



## Validation report form for post-registration changes for component project activities

(Version 01.0)

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

### BASIC INFORMATION

<b>Title and UNFCCC reference number of the component project activity (CPA)</b>	Promotion of the Improved Cooking Stove (ICS) – Nepal – CPA 1 CPA 9902-0001
<b>Version number of the validation report on CPA PRCs</b>	02
<b>Completion date of the validation report on CPA PRCs</b>	21/05/2018
<b>Version number of PoA-DD and CPA-DD applicable to this validation report</b>	PoA-DD, Version 11 CPA-DD, Version 11
<b>Title and UNFCCC ref. no. of the registered PoA into which the CPA is included</b>	Title: "Promotion of the Improved Cooking Stove (ICS) - Nepal" UNFCCC Reference: PoA 9902
<b>Type(s) of CPA PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation activities
<b>Coordinating/managing entity</b>	Alternative Energy Promotion Centre (AEPC)
<b>Host Parties</b>	Nepal
<b>Applied methodologies and standardized baselines</b>	Methodology: AMS.II.G version 06 (Energy efficiency measures in thermal applications of non-renewable biomass)
<b>Mandatory sectoral scopes linked to the applied methodologies</b>	Sectoral Scope 3: Energy Demand
<b>Conditional sectoral scopes linked to the applied methodologies, if applicable</b>	Not Applicable
<b>Name and UNFCCC reference number of the DOE</b>	Name: KBS Certification Services Pvt. Ltd. UNFCCC reference number: E-0051
<b>Name, position and signature of the approver</b>	

of the validation report on CPA PRCs



Kaushal Goyal  
Managing Director  
KBS Certification Services Pvt. Ltd.

## SECTION A. Executive summary

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The Promotion of the Improved Cooking Stove (ICS) – Nepal, a CDM Programme of Activities (PoA) is an initiative implemented by Alternative Energy Promotion Center (AEPC) which is a nodal agency for promoting Renewable Energy Technologies (RETs) in Federal Democratic Republic of Nepal (Federal Democratic Republic of Nepal is hereby referred to as Nepal later in the document). The use of fuel efficient improved cooking stoves would lead to less consumption of fuel-wood which would thus reduce the emissions from the stove. The programme will also contribute towards reducing deforestation and also improvement in the quality of life of the targeted group through reduction of drudgery, time and money spent on fuel wood collection and throughout improvement of the indoor environment. The CPA-1 (CPA 9902-0001) under the programme will be implemented and maintained by AEPC.

KBS has been contracted by “Alternative Energy Promotion Centre (AEPC)” to perform validation of the permanent changes in registered CPA-1 (CPA 9902-0001) of registered CDM PoA “Promotion of the Improved Cooking Stove (ICS) – Nepal”, UNFCCC PoA Reference No. 9902 /01/, according to the procedure detailed in CDM VVS for programme of activities (version 01.0) /06/, CDM PS for programme of activities (version 01.0) /07/ and CDM PCP for programme of activities (version 01.0) /08/. The purpose of validation is to have an independent third party assessment of the permanent changes in registered CPA 9902-0001. In particular, the level of accuracy and/or completeness in the proposed revision of the CPA 9902-0001, and the conformity with approved monitoring methodology applicable to the project activity.

The following permanent changes are proposed in the registered CPA-DD (CPA 9902-0001) in line with the revised PoA-DD, version 11 (UNFCCC PoA Reference No. 9902):

