-efficient wood / charcoal cook stoves (ICS) with single / multiple pots model that meet the following:</p> <p>1. Thermal efficiency greater than or equal to 25% (IS Standard 13152 (Part I):1991 by the Bureau of Indian Standard)</p> | <p>1. Project device specifications</p> <p>2. Thermal efficiency Test results</p> | <p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (d) including foot note 23 and 24 and 124 (f) of the PS for PoAs, v2. All CPAs utilizing this</p> |

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| | | <p>2. CO/CO₂ emission ratio less than 0.04⁶</p> <p>3. Total Solid particulate emission less than 2mg/m³</p> <p>4. Surface temperature not exceeding 60°C</p> <p>5. Temperature of synthetic rubber/plastic components if used shall not exceed 60°C.</p> <p>6. Portable/fixed & stable</p> <p>7. Biomass savings of more than 50%⁷</p> <p>For Kenya and Uganda:</p> <p>1. fuel-efficient wood / charcoal cook stoves (ICS) with single / multiple pots</p> <p>2. The design /rated efficiency of project devices shall be more than 20%.</p> <p>Additionally, information pertaining to section H.4 of the PoA-DD above, shall be made available for each ICS model included in the CPA.</p> | | <p>generic CPA-DD shall apply and should comply with the small-scale methodology AMS-II.G, version 11.1. Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p> |
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⁶ Except in the case of charcoal stoves, where the ratio should be less than 0.08

⁷ http://www.mepred.eu/_docs/Improved_stoves-V2.5.1.26.pdf, section 1.2

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| | 5. | Start date | <p>For each CPA</p> <p>The start date will be the date of Purchase order / Sales record for the first cook stove included in the CPA</p> <p>The start date of CPA shall not be prior to commencement of validation of PoA. date of webhosting of PoA-DD for validation (19/11/2011).</p> | 1. Purchase order / Sales record of first ICS in the CPA | <p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (e) of the PS for PoAs, v2. The start date of a CPA shall be on or after the PoA start date.</p> <p>Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. Please also refer to the</p> |
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| | | | | | closure of CAR-02. |
| | 6. | Applicability of applied methodology | <p>Each CPA shall confirm the following:</p> <ol style="list-style-type: none"> 1. If the CPA qualifies as solely comprised of micro-scale units (as per para 51), total number of project devices proposed for inclusion under CPA <p>If the CPA does not qualify with para 51, then aggregate annual thermal energy savings shall be limited to 180GWh_{th} for the CPA.</p> | <ol style="list-style-type: none"> 1. Proposed Implementation plan if CPA complies with para 51 of methodology 2. Aggregate thermal energy savings from the CPA ($\leq 180\text{GWh}_{\text{th}}$) | <p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements of §124 (g), 124 (m), 124 (n) of the PS for PoAs, v2. The CME has selected to apply either the micro-scale threshold at the unit level rather than at the aggregate level of the CPA or the normal small scale CPA.</p> <p>Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently</p> |

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| | | | | | objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. |
| | 7. | Additionality | Each CPA shall demonstrate compliance with either one of the following: 1. Para 12 of Tool 19 (version 9.0); or 2. Para 10/Figure 1 of Tool 21 (Version 13.1); or 3. Para 11 of Tool 21 (Version 13.1); | Evidence as per Tool 19 or 21 | <p>CME has adopted microscale threshold at unit level in the relevant sections of the revised PoA-DD in accordance with the Tool 19. In case the CPA does not qualify for micro scale (paragraph 12 a or 12 b of Tool 19), provisions under Tool 21, version 13.1 will be followed to demonstrate additionality..</p> <p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §124 (g) of the PS for PoAs, v2. All CPAs shall be additional to be included in the PoA provided they meet this eligibility criterion of the PoA. This is adequately prescribed in the PoA-DD. Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance</p> |

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| | | | | | with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. |
| | 8. | Stakeholder consultation and environmental impact assessment | Not applicable as being demonstrated at PoA level | Not applicable as being demonstrated at PoA level | As per the PoA DD /02/, the local Stakeholder Consultation (LSC) and Environmental Impact Assessment (EIA) are on PoA level. Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §124 (i) of the PS for PoAs, v2. Validation team based on review of PoA-DD /02/ confirms that the eligibility |

