




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

(Version 02.0)

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>	Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 3; 9948-P1-0003-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 5; 9948-P1-0005-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 6; 9948-P1-0006-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 7; 9948-P1-0007-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 8; 9948-P1-0008-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 9; 9948-P1-0009-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 10; 9948-P1-0010-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 11; 9948-P1-0011-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 12; 9948-P1-0012-CP1 Impact Carbon Global Safe Water Programme of Activities (PoA): CPA 13; 9948-P1-0013-CP1
<b>Version number of the validation report</b>	2.0
<b>Completion date of the validation report</b>	08/07/2021
<b>Version number of PoA-DD and CPA-DD applicable to this validation report</b>	Version number of PoA-DD: 7.0 CPA-DD for 9948-P1-0003-CP1, Version: 01.3 CPA-DD for 9948-P1-0005-CP1, Version: 05 CPA-DD for 9948-P1-0006-CP1, Version: 05 CPA-DD for 9948-P1-0007-CP1, Version: 05 CPA-DD for 9948-P1-0008-CP1, Version: 05 CPA-DD for 9948-P1-0009-CP1, Version: 05 CPA-DD for 9948-P1-0010-CP1, Version: 05 CPA-DD for 9948-P1-0011-CP1, Version: 05 CPA-DD for 9948-P1-0012-CP1, Version: 05 CPA-DD for 9948-P1-0013-CP1, Version: 05
<b>Title and UNFCCC ref. no. of the registered PoA into which the CPA is included</b>	9948: Impact Carbon Global Safe Water Programme of Activities (PoA)
<b>Type(s) of CPA PRCs</b>	<input checked="" type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period

	<input type="checkbox"/> Inclusion of monitoring plan <input type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation activities	
<b>Coordinating/managing entity (CME)</b>	Impact Carbon	
<b>Host Parties</b>	Host Party of the PoA	Is this the host Party of a CPA covered in this monitoring report? (yes/no)
	Rwanda	No
	Uganda	No
	Nigeria	Yes
	Kenya	No
<b>Applied methodologies and standardized baselines</b>	Methodology: AMS-III.AV. Low greenhouse gas emitting safe drinking water production systems (Version 4.0)  Standardized Baseline: Not applicable	
<b>Mandatory sectoral scopes</b>	3: Energy Demand	
<b>Conditional sectoral scopes, if applicable</b>	NA	
<b>Name and UNFCCC reference number of the DOE</b>	Earthood Services Private Limited E-0066	
<b>Name, position and signature of the approver of the validation report</b>	 Dr. Kaviraj Singh Managing Director	

## SECTION A. Executive summary

The PoA aims at distribution of the low carbon emissions water purification technologies to households, communities and institutions in Rwanda, Nigeria, Kenya and Uganda. Thus, PoA through the dissemination of these technologies aims to address the issue of lack of access to safe drinking water.

In absence of the PoA, boiling water using fossil fuels/non-renewable biomass would have been the source of availing safe drinking water. The project Water Purification Systems (WPS) provides safe drinking water without the use of non-renewable biomass/ fossil fuel, thus leading to a reduction in Green-house gas (GHG) emissions.

This validation report for PRC covers implemented CPAs 9948-P1-0003-CP1, and from 9948-P1-0005-CP1 to 9948-P1-0013-CP1 included in the registered PoA-DD.

### Scope of validation

Earthood Services Private Limited is contracted by the CME to perform the validation of the post-registration changes proposed to the CPAs under verification. The scope of validation includes the assessment of the proposed PRCs primarily identified by CME as a temporary deviation from the monitoring plan as well as part of verification assessment. This validation is an independent and objective review of all the post-registration changes proposed in revised CPA DDs against criteria stipulated in latest valid versions of CDM VVS for PoA /4/, CDM PS for PoA /2/, CDM PCP for PoA /3/ and other related and relevant requirements, as appropriate.

### Validation process

The validation process is undertaken by a qualified and competent validation team, involving a desk review of proposed post-registration changes as proposed in the Monitoring Report Version 2.1 /5/ provided by CME, interview or interactions with the representatives of CME, reporting and closure of findings, as appropriate and preparing a draft validation report complying with the relevant CDM requirements. The validation report prepared by the validation team is reviewed by an independent Technical Review team (one or more members). The final validation report that is accepted by Technical Reviewer is then approved on behalf of Earthood Services Private Limited and processed further as per CDM procedures.