- The revised CPA-DD /01/ reflecting the post-registration changes is prepared using the latest available version of CPA-DD form (version 08.1) on CDM website. Some editing and restructuring of information has been done by CME, due to change of CPA-DD template from old version to new version.
- The description on accounting of continuing use of traditional stoves has been revised in the table for the parameter “ $N_{y,i,a}$ ” (*Number of project devices of type i and age a that are operating in year y*) available under Section D.7.1 of the registered CPA-DD. As per the revised description, if the households are found continuing the use of traditional stoves, the proportion of usage of traditional stoves in those households shall be documented and the same will be accounted as downtimes of the ICS during calculation of emission reductions. The same is in line with the paragraph 37 (b) of the applied methodology which states “*If pre-project stoves continue to be used, monitoring shall ensure that the fuel-wood consumption of those stoves is excluded from Bold,*”. The revised description now falls under the Section B.5.1 of the revised CPA-DD due to change in the CPA-DD template /11/.
- The “different types of ICS” has been more clearly indicated as “Mud and Metallic ICS” under the table for the parameter “ $\eta_{new,i,a}$ ” (*Efficiency of the device of type i being deployed as part of the project activity, with the age a*) available under Section D.7.1 of the registered CPA-DD. Further the description on monitoring frequency of the parameter “ $\eta_{new,i,a}$ ” (*Efficiency of the device of type i being deployed as part of the project activity, with the age a*) and “ $\Delta\eta_{y,i,a}$ ” (*Factor to consider the efficiency loss of the project device type i due to its aging at the year y*) has been revised which now falls under the Section B.5.1 of the revised CPA-DD due to change in the CPA-DD template /11/.
- The CME has now clarified under Section B.5.2 of the revised CPA-DD that the Sampling shall be carried out at PoA level and hence the revised PoA-DD (version 11) shall be referred accordingly.

Furthermore, we confirm that:

- the proposed revision points have been described, and an assessment has been provided to substantiate the reasons for each of the proposed revision points of the registered CPA-DD, using objective evidence;
- the proposed revision of the CPA-DD ensures that the level of accuracy and completeness in the monitoring and verification process is not reduced as a result of the revisions;
- the proposed revision of the monitoring plan is in accordance with the approved monitoring methodology (AMS-II.G. Version 06) /05/ applicable to the CPA whilst ensuring the conservativeness of the emission reductions calculation;
- verification has commenced and prior approval of CDM EB is requested on proposed permanent changes in accordance with CDM VVS and CDM PS;

- the information included in the latest CPA-DD template is materially the same as the information in the registered CPA-DD. The changes that are the subject of the request for approval are in track change/highlighted.
- The revised CPA-DD is in line with the revised PoA-DD (version 11) and hence acceptable to the validation team.

## **SECTION B. Validation team, technical reviewer and approver**

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### **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 <sup>1</sup>	Interviews	Validation findings
1.	Team Leader , Technical Expert	IR	Kandari	Sanjay	Central office	✓		✓	✓
2.	Validator, Technical Expert	IR	Badaya	Rohit	Central office	✓		✓	✓

### **B.2. Technical reviewer and approver of the validation report on CPA PRCs**

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, Technical Expert	IR	Kanal	M P	Central office
2.	Manager (Technical & Certification)	IR	Sharma	Chetan Swaroop	Central office

## **SECTION C. Means of validation**

### **C.1. Document review**

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A desk review is undertaken, involving but not limited to,

- A review of the data and information presented to verify their completeness;

<sup>1</sup> The electronic (telephone or e-mail) interviews were undertaken and the appropriateness has been described under Section C.2 of the Validation Report

- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures;
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

KBS reviewed the CPA-DD, using a risk based approach and conducted follow-up interviews. The information in revised CPA-DD is reviewed against CDM VVS for project activities, version 01.0, CDM Project Standard for project activities, version 01.0, Kyoto Protocol requirements /12/, UNFCCC rules, applied methodology and associated interpretations.

List of all documents reviewed or referenced during the validation is included in the Appendix 3 below.

## C.2. On-site inspection

The changes proposed by the CME are only related to minor changes proposed, as stated below, to make the CPA-DD consistent with the onsite implementation and the sampling approach used for conducting the ex post monitoring survey. Further also to make the revised CPA-DD in line with the revised PoA-DD (Version 11). Moreover, the change proposed by the PP does not include any project design change. Thus, the validation team confirms that the avoidance of site visit does not affect the validation opinion on the changes proposed by PP.