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| | | | | | <p>criterion is defined in accordance with the project standard.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p> |
| | 9. | No ODA diversion | Each CPA will demonstrate that no Official Development Assistance (ODA) is being used. | This may be evidenced through Undertaking by CPA implementer to the coordinating /managing entity | <p>Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §35 and §124 (j) in the PS for PoAs, v02. Validation team based on review of the PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility</p> |

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| | | | | | <p>criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p> |
| | 10. | Target group | The target group of each CPA will be households/SMEs currently using biomass based inefficient / traditional cook stoves | Described in CPA-DD | <p>Validation team confirms that this eligibility criterion shall ensure that all CPAs shall specify the target group for all eligible CPAs in order to confirm to the applied methodology, as well as the PoA stated policy, operational and management framework inline with the requirements of §124 (k) of the PS for PoAs, v2. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in</p> |

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| | | | | | <p>accordance with the project standard.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p> |
| | 11. | Sampling | <p>Each CPA will conduct sampling and surveying for baseline⁸ and project scenarios as per following:</p> <ol style="list-style-type: none"> 1. Sampling & survey methods described in the approved methodology AMS II.G, version 11.1, <i>Energy efficiency measures in thermal applications of non-renewable biomass</i> 2. “Standard for sampling and surveys for CDM | Described in CPA-DD section I.7.2 | <p>Validation team confirms that this eligibility criterion shall ensure that all CPAs in the PoA shall apply to the sampling plan of the PoA. This eligibility criterion is in accordance with AMS-II.G, version 11.1 and “Standard: Sampling and surveys for CDM project activities and programme of activities”, v08.</p> |

⁸A CPA may conduct Baseline surveys/studies to establish fuel consumption patterns, prevalent baseline technologies. Where appropriate, sampling across multiple CPAs is allowed.

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| | | | project activities and programme of activities”, and “Guidelines for sampling and surveys for CDM project activities and programme of activities”. | | Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. |
| | 12. | Small-scale threshold | CPA will meet the following small-scale threshold criteria: 1. Annual thermal energy savings not exceeding 180 gigawatt hours (GWh _{th}) equivalent per year every year throughout the crediting period. 2. However, if CPAs are solely comprised of micro-scale units, then the above is not required | Covered in #6,7 above | Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements of §124 (g), 124 (m), 124 (n) of the PS for PoAs, v2. The CME has selected to apply either the micro-scale threshold at the |

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| | | | | | <p>unit level rather than at the aggregate level of the CPA or the normal small scale CPA.</p> <p>Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard.</p> <p>Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.</p> |
| | 13. | Debundling | As per Tool 20: para 17, 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 | Confirmation by calculating thermal output of one unit of independent subsystem / measure. | Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements of §124 (g), 124 (m), 124 (n) of |

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| | | | <p>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.</p> | <p>the PS for PoAs, v2. The CME has selected to apply the micro-scale threshold at the unit level rather than at the aggregate level of the CPA. This means that any number of ICS can be implemented under one CPA. The CME has selected to demonstrate that it consists solely of units that qualify as “microscale CDM units” in order to exempt it from performing debundling check.</p> <p>For the cases when the CPA does not qualify for micro scale threshold at unit level and it is a small scale CPA, in that case CME will demonstrate the debundling criteria as per tool 20.</p> <p>Validation team based on review of PoA-DD /02/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide</p> |
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| | | | | | sufficient information for the corresponding CPAs. The description in the PoA-DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA. |
| | <p>The CME has outlined clear and unambiguous eligibility criteria for the inclusion of a CPA under the PoA in section K of the PoA-DD /02/. Validation team confirm that the eligibility criteria for inclusion of corresponding CPAs in the PoA are updated by the CME in accordance with the applicable validation requirements related to the renewal of programme of activities period in the VVS for PoAs, version 02 /B01-1/ and the applied methodology AMS-II.G, versin 11.1 /B03/.</p> <p>Validation team confirm that the eligibility criteria are sufficiently objective and comprehensive to permit the assessment of the inclusion of CPAs in the PoA. Furthermore, the validation team confirms that eligibility criteria for the inclusion of CPAs in the PoA have covered as per the requirements of §124 of PS for PoAs, version 02 /B01-1/.</p> | | | | |

SECTION E. Internal quality control

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The final validation report passed a technical review and quality review before being submitted to the project participant and UNFCCC Executive Board. A technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification performed the technical review.