### Conclusion

The review of the revised MR, supporting documentation and subsequent follow-up actions (interviews) have provided ESPL with sufficient evidence to determine the fulfilment of stated criteria.

ESPL has performed the validation of the post registration changes of the CDM PoA “Impact Carbon Global Safe Water Programme of Activities (PoA)” having UNFCCC Ref. Number 9948. The post registration change was identified during the verification for the 5<sup>th</sup> monitoring period - 22/03/2020 – 31/12/2020**(both days included)** of the PoA.

The proposed post-registration change includes the following:

a) During this monitoring period, a temporary deviation from the registered monitoring plan occurred as CME was unable to monitor the monitored parameters as per the sampling plan.

The validation of post-registration changes concluded that the type of changes proposed in the revised MR Version 2.1 dated 14/06/2021/5/ can be submitted as notification of changes to a CPA to secretariat in-line to para 168 (a) of the PCP for PoA. The temporary deviation applies conservative method and thus, it is being submitted along with issuance request as per Appendix 2 of PS for PoA/2/. The validation team confirms that the proposed post-registration change complies with all the relevant CDM requirements of the applied methodology and all other applicable tools and guidance.

This report is the assessment opinion for temporary deviation and request is hereby submitted with issuance request to CDM EB.

**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	IR	Mahala	Deepika	Central Office	Y	N	Y	Y
2.	Verifier	IR	Vatsa	Vaishali	Central Office	Y	N	Y	Y
3.	Technical Expert	IR	Mahala	Deepika	Central Office	Y	N	Y	Y
4.	Methodology Expert	IR	Mahala	Deepika	Central Office	Y	N	Y	Y
5.	Local Expert	IR	Luka	Kumden	Central Office	Y	N	Y	Y

**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	IR	Garg	Shreya	Central Office
2.	TA to TR	IR	Garg	Shreya	Central Office
3.	Approver	IR	Singh	Kaviraj	Central Office

**SECTION C. Means of validation****C.1. Document review**

The complete list of documents/evidences reviewed or referenced during the validation is provided in Appendix 3 of this report.

**C.2. On-site inspection**

Duration of on-site inspection: NA				
No.	Activity performed on-site	Site location	Date	Team member

The temporary deviation was identified at the time of verification assessment. Following para 231 of the PS for PoA Version 2/2/ temporary deviation was proposed during the current monitoring period. No separate site-visit was conducted for the scope of validation of PRC. The team conducted a remote audit survey for verification as explained in the verification report /6/ submitted along with request for issuance. Since the temporary deviation was identified during the verification of the fifth monitoring period (22/03/2020-31/12/2020, both days included)) and the scope is not complete validation of the PoA and in-acordance with para 184 of the VVS for PoA/4/ it is not mandatory for the DOE to conduct an on-site assessment. A thorough desk review conducted by the validation team was used as an alternative means to validate the temporary deviation.

**C.3. Interviews**

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Brown	Julie	Impact Carbon	12/05/2021	Post-registration changes  Temporary deviations	Deepika Mahala
2.	Neville	Tim	Impact Water	12/05/2021	Post-registration changes	Deepika Mahala, Vaishali Vatsa and Kumden Nanbal Luka
3.	Akinyemi	Zacch	Impact Water Nigeria	12/05/2021	Post-registration changes	Deepika Mahala, Vaishali Vatsa and Kumden Nanbal Luka
4.	Obunaya	Samuel	Impact Water Nigeria	12/05/2021	Post-registration changes	Deepika Mahala, Vaishali Vatsa and Kumden Nanbal Luka
5.	Huelsenbeck	Mark	Impact Water Nigeria	12/05/2021	Post-registration changes	Deepika Mahala, Vaishali Vatsa and Kumden Nanbal Luka
6.	Lohia	Rohit	Climate Secure India Private Limited	12/05/2021	Post-registration changes	Deepika Mahala, Vaishali Vatsa and Kumden Nanbal Luka
7.	-	Nihar	Climate Secure India Private Limited	12/05/2021	Post-registration changes	Deepika Mahala, Vaishali Vatsa and Kumden Nanbal Luka
8.	Kumar	Ritesh	Climate Secure India Private Limited	12/05/2021	Post-registration changes	Deepika Mahala, Vaishali Vatsa and Kumden Nanbal Luka