## C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Pokhrel	Prem Kumar	Expert (Climate and Carbon Unit), AEPC	19/02/2018	Implementation and Operation of the CDM PoA and CPAs, Information flows for generating, aggregating and reporting the distribution database of ICS.	Sanjay Kandari Rohit Badaya
2.	Kanda	Sandeep	Consultant, ADB	19/02/2018	Proposed changes in sampling approach applied for the project activity.	Sanjay Kandari Rohit Badaya

## C.4. Clarification requests, corrective action requests and forward action requests raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with CPA-DD form		01	
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines			
Corrections		01	
Changes to the start date of the crediting period			
Inclusion of monitoring plan			
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	01	01	

Changes to the project design			
Changes specific to afforestation and reforestation project activities			
Others (please specify)			
<b>Total</b>	01	03	0

## SECTION D. Validation findings

### D.1. Compliance with CPA-DD form

<b>Means of validation</b>	<p>The CME has revised the CPA-DD in latest template version of CPA-DD available on CDM EB website. Some editing and restructuring of information has been done by CME, due to change of CPA-DD template from old version to new version.</p> <p>Validation team checked and confirmed that revised CPA-DD is in the latest available template version at CDM EB website.</p>
<b>Findings</b>	CAR 01 was raised during the validation process and which was successfully closed. Refer Appendix 4 for more details.
<b>Conclusion</b>	Validation team confirms that the revised CPA-DD is in compliance with the relevant forms and instructions therein. Validation team confirms that, the material included in the new form(s) is materially the same as the information in the registered CPA-DD.

### D.2. Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines

<b>Means of validation</b>	No temporary deviation envisaged during the PRC validation. Therefore, this section is not applicable.
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

### D.3. Corrections

<b>Means of validation</b>	<p>Some editing and restructuring of information has been done by CME, due to change of CPA-DD template from old version to new version. Further the revised CPA-DD is in line with the revised PoA-DD (version 11).</p> <p>The assessment team confirms that the corrected information is the reflection of actual project information and does not affect any provision of the applied methodology in any manner, as a result, is in accordance with the applied methodology.</p> <p>However, the DOE has raised two CARs as follows:</p> <ol style="list-style-type: none"> <li>1. Corrective Action Request (CAR 01) was raised on the expiry of the existing version of the "CDM-SSC-CPA-DD-FORM" template /11/ of the registered CPA-DD, hence the template version is no more valid. Hence PP was requested to submit the revised CPA-DD using the latest version of the CPA-DD form available on the UNFCCC website (para 227 of CDM project standard for programme of activities, version 01.0). CME, in response, submitted the revised CPA-DD using the latest version of the CPA-DD template form (version 08.1) available on the UNFCCC website. Further the information transferred to the revised version of the CPA-DD form is materially the same as that in the registered CPA-DD.</li> <li>2. Corrective Action Request (CAR 02) was raised as the non-uniform description was available on "stoves" as "types of stoves" at one place and "categories of stoves" at other places in the CPA-DD. Hence PP was requested to uniformly indicate the stoves as whether "type" or "category" throughout the CPA-DD. Further the PP was also requested to provide the relevant details as per the Appendix 6 of the registered CPA-DD (Summary of post registration changes). CME in response, uniformly</li> </ol>
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	<p>indicated the stoves as “types of stoves” throughout the CPA-DD and the relevant information provided under Appendix 5 of the revised CPA-DD which was found correct.</p> <p>DOE confirms that, there is no change in the eligibility criteria of CPAs for inclusion in the PoA, as can be seen from the revised CPA-DD and PoA-DD (version 11).</p>
<b>Findings</b>	CAR 01 and CAR 02 was raised during the validation process which was successfully closed. Refer Appendix 4 of this report for detailed findings.
<b>Conclusion</b>	<p>The validation team confirms</p> <ul style="list-style-type: none"> <li>✓ The corrected information is an accurate reflection of actual project information;</li> <li>✓ The corrected parameters are in accordance with the applied methodology and registered monitoring plan.</li> </ul> <p>Considering the proposed changes have been identified prior to the verification, these are submitted as part of request for prior approval to CDM EB.</p>