SECTION F. Validation opinion

>>

The CME, BioLite India Private Limited, has appointed the DOE, Carbon Check (India) Private Ltd., (CC IPL) to perform the validation of the Renewal of the PoA period for the PoA "BioLite Improved Cook stoves Programme" /B02/.

The validation was performed in accordance with the UNFCCC criteria for the Clean Development Mechanism, latest version of Validation and Verification Standard and related Standards/Guidance

and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The programme of activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the generic CPA-DD. In the opinion of the validation team, the programme of activity meets all relevant UNFCCC, CDM criteria and all relevant host country criteria.

The review of the PoA-DD /02/ and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline and/or its update through an assessment. The PoA-DD /02/ correctly applies the small scale methodology AMS-II.G, version 11.1 /B03/. The monitoring arrangements described in the monitoring plan are feasible within the PoA-DD, and it is validation team's opinion that the CME/CPA Implementer are able to implement the monitoring plan.

During the course of validation nine (09) CLs and two (02) CARs were identified on initially submitted revised PoA-DD /01/. All the CARs and CLs have been resolved by the CME.

In summary, it is validation team's opinion that the CDM programme of activity "BioLite Improved Cook stoves Programme" (UNFCCC Reference number 7997) meets all relevant UNFCCC requirements for the renewal of the PoA period. Hence CCIPL requests the renewal of CDM programme of activities period.

Appendix 1. Abbreviations

| Abbreviations | Full Texts |
|------------------|---|
| BE | Baseline Emission |
| CAR | Corrective Action Request |
| CC IPL | 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 |
| ER | Emission Reduction |
| FAR | Forward Action Request |
| GHG | Greenhouse Gas |
| GWh | Giga Watt Hours |
| I | Interview |
| kW | Kilo Watt |
| kWh | Kilo Watt Hours |
| MoV | Means of Verification |
| MoC | Modalities of Communications |
| MW | Mega Watt |
| MWh | Mega Watt Hours |
| 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 |
| PS | Project Standard |
| t | Tonne |
| UNFCCC | United Nations Framework Convention on Climate Change |
| VT | Validation team |
| VVS | Validation and Verification Standard |

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Ltd.

Sanjay Agarwalla

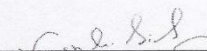
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

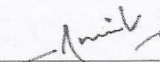
For following functions:

| | | | | | |
|-----------|-------------------------------------|------------------|-------------------------------------|---------------------------|-------------------------------------|
| Validator | <input checked="" type="checkbox"/> | Team Leader | <input checked="" type="checkbox"/> | Technical reviewer | <input checked="" type="checkbox"/> |
| Verifier | <input checked="" type="checkbox"/> | Technical Expert | <input checked="" type="checkbox"/> | Local Expert ¹ | <input checked="" type="checkbox"/> |

In the following Technical Areas:

| | | | | | | | | | |
|--------|-------------------------------------|--------|-------------------------------------|--------|-------------------------------------|---------|-------------------------------------|---------|--------------------------|
| TA 1.1 | <input checked="" type="checkbox"/> | TA 3.1 | <input checked="" type="checkbox"/> | TA 5.2 | <input checked="" type="checkbox"/> | TA 9.2 | <input checked="" type="checkbox"/> | TA 13.2 | <input type="checkbox"/> |
| TA 1.2 | <input checked="" type="checkbox"/> | TA 4.1 | <input checked="" type="checkbox"/> | TA 8.1 | <input type="checkbox"/> | TA 10.1 | <input type="checkbox"/> | TA 14.1 | <input type="checkbox"/> |
| TA 2.1 | <input checked="" type="checkbox"/> | TA 5.1 | <input checked="" type="checkbox"/> | TA 9.1 | <input checked="" type="checkbox"/> | TA 13.1 | <input checked="" type="checkbox"/> | | |


Mr. Vikash Kumar Singh
 Compliance Officer


Mr. Amit Anand
 CEO

Date of Approval
 24/12/2019

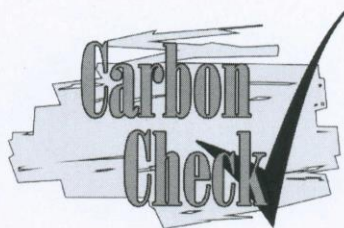
Valid Till
 23/12/2020

Revision History of the Document

| | |
|------------|--|
| 26/12/2014 | Initial Adoption |
| 24/12/2015 | Annual Revision |
| 20/01/2016 | Interim Revision for office address change |
| 23/12/2017 | Annual Revision |
| 24/12/2018 | Annual Revision |
| 24/12/2019 | Annual Revision |