**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	-	-	-
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents	-	-	-
Corrections	-	-	-
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 methodological regulatory documents	-	-	-
Changes to the project design	-	-	-
Changes specific to afforestation and reforestation	-	-	-

activities			
Others (please specify)	-	-	-
<b>Total</b>	00	00	00

## SECTION D. Validation findings

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

<b>Means of validation</b>	This PRC proposes only a temporary deviation. Thus, as per para 169 of PCP for PoA /3/ the changes were required to be reflected only in the MR and does not require any revision in the CPA-DDs/7/.
<b>Findings</b>	No findings were raised
<b>Conclusion</b>	Not Applicable

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

<b>Means of validation</b>	<p>As part of the verification of the fifth monitoring period covering a monitoring period from 22/03/2020 to 31/12/2020, wherein the monitoring report /5/ consists of CPAs 9948-P1-0003-CP1, 9948-P1-0005-CP1 to 9948-P1-0013-CP1, the verification team found temporary deviations from the registered monitoring plan</p> <p><b>Temporary deviation for not following the monitoring plan in line with the registered monitoring plan/7/:</b></p> <ol style="list-style-type: none"> <li><b>1. Monitoring for Multi Barrier-UV systems have not been conducted.</b> <ol style="list-style-type: none"> <li><b>a. CME has proposed to consider the baseline emissions for Multi-barrier UV Systems for the requested monitoring period (22/03/2020 to 31/12/2020) as 0 tCO<sub>2</sub>e in line with para 228(b)(i) of PS for PoA version 2.0 (Applicable to CPA-9948-P1-0003-CP1),</b></li> </ol> </li> </ol> <p><u><b>Assessment:</b></u> The PoA involves distribution of water purification systems of 3 types i.e Ultra Flo, Ultra Tab and Multi Barrier-UV.</p> <p>The registered monitoring plan and applied methodology/8/ requires that all surveys (as part of monitoring parameters such as Water Quality, Operational Units, Existence of public distribution network of safe drinking water) to be conducted annually implying that the monitoring results of each such survey/test could only be applied for one year (365 days).</p> <p>However, The CME had not conducted the monitoring surveys for Multi Barrier UV units in the previous MP4 (01/01/2020-21/03/2020)/11/ and also has not conducted the monitoring for calculation of baseline emissions for Multi-barrier UV systems during the current monitoring period i.e, MP5 (22/03/2020-31/12/2020) also. Thus, there are no monitoring results for a period of more than one year. The last monitoring survey was done on 13/01/2020-05/02/2020 for MP3 as confirmed from MP3B1 verification report/10/ and that result was applied to the MP3 (23/05/2019-31/12/2019).</p> <p>Multi-barrier UV units were distributed under CPA 9948-P1-0003-CP1. The CPA 9948-P1-0003-CP1 with its distribution size of systems (262 units) would have yielded only a small number of ERs /9/ for the period 22/03/2020-31/12/2020. The CME clarified that associated monitoring costs and other carbon transaction costs would have been significantly higher against the value of ERs that could have been claimed for the period 22/03/2020-31/12/2020. The cost of Aquagenx test is remarkably high and conducting the monitoring was very challenging at the time of pandemic. Thus, the CME decided to not monitor the Multi barrier UV systems.</p> <p>Thus, CME sought temporary deviation for this non-conforming monitoring period in line with para 228(b) (i) of PS for PoA version 2.0/2/.</p>
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The length of the monitoring period under verification is from 22/03/2020-31/12/2020 (i.e., 285 days). **Accordingly, CME has identified the entire period (22/03/2020-31/12/2020) during the current monitoring period when no monitoring was conducted.**

The CME has applied alternative approaches have resulted in conservative estimate of greenhouse gas (GHG) emission reductions or net anthropogenic GHG removals in-line to para 228(b)(i) of PS for PoA Version 2.0/2/. The baseline emissions for all the Multi barrier UV systems have been considered 0. The alternative approach was accepted by the validation team as it is conservative. The temporary deviation is sought for the entire monitoring period i.e., from 22/03/2020 to 31/12/2020. The end-date of the temporary deviation i.e., 31/12/2020 is the same as the end date of the monitoring period.

The CME shall continue to monitor all the data required for calculation of baseline emissions as per the registered monitoring plan in future.