#### D.4. Changes to the start date of the crediting period

<b>Means of validation</b>	No change in start date envisaged during the PRC validation. Therefore, this section is not applicable.
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

**D.5. Inclusion of monitoring plan**

<b>Means of validation</b>	Monitoring plan is already included in registered CPA-DD during validation. Therefore, this section is not applicable
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

**D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools**

<b>Means of validation</b>	<p>The CME has revised the description on few monitoring parameters available in the registered CPA-DD to bring more clarity on the monitoring parameters as follows:</p> <ul style="list-style-type: none"> <li>➤ Parameter - "<math>N_{y,i,a}</math>" (<i>Number of project devices of type <math>i</math> and age <math>a</math> that are operating in year <math>y</math></i>): The description on accounting of continuing use of traditional stoves has been revised in the table for the parameter "<math>N_{y,i,a}</math>" available under Section D.7.1 of the registered CPA-DD. As per the revised description, if the households are found continuing the use of traditional stoves, the proportion of usage of traditional stoves in those households shall be documented and the same will be accounted as downtimes of the ICS during calculation of emission reductions. The same is in line with the paragraph 37 (b) of the applied methodology which states "<i>If pre-project stoves continue to be used, monitoring shall ensure that the fuel-wood consumption of those stoves is excluded from Bold,</i>". Hence considering the usage of traditional stoves as equivalent to the downtimes of the ICS during the calculation of emission reductions is acceptable to the validation team. The revised description now falls under the Section B.5.1 of the revised CPA-DD due to change in the CPA-DD template.</li> <li>➤ Parameter - "<math>\eta_{new,i,a}</math>" (<i>Efficiency of the device of type <math>i</math> being deployed as part of the project activity, with the age <math>a</math></i>): The "different types of ICS" has been more clearly indicated as "Mud and Metallic ICS" under the table for the parameter "<math>\eta_{new,i,a}</math>" available under Section D.7.1 of the registered CPA-DD. Further the description on monitoring frequency of the parameter "<math>\eta_{new,i,a}</math>" was ambiguous as the frequency of tests has been defined both as "annual" and "twice every year". The description on the monitoring frequency has been retained as annual which is in line with the requirements of the applied methodology AMS-II.G (version 06.0) and hence acceptable to the assessment team. The revised description now falls under the Section B.5.1 of the revised CPA-DD due to change in the CPA-DD template.</li> <li>➤ Parameter - "<math>\Delta\eta_{y,i,a}</math>" (<i>Factor to consider the efficiency loss of the project device type <math>i</math> due to its aging at the year <math>y</math></i>): The description on monitoring frequency of the parameter "<math>\Delta\eta_{y,i,a}</math>" was ambiguous as the frequency of tests has been defined both as "annual" and "twice every year". The description on the monitoring frequency has been retained as annual which is in line with the requirements of the applied methodology AMS-II.G (version 06.0) and hence acceptable to the assessment team. The revised description now falls under the Section B.5.1 of the revised CPA-DD due to change in the CPA-DD template.</li> </ul> <p>The CME has now clarified under Section B.5.2 of the CPA-DD that the Sampling shall be carried out at PoA level and hence the revised PoA-DD (version 11) shall be referred accordingly.</p> <p>The DOE, however raised the following CAR and CL during the course of validation as follows:</p> <ol style="list-style-type: none"> <li>1. Corrective Action Request (CAR 03) was raised as corrections were</li> </ol>
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	<p>required in the statement “<i>The sampling method is further explained in Appendix 4</i>” as available under Section D.7.2 of the CPA-DD. CME, in response corrected the statement, which was found Ok.</p> <ol style="list-style-type: none"> <li>2. Corrective Action Request (CAR 03) was raised as the PP was requested to incorporate the necessary information under the row “<i>Measurement methods and procedures</i>” under the “Table” for the parameter “<i>Factor to consider the efficiency loss of the project device type i due to its aging at the year y</i>” (<math>\Delta\eta_{y,i,a}</math>) under Section D.7.1 of the CPA-DD. CME, in response, provided the details on the measurement methods and procedures, which was found acceptable by the assessment team.</li> <li>3. Clarification Request (CL 01) was requested as more clarification was sought on the homogeneity in terms of different ages of ICS, when the sampling to be done at the PoA level. CME, in response, changed the sampling approach from the ‘Simple Random Sampling’ to ‘Stratified Random Sampling’ in the revised PoA-DD (version 11) and the sampling to be conducted at the PoA level. Hence there was no further requirement for demonstration of homogeneity of stoves, which was acceptable to the assessment team.</li> </ol>
<b>Findings</b>	CAR 03 and CL 01 has been raised in this context. Refer Appendix 4 of this report for detailed finding.
<b>Conclusion</b>	<p>The validation team confirms that the revised monitoring plan does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered CPA-DD.</p> <p>The same version of the methodology and “Standard for sampling and surveys for CDM project activities and programmes of activities” has been considered by the CME. The proposed changes do not lead to any deviation from the applied methodology/tools. The explanation provided by the CME is deemed sufficient and validation team confirms that revised sampling approach complies with the methodology and sampling guidelines and is suitable for the project activity population.</p> <p>The validation team confirms that -</p> <ul style="list-style-type: none"> <li>✓ The permanent changes are unlikely to lead to a reduction in the accuracy of the calculation of emission reductions.</li> <li>✓ The permanent changes proposed in the revised CPA-DD do not affect the application of the applied methodology in any manner.</li> </ul>