¹ India

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
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 e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Amit Anand

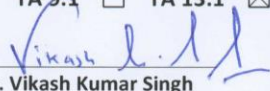
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

| | | | | | |
|-----------|-------------------------------------|------------------|-------------------------------------|---------------------------|-------------------------------------|
| Validator | <input checked="" type="checkbox"/> | Team Leader | <input checked="" type="checkbox"/> | Technical reviewer | <input checked="" type="checkbox"/> |
| Verifier | <input checked="" type="checkbox"/> | Technical Expert | <input checked="" type="checkbox"/> | Local Expert ¹ | <input checked="" type="checkbox"/> |

In the following Technical Areas:

| | | | | | | | | | |
|--------|-------------------------------------|--------|-------------------------------------|--------|-------------------------------------|---------|-------------------------------------|---------|-------------------------------------|
| TA 1.1 | <input checked="" type="checkbox"/> | TA 3.1 | <input checked="" type="checkbox"/> | TA 5.2 | <input type="checkbox"/> | TA 9.2 | <input type="checkbox"/> | TA 13.2 | <input type="checkbox"/> |
| TA 1.2 | <input checked="" type="checkbox"/> | TA 4.1 | <input type="checkbox"/> | TA 8.1 | <input checked="" type="checkbox"/> | TA 10.1 | <input type="checkbox"/> | TA 14.1 | <input checked="" type="checkbox"/> |
| TA 2.1 | <input type="checkbox"/> | TA 5.1 | <input type="checkbox"/> | TA 9.1 | <input type="checkbox"/> | TA 13.1 | <input checked="" type="checkbox"/> | | |


Mr. Vikash Kumar Singh
Compliance Officer

Date of Approval
24/12/2019

Valid Till
23/12/2020

Revision History of the Document

| | |
|------------|--|
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| 23/12/2016 | Annual Revision |
| 24/12/2017 | Annual Revision |
| 24/12/2018 | Annual Revision |
| 24/12/2019 | Annual Revision |

¹ India, South Africa

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Tel: +91 120 4373114 | 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/ | CME | Initial revised PoA-DD | Version 21; Dated: 15/09/2020 | CME |
| /02/ | CME | Final revised PoA-DD | Version 22.1 ; Dated: 20/10/2020 | CME |
| /B01/ | UNFCCC | 1. CDM VVS for PoAs (Version 02.0). 2. CDM PS for PoAs (Version 02.0) 3. CDM PCP for PoAs (Version 02.0) | http://cdm.unfccc.int/ | UNFCCC |
| /B02/ | UNFCCC | Revised and approved PoA-DD, version 20, 16/11/2017 and the corresponding validation report for the PoA “BioLite Improved Cook stoves Programme”, having UNFCCC Ref. No. 7997 | http://cdm.unfccc.int/ | UNFCCC |
| /B03/ | UNFCCC | AMS-II.G. Energy efficiency measures in thermal applications of non-renewable biomass (version 11.1) | http://cdm.unfccc.int/ | UNFCCC |
| /B04/ | UNFCCC | Programme design document form for CDM programmes of activities (CDM-PoA-DD-FORM) (Version 09) | http://cdm.unfccc.int/ | UNFCCC |
| /B05/ | UNFCCC | Glossary of CDM Terms, version 10.0 | http://cdm.unfccc.int/ | UNFCCC |
| /B06/ | UNFCCC | Standard: Sampling and surveys for CDM project activities and programmes of activities (version 08.0) | http://cdm.unfccc.int/ | UNFCCC |
| /B07/ | UNFCCC | Guideline: Sampling and surveys for CDM project activities and programmes of activities (version 04.0) | http://cdm.unfccc.int/ | UNFCCC |
| /B08/ | UNFCCC | 1. Methodological Tool 19 “Demonstration of additionality of microscale project activities” (version 09.0) 2. Methodological Tool 21 “Demonstration of additionality of smallscale project activities” (version 13.1) | http://cdm.unfccc.int/ | UNFCCC |
| /B09/ | UNFCCC | Methodological Tool 11: “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 | http://cdm.unfccc.int/ | UNFCCC |
| /B10/ | UNFCCC | Project page on UNFCCC website for the PoA 7997 | http://cdm.unfccc.int/ | UNFCCC |
| /B11/ | UNFCCC | Methodological Tool 30: “Calculation of the fraction of non-renewable biomass”, version 02.0 | http://cdm.unfccc.int/ | UNFCCC |
| /B12/ | UNFCCC | MoC statement uploaded on the project page of the PoA 7997 on UNFCCC web site | http://cdm.unfccc.int/ | UNFCCC |
| /B13/ | UNFCCC | Standardized baseline: ASB0002-2017: “Fuel switch, technology switch and/or methane destruction in the charcoal sector of Uganda” version 01 Clarification on application of ASB0002 _{f_{NRB}} value for AMS-II.G: https://cdm.unfccc.int/methodologies/stand_base/2015/sb154.html | http://cdm.unfccc.int/ | UNFCCC |
| /B14/ | UNFCCC | UNFCCC website: https://cdm.unfccc.int/ | http://cdm.unfccc.int/ | UNFCCC |