#### D.7. Changes to the project design

<b>Means of validation</b>	No changes in programme design of registered CPA envisaged during the PRC validation. Therefore, this section is not applicable.
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

#### D.8. Changes specific to afforestation and reforestation project activities

<b>Means of validation</b>	No changes specific to afforestation and reforestation activities envisaged during the PRC validation. Therefore, this section is not applicable.
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

### SECTION E. Internal quality control

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Following the completion of the assessment process and a recommendation by the validation team, the validation opinion prepared by Team Leader is independently reviewed by internal Technical Reviewer (TR). TR reviews if all the KBS procedures have been followed and all conclusions are justified in accordance with applicable standards, procedures, guidance and CDM decisions. The TR either is qualified for the technical area within the CDM sectoral scope applicable to CPA/PoA or is supported by qualified independent technical expert at this stage.

The Technical Reviewer will either accept or reject the recommendation made by the validation team. The findings can be raised at this stage and project participant must address them within agreed timeline.

The opinion recommended by Technical Reviewer will be signed by Manager Technical & Certification and finally authorized by the Managing Director on behalf of KBS as final validation opinion.

**SECTION F. Validation opinion**

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KBS Certification Services Pvt. Ltd. has performed the validation of the post registration changes of the CPA "Promotion of the Improved Cooking Stove (ICS) – Nepal – CPA 1" (CPA 9902-0001).

The report is based on the assessment of the revised CPA-DD undertaken through 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's and CDM decisions.

The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM PoAs/CPAs. The review of the revised CPA-DD, supporting documentation and subsequent follow-up actions (including interviews), have provided KBS with sufficient evidence to determine the fulfilment of stated criteria.

Considering the validation of changes has occurred prior to commencement of verification therefore these would require prior approval from CDM EB. The validation confirms that the implementation of the post registration changes is in line with the applied methodology and all other applicable tools and guidance.