Clarification requests, corrective action requests and forward action requests

Table 1. CLs from this validation

| CL ID | 01 | Section no. | D.1.1 | Date: 05/10/2020 |
|---|----|-------------|-------|------------------|
| Description of CL | | | | |
| Clarifications are requested for the following changes in the PoA-DD with respect to the earlier revised and approved version of the PoA-DD, version 20 dated 16/11/2017: | | | | |
| <ol style="list-style-type: none"> It is noted that in section A.1 of the revised PoA-DD, CME has removed the statement. <i>"The current practice of utilization of biomass in traditional cook stoves with efficiency of 10 % leads to inefficient combustion resulting in emissions such CO, particulate matter etc) into the atmosphere. The proposed programme activity involves the replacement of inefficient traditional cook stoves with improved stoves which have the efficiency of greater than 25 %"</i>. In section A.3 the following paragraph has been removed: "Criteria for selection of efficient cook stove: <i>For CPAs in India, the technologies to be deployed within this programme will follow the criteria as described by Bureau of Indian Standard (IS 13152(Part I):1991 which states</i> <ul style="list-style-type: none"> Thermal efficiency – greater than 25% CO/CO₂ ratio – 0.04 Total Suspended Particulate matter (TSP) – not more than 2 mg/m³ Surface Temperature– not exceeding 60°C Temperature of synthetic rubber/plastic components if used shall not exceed 60°C <i>CPAs in other countries will have technological criteria consistent with the methodology being applied (ie with thermal efficiency at least 20%."</i> <p>In this respect also the eligibility criterion number 3 under section K of the PoA-DD has been revised.</p> <ol style="list-style-type: none"> In section H.3, word "domestic" has been deleted and "SME" is introduced. In the revised submitted PoA-DD in section I.7.2, CME has applied only the stratified random sampling approach whereas in the last revised and approved PoA-DD, simple random sampling was also one of the options. Clarification is requested. <p>PP needs to clarify.</p> | | | | |
| CME response | | | | Date: 12/10/2020 |
| Please note the following: | | | | |
| <ol style="list-style-type: none"> As per AMS II.G. version 11.1 the thermal efficiency (0.1 or 0.2) of baseline stove being replaced by project ICS, is a monitoring parameter which has to be determined at the time of distribution of project ICS. This is different from the P1 PoA-DD where the baseline thermal efficiency was fixed ex-ante at 10%. Thus, in line with the methodological requirements, this has been removed. As per PoA-DD form filling guidelines the criteria for selection of ICS is not required to be listed in section A.3 but should be listed in section K instead. Thus, the same has been deleted from section A.3. Further, the methodology only mandates distribution of ICS with minimum thermal efficiency rating of 20%. Thus, section K has been revised accordingly to be in line with AMS II.G. version 11.1. Again, this is in-line with AMS II.G. version 11.1 which refers to term household/SMEs as target users rather than domestic. Simple random sampling has been incorporated back in the revised PoA-DD, although as per the methodology requirements, stratified random sampling approach is more suited for the project to account of device type i and batch j | | | | |
| Documentation provided by CME | | | | |
| Revised PoA-DD | | | | |
| DOE assessment | | | | Date: 16/10/2020 |

The validation team confirms that the changes made in the PoA-DD are either as per requirements of the latest applied version of the methodology (AMS-II.G., ver 11.1) or the PoA-DD completing guidelines. Hence these changes are deemed acceptable and the CL is closed.