The description in the revised CPA-DD, Version 11 dated 03/05/2018 meets all relevant UNFCCC requirements for the CDM PoA/CPA and correctly applies the selected baseline and monitoring methodology. The validation team further confirms that the revised CPA-DD, version 11 is in line with the revised PoA-DD, version 11.

This report is the combined assessment opinion for all the changes that are proposed in the CPA-DD and request is submitted for prior approval to CDM EB.

## Appendix 1. Abbreviations

Abbreviations	Full texts
AEPC	Alternative Energy Promotion Centre
AMS	Approved Methodology Small Scale
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CERs	Certified Emission Reductions
CL	Clarification Request
CME	Coordinating/Managing Entity
CO <sub>2</sub> e	Carbon dioxide equivalent
COP	Conference of Parties
CPA	Component Project Activity
DNA	Designated National Authority
DOE	Designated Operational Entity
EF	Emission Factor
ERs	Emission Reductions
FAR	Forward Action Request
GHGs	Greenhouse Gas(es)
ICS	Improved cooking stoves
ISO	International Organization of Standardization
IPCC	Intergovernmental Panel on Climate Change
KBS	KBS Certification Services Pvt. Ltd.
KP	Kyoto Protocol
PoA-DD	Programme of Activities- Design Document
PoA	Programme of Activities
PS	CDM Project Standard for project activities
PCP	CDM Project Cycle Procedure for project activities
PRC	Post-Registration Changes
RET	Renewable Energy Technologies
QA/QC	Quality Assurance/Quality Control
ToR	Terms of Reference
UNFCCC	United Nations Framework Convention on Climate Change
VVS	CDM Validation & Verification Standard for project activities

## Appendix 2. Competence of team members and technical reviewers

<b>Personnel Name:</b>		<b>Sanjay Kandari</b>	
<b>Qualified to work as:</b>			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
<b>Area(s) of Technical Expertise</b>			
<b>Sectoral Scope</b>	<b>Technical Area</b>		
Energy Industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar		
Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources		
Energy demand	TA 3.1. Energy Demand		
Waste Handling and Disposal	TA 13.1 Waste Handling and Disposal		

	TA 13.2 Manure
Approved by (Manager C & T)	Akhilesh Joshi
Approval date:	11/12/2015

<b>Personnel Name:</b>		<b>Rohit Badaya</b>	
<b>Qualified to work as:</b>			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
<b>Area(s) of Technical Expertise</b>			
<b>Sectoral Scope</b>	<b>Technical Area</b>		
Energy Industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar		
Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources		
Energy demand	TA 3.1. Energy Demand		
Waste Handling and Disposal	TA 13.1 Solid waste and wastewater TA 13.2 Manure		
Approved by	Manager Competency & Training		
Approval date:	16/10/2017		

<b>Personnel Name:</b>		<b>M.P. Kanal</b>	
<b>Qualified to work as:</b>			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
<b>Area(s) of Technical Expertise</b>			
<b>Sectoral Scope</b>	<b>Technical Area</b>		
Energy industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar TA 1.2: Energy generation from renewable energy sources		
Energy demand	TA 3.1. Energy Demand		
Waste Handling and Disposal	TA 13.1 Waste Handling and Disposal		
Agriculture	TA 15.1 Agriculture		
Approved by (Manager C & T)	Sanjay Kandari		
Approval date:	02/08/2017		

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
01	CME	Registered CPA-DD, Version 10 (CPA 9902-0001) Registered PoA-DD Version 10	Dated 03/12/2014 Dated 03/12/2014	CDM EB
02	TUV SUD	Validation Report of CPA-DD, Version 10 (CPA 9902-0001)	Dated 01/03/2015 (Report No: 00026PT)	CDM EB

		Validation Report of PoA-DD (PoA 9902), version 10	Dated 01/03/2015 (Report No: 00026PT)	
03	CME	Revised CPA-DD, Version 11 Revised PoA-DD, Version 11	Dated 03/05/2018 Dated 03/05/2018	CME
04	CDM EB	Project Webpage of CPA 9902-0001 "Promotion of the Improved Cooking Stove (ICS) – Nepal – CPA 1"	<a href="https://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/X32DWUQ7MJ56NCYKAH91I8BRLTSF0V/view">https://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/X32DWUQ7MJ56NCYKAH91I8BRLTSF0V/view</a>	CDM EB
05	CDM Meth Panel	AMS-II.G. "Energy efficiency measures in thermal applications of non-renewable biomass" (Version 6.0)	EB 77, Annex 11 Dated: 21/02/2014	CDM EB
06	CDM EB	CDM Validation and Verification standard for programme of activities (version: 01.0)	CDM-EB93-A08-STAN (EB93, Annex 8) dated 03/03/2017	CDM EB
07	CDM EB	CDM Project Standard for programme of activities (version: 01.0)	CDM-EB93-A07-STAN (EB93, Annex 7) dated 03/03/2017	CDM EB
08	CDM EB	CDM Project Cycle Procedure for programme of activities (version: 01.0)	CDM-EB93-A09-PROC (EB93, Annex 9) dated 03/03/2017	CDM EB
09	CDM EB	Standard for "Sampling and Surveys for CDM project activities and programmes of activities" (version 04.1)	EB 74, Annex 6	CDM EB
10	CDM EB	Guidelines for Sampling and Surveys for CDM Project Activities and Programme of Activities, version 03.0	EB 75, Annex 8	CDM EB
11	CDM EB	Instructions for completing the CDM-CPA-DD-FORM	Part of CPA-DD template (CDM-CPA-DD-FORM), version 08.1	CDM EB
12	UNFCCC	Kyoto Protocol (1997)	-	CDM EB

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

Table 1. CLs from this validation

CL ID	01	Section no.	Section B.7 of PoA-DD, Section D.7 of CPA-DD & Appendix	Date: 27/02/2018
<b>Description of CL</b>				
The PP shall clarify as how the homogeneity in terms of different ages of ICS shall be ensured when the sampling is done at the PoA level.				
<b>CME's response</b>				Date: 03/05/2018
<i>Stratified sampling considering the age of the stoves has been indicated in the updated design documents.</i>				
<b>Documentation provided by CME</b>				
PoA-DD & CPA-DD				
<b>DOE assessment</b>				Date: 03/05/2018
The PP has now adopted the Stratified sampling which takes into account the age of the stoves as well. Hence the issue is closed.				

Table 2. CARs from this validation

CAR ID	01	Section no.	All Sections of PoA-DD and CPA-DD	Date:	27/02/2018
<b>Description of CAR</b>					
<ol style="list-style-type: none"> <li>1. The existing version of the “CDM-SSC-PoA-DD-FORM” template has been expired and no more valid. Hence PP is requested to submit the revised PoA-DD using the latest version of the PoA-DD form available on the UNFCCC website (para 227 of CDM project standard for programme of activities, version 01.0).</li> <li>2. The existing version of the “CDM-SSC-CPA-DD-FORM” template has been expired and no more valid. Hence PP is requested to submit the revised CPA-DD using the latest version of the CPA-DD form available on the UNFCCC website (para 227 of CDM project standard for programme of activities, version 01.0).</li> </ol>					
<b>CME's response</b>					<b>Date:</b> 03/05/2018
<ol style="list-style-type: none"> <li>1. <i>The latest version of the PoA-DD form available on the UNFCCC website has now been used.</i></li> <li>2. <i>The latest version of the CPA-DD form available on the UNFCCC website has now been used.</i></li> </ol>					
<b>Documentation provided by CME</b>					
PoA-DD & CPA-DD					
<b>DOE assessment</b>					<b>Date:</b> 03/05/2018
<ol style="list-style-type: none"> <li>1. The PP has now submitted the revised PoA-DD using the latest version of the PoA-DD form available on the UNFCCC website. The same is in line with the para 227 of CDM project standard for programme of activities, version 01.0). Hence the issue is closed.</li> <li>2. The PP has now submitted the revised CPA-DD using the latest version of the CPA-DD form available on the UNFCCC website. The same is in line with the para 227 of CDM project standard for programme of activities, version 01.0). Hence the issue is closed.</li> </ol>					