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| CL | 02 | Section no. | D.1.1 | Date: 05/10/2020 |
| Description of CL | | | | |
| In section H.3 of the PoA-DD, clarification is requested for the statement “CPA capacity: The CPA capacity is limited to <XXXX project devices (in case the project devices qualify as microscale units) or otherwise annual thermal energy savings of 180GWh _{th} ”. | | | | |
| CME response | | | | Date: 12/10/2020 |
| The PoA is a small scale PoA. In line with para 51 of the methodology AMS II.G. version 11.1, if the Project is solely comprised of micro scale units, demonstration with methodology threshold at the project level is not required. However, in case the CPA is not solely comprised of microscale units, then it must adhere to small scale type II category threshold i.e. annual thermal energy savings limited to 180GWh _{th} . Thus, in light of the aforesaid, the generic CPA description provides options to specify the CPA capacity limit, either in terms of number of devices proposed to be installed under the CPA or the annual thermal energy savings of 180GWh _{th} . | | | | |
| Documentation provided by CME | | | | |
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| DOE assessment | | | | Date: 16/10/2020 |
| CME has clarified that the CPAs in the PoA may either qualify as micro scale units or remain within the threshold limit of small-scale limit of 180 GWh _{th} energy savings per year. This is acceptable to the validation team and the CL is closed. | | | | |

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|--|----|--------------------|-------|-------------------------|
| CL | 03 | Section no. | D.2.1 | Date: 05/10/2020 |
| Description of CL | | | | |
| CME is requested to clarify the compliance of para 124 (d) including its footnotes of PS for PoAs, version 02 under section H.4 (Technologies/measures) and also eligibility criterion number 4 under section K of the PoA-DD. | | | | |
| CME response | | | | Date: 12/10/2020 |
| Section H.4 includes technology/measure already under a) and types and level of service under point b) in line with para 124(d) of the PS for PoA version 2.0. Changes to eligibility criterion 4 is not deemed required. | | | | |
| Documentation provided by CME | | | | |
| Revised PoA-DD | | | | |
| DOE assessment | | | | Date: 16/10/2020 |
| CME has revised section H.4 and eligibility criterion number 4 in the PoA-DD complying the requirements of para 124 (d) of the PS for PoAs, ver 02. Hence the CL is closed. | | | | |

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| CL | 04 | Section no. | D.2.1 | Date: 05/10/2020 |
| Description of CL | | | | |
| In section I.2 of the PoA-DD, for the meth applicability criterion paragraph number 7, CME has stated “Refer the monitoring plan section I.71. below. The same has been developed as a monitoring parameter, <i>Cons_ (processed fuel)</i> , applicable in case of processed fuels (briquettes, pellets, woodchips)”. Clarification is requested on how the calculation of leakage will be applied from the monitored value of processed fuel usage. | | | | |
| CME response | | | | Date: 12/10/2020 |
| The calculation of leakage in case of consumption of processed fuel shall be determined in line with the Tool 16 - Project and leakage emissions from biomass, as applicable. This is now specified under the Additional comments, monitoring parameter table for <i>Cons_ processed fuel</i> | | | | |
| Documentation provided by CME | | | | |
| Revised PoA-DD | | | | |
| DOE assessment | | | | Date: 16/10/2020 |
| CME has clarified that in case of consumption of any processed fuel, leakage will be accounted in line with Tool 16. The CL is closed. | | | | |

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| CL | 05 | Section no. | D.2.1 | Date: 05/10/2020 |
| Description of CL | | | | |
| CME needs to clarify the approach adopted in the PoA-DD for compliance of paragraph 50 of the applied meth which says “Monitoring approaches for <i>By, savings, i, j</i> and values for parameters <i>fNRB</i> (when Option | | | | |