CAR ID	02	Section no.	Appendix 6	Date:	27/02/2018
<b>Description of CAR</b>					
<ol style="list-style-type: none"> <li>1. The PoA-DD and CPA-DD (CPA-1) has indicated the “metallic stoves” and “mud stoves” as “types of stoves” at one place and “categories of stoves” at other places in the description provided in the PoA-DD and CPA-DD (CPA-1). Hence PP is requested to uniformly indicate the stoves as whether “type” or “category” throughout the project documents.</li> <li>2. The PP shall provide relevant details under Appendix 6 of the PoA-DD and CPA-DD (CPA1).</li> </ol>					
<b>CME's response</b>					<b>Date:</b> 03/05/2018
<ol style="list-style-type: none"> <li>1. <i>The PoA-DD and CPA-DD (CPA-1) has been revised indicating metallic stoves and mud stoves as types of stoves, uniformly across the documents.</i></li> <li>2. <i>The summary of PRC has now been included under Appendix 6 of the PoA-DD and CPA-DD (CPA1).</i></li> </ol>					
<b>Documentation provided by CME</b>					
PoA-DD & CPA-DD					
<b>DOE assessment</b>					<b>Date:</b> 03/05/2018
<ol style="list-style-type: none"> <li>1. The PP has now uniformly indicated the “types of stoves” for the metallic stoves and mud stoves in the PoA-DD and CPA-DD. The issue is closed.</li> <li>2. The PP has now provided relevant details under Appendix 6 of the PoA-DD and CPA-DD (CPA1). The issue is closed.</li> </ol>					

CAR ID	03	Section no.	Section B.7 of PoA-DD & Appendix 5	Date:	27/02/2018
<b>Description of CAR</b>					
<ol style="list-style-type: none"> <li>1. The PP shall correct the statement “<i>The sampling method is further explained in Appendix 4</i>” as available under Section B.7.2 (Part II) of the PoA-DD.</li> <li>2. The PP is requested to incorporate the necessary information under the row “<i>Measurement methods and procedures</i>” under the “Table” for the parameter “<i>Factor to consider the efficiency loss of the project device type i due to its aging at the year y</i>” (<math>\Delta\eta_{y,i,a}</math>) under the Section B.7.1 (Part II) of the PoA-DD and Section D.7.1 of the CPA-DD (CPA-1).</li> </ol>					
<b>CME's response</b>					<b>Date:</b> 03/05/2018

1. The PoA-DD has been revised and the reference to the Appendix has also been corrected corresponding the most recent form.
2. The text has been included in the under the row "Measurement methods and procedures" under the "Table" for the parameter "Factor to consider the efficiency loss of the project device type  $i$  due to its aging at the year  $y$ ".

**Documentation provided by CME**

PoA-DD &amp; CPA-DD

**DOE assessment****Date:** 03/05/2018

1. The reference to the Appendix has been corrected corresponding the most recent PoA-DD and CPA-DD form. The issue is closed.
2. The necessary information has now been provided under the row "Measurement methods and procedures" under the "Table" for the parameter "Factor to consider the efficiency loss of the project device type  $i$  due to its aging at the year  $y$ " ( $\Delta\eta_{y,i,a}$ ) under the Section B.7.1 (Part II) of the PoA-DD and Section D.7.1 of the CPA-DD (CPA-1). The issue is closed.

**Table 3. FARs from this validation**

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

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