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| (a) in paragraph 48(c) is chosen) and the quantity of woody biomass $B_{old,i,j}$ may be determined either at the CPA level before the inclusion of the CPA or at the PoA level before the registration of the PoA-DD". | |
| CME response | Date: 12/10/2020 |
| The monitoring approach for $B_{y, savings, i, j}$ has been fixed at PoA level based on equation 7 of the methodology. The value of f_{NRB} has been fixed ex-ante at PoA level for Uganda and stated in section I.6.2. For Kenya and India, the value is not available as of now and hence will be determined at the first CPA being included in these two countries. Once established in the first CPA for Kenya / India, subsequent CPAs may use the same values instead of updating it at each CPA level. The value of $B_{old,i,j}$ will be determined at CPA level before the CPA inclusion. The value once determined for first CPA in a given country can be used in subsequent CPAs of the same country. | |
| Documentation provided by CME | |
| Revised PoA-DD | |
| DOE assessment | Date: 19/10/2020 |
| CME has clarified that $B_{old,i,j}$ will be determined at CPA level. f_{NRB} value for Uganda has been adopted from ASB0002-2017: Fuel switch, technology switch and/or methane destruction in the charcoal sector of Uganda, version 1.0 which is deemed acceptable to the validation team. UNFCCC has clarified the applicability of f_{NRB} value from ASB0002 for AMS-II.G methodology (https://cdm.unfccc.int/methodologies/standard_base/2015/sb154.html). This value is fixed for the second PoA period. For India and Kenya, the f_{NRB} values will be calculated in line with the methodological tool 30 at the time of CPA inclusion which is deemed acceptable. The CL is closed. | |

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| CL | 06 | Section no. | D.2.1 | Date: 05/10/2020 |
| Description of CL | | | | |
| In section I.7.1 of the PoA-DD, for the monitoring parameter “ μ_y ”, CME has stated “If no information is available on relative usage of baseline stove and ICS for a sample, a default of 0.5 shall be applied for that sample”. CME needs to clarify how does this complies with the meth requirement. | | | | |
| CMEresponse | | | | Date: 12/10/2020 |
| The parameter table has been revised to remove the aforesaid. | | | | |
| Documentation provided by CME | | | | |
| Revised PoA-DD | | | | |
| DOE assessment | | | | Date: 16/10/2020 |
| PoA-DD has been revised appropriately for the said parameter in line with the applied meth. The CL is closed. | | | | |

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|---|----|-------------|-------|------------------|
| CL | 07 | Section no. | D.2.1 | Date: 05/10/2020 |
| Description of CL | | | | |
| In section I.7.3 of the PoA-DD, CME has stated “ <i>The CME makes every effort to retrieve this information (paper form or electronically (eg. SMS)) but cannot guarantee the collection of information for each ICS due to challenges such as high rates of illiteracy and logistical challenges.</i> ” CME is requested to clarify how does this comply with para 8 of the applied meth AMS-II.G, version 11.1 and para 124 (b) of PS for PoAs, version 02. | | | | |
| CMEResponse | | | | Date: 12/10/2020 |
| Section I.7.3 of the PoA-DD has been revised to remove the aforesaid. | | | | |
| Documentation provided by CME | | | | |
| Revised PoA-DD | | | | |
| DOE assessment | | | | Date: 16/10/2020 |
| CME has removed the stated para in the revised PoA-DD. CL is closed. | | | | |

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|---|-------------------------|--------------------|-------|-------------------------|
| CL | 08 | Section no. | D.2.5 | Date: 05/10/2020 |
| Description of CL | | | | |
| Under eligibility criterion number 4 in section K of the PoA-DD, CME has stated "For each CPA The start date will be earliest date of 1. Purchase order / Sales record for the first cook stove included in the CPA 2. commencement of validation of PoA. date of webhosting of PoA-DD for validation (19/11/2011)". Clarification is requested. | | | | |
| CME response | Date: 12/10/2020 | | | |

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| The eligibility criterion # 4 has been rectified. The CPA start date shall be date of PO/sales record of first ICS in the CPA. The CPA start date must not be earlier than the date of start of PoA (Date of webhosting of PoA-DD) | |
| Documentation provided by CME | |
| Revised PoA-DD | |
| DOE assessment | Date: 16/10/2020 |
| Eligibility criterion number 4 has been revised appropriately. The CL is closed. | |

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|---|----|--------------------|-------|-------------------------|
| CL | 09 | Section no. | D.2.1 | Date: 16/10/2020 |
| Description of CL | | | | |
| CME needs to clarify the included monitoring parameter “Life Span” in light of the used methodological choices according to para 37 of AMS-II.G., ver 11.1 for determination of “ $\eta_{new,i,j}$ ”. | | | | |
| CME response | | | | Date: 16/10/2020 |
| The PoA-DD has been revised to remove the parameter “Life Span” from section I.7.1. The CME has selected option c) and d) of para 37 to determine the efficiency of project devices ex-post whereas “Life Span” is deemed applicable only in case option a) of para 37 is exercised. This has now been stated in section I.6.1 of the PoA-DD. | | | | |
| Documentation provided by CME | | | | |
| Revised PoA-DD | | | | |
| DOE assessment | | | | Date: 19/10/2020 |
| The removal of the parameter “Life Span” is deemed acceptable as CME has not opted for option (a) of para 37 of the applied meth. The CL is closed. | | | | |

Table 2. CARs from this validation

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|--|----|--------------------|-------|-------------------------|
| CAR ID | 01 | Section no. | D.1.1 | Date: 05/10/2020 |
| Description of CAR | | | | |
| CME has not followed the PoA-DD completing guidelines for the followings: | | | | |
| <ol style="list-style-type: none"> 1. CME needs to confirm that the information transferred to the revised PoA-DD is materially the same as in the registered PoA-DD. 2. For section A.5 of the PoA-DD, PoA DD completing guidelines “Indicate the host Parties of the PoA by adding “(host Party)” after the Parties’ name” which has not been followed. Also names of the PPs for Uganda and Kenya are not stated. 3. In section K of the PoA-DD, CME needs to confirm “Eligibility criterion – Category” for each of the eligibility criteria along with compliance of the requirements of paragraph 124 of CDM PS for PoAs, version 02. 4. Under Appendix 7 of the PoA-DD, CME has not provided the details of the PRC history of the PoA. | | | | |
| CME response | | | | Date: 12/10/2020 |
| <ol style="list-style-type: none"> 1. CME confirms that the information in the revised PoA-DD is materially the same as in the registered PoA-DD except the changes that are mandated by the updating the methodology version or the updating the PoA-DD template. 2. Host party has been added. The names of PP for Uganda and Kenya have been added. 3. The category has been confirmed in line with para 124 of CDM PS for PoA version 2.0 4. The PRC history is not applicable as this is the first PoA-DD for P2 | | | | |
| Documentation provided by CME | | | | |
| Revised PoA-DD | | | | |
| DOE assessment | | | | Date: 16/10/2020 |
| CME has submitted revised PoA-DD complying the PoA-DD completing guidelines and PS for PoAs, version 02. The CAR is closed. | | | | |

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|---|----|--------------------|-------|-------------------------|
| CAR ID | 02 | Section no. | D.2.2 | Date: 05/10/2020 |
| Description of CAR | | | | |
| CME needs to comply paragraph 291 of the PS for PoAs, version 02 which states: “If data and parameters used for determining the original baseline, that were determined ex ante and not monitored during the PoA period, are no longer valid, the coordinating/managing entity shall update such | | | | |

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| <i>data and parameters in accordance with the "Methodological tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period".</i> | |
| CME response | Date: 12/10/2020 |
| The same has been demonstrated in the revised PoA-DD. | |
| Documentation provided by CME | |
| Revised PoA-DD | |
| DOE assessment | Date: 16/10/2020 |
| In the revised PoA-DD, CME has applied the methodological Tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period in compliance with para 291 of PS for PoAs, version 02. This is deemed acceptable and hence the CAR is closed. | |

Table 3. FARs from this validation

| FAR ID | xx | Section no. | Date:DD/MM/YYYY |
|-------------------------------|----|-------------|-----------------|
| Description of FAR | | | |
| - | | | |
| CME's response | | | Date:DD/MM/YYYY |
| - | | | |
| Documentation provided by CME | | | |
| - | | | |
| DOE assessment | | | Date:DD/MM/YYYY |
| - | | | |

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Document information

| Version | Date | Description |
|---|------------------|--|
| 02.0 | 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) and version 02.0 of the "CDM project cycle procedure for programmes of activities" (CDM-EB93-A09-PROC); Make editorial improvements. |
| 01.0 | 29 December 2017 | Initial publication. |
| Decision Class: Regulatory Document Type: Form Business Function: Renewal of crediting period Keywords: crediting period, programme of activities, validation report | | |