**2. The CME has proposed to consider the project emissions for Multi-barrier UV Systems for the requested monitoring period (22/03/2020 to 31/12/2020) to the maximum capacity for the entire non-conforming monitoring period In line with para 228(b)(ii) of PS for PoA version 2.0. (Applicable for 9948-P1-0003-CP1 only)**

**Assessment:**

As discussed above that CME has not conducted monitoring for Multi Barrier UV systems for the current monitoring period. The Multi Barrier-UV consumes electricity and generates project emissions as discussed under section E.3.6.2 of the current MP verification report/6/. Thus, CME in-line to para 228(b) (ii) of PS for PoA Version 2.0/2/ accounted transmission and distribution losses in calculating the project emissions related to Multi Barrier-UV.

Thus, CME sought temporary deviation for this non-conforming monitoring period in line with para 228(b) (ii) of PS for PoA version 2.0/2/.

The length of the monitoring period under verification is from 22/03/2020-31/12/2020 (i.e.,285 days). Accordingly, CME has identified the entire period (22/03/2020-31/12/2020) during the current monitoring period when no monitoring of was conducted for Multi Barrier UV systems.

262 Multi Barriers systems were found to be eligible for sampling and ER calculation (rendering clean water) during the current MP. The project emission is calculated through following equation:

$$PE_{y,i} = T_{y,i} \times EC_{PJ,j,y} \times EF_{EL,j,y} \times (1 + TDL_{j,y})$$

Where  $EC_{PJ,j,y}$ ,  $EF_{EL,j,y}$ ,  $TDL_{j,y}$  were fixed at CPA level as checked from the CPA DD/7/.

All these 262 systems have been considered for calculation of project emissions. The calculation of project emission was checked in the ER sheet, worksheet titled "ER summary", cell E19 and found to be correct. Please see detailed assessment in E.3.6.2. of the VCR/6/. Since, the CME has considered all working MultiBarrier UV systems for project emission it was found to be the the most conservative values possible during the non-conforming monitoring period.

The alternative approaches have resulted in conservative estimate of greenhouse gas (GHG) emission reductions or net anthropogenic GHG removals. The temporary deviation is sought for the entire monitoring period i.e., from 22/03/2020 to 31/12/2020. The end-date of the temporary deviation i.e., 31/12/2020 is the same as the end date of the monitoring period. It is important to note that this temporary deviation is applicable to only **9948-P1-0003-CP1** as the

Multi barrier UV systems were only distributed under this CPA.

The CME would continue to monitor all the data required for calculation of project emissions as per the registered monitoring plan in future.

- 3. CME has considered 0 ERs for the systems that were consumed fully/discontinued prior to the start of monitoring period (i.e., operational days = 0). Also, these systems were not part of sampling and ER calculations. (Applicable for 9948-P1-0003-CP1, 9948-P1-0005-CP1 to 9948-P1-0013-CP1)**

CME had identified that there are water purification systems(UltraFlo / UltraTab/ Multi Barrier UV) in the database/9/ which were fully consumed/discontinued prior to the start of the current monitoring period. The CME could not provide subsequent supplies for these systems to the corresponding institutions, thus, conservatively has decided to claim 0 ERs for these systems

The number of such systems are:

Ultra FLO: 4217

Ultra Tab: 738 units

Muli Barrier UV: 11

Total : 4966 units

The validation team checked that column 'AP', worksheet titled "MP5 Sales Database" lists down the systems being eligible for ER calculation and the systems for which ERs have been considered as 'zero' which confirmed the numbers stated above.

he CME has not considered the aforesaid systems as part of the sampling plan. Hence, for these systems, the monitoring parameters (Operational Units, Water Quality- Aquagenx Tests and Existence of public distribution network of safe drinking water) were not determined through survey and/or tests.

The validation team checked the sales database/9/ in the ER calculation sheet provided by CME which distinctively under column 'AP' lists down the systems not being considered for ER calculation as they do not have residual capacity from the previous monitoring period (column 'AB'), neither have received subsequent supplies (column 'AC').The operational days (column AO) and ERs for such systems have been considered as 'zero' and they have not been considered as a part of the population for sampling

The random number generator screenshot and UIDs of monitored samples was checked, which showed that samples which have column AQ as 'No', have not been considered for sampling.

**Since, the CME has not considered aforesaid systems installed /distributed for sampling and monitoring purpose , CME in-line to para 228(a) of PS for PoA Version 2.0/2/, followed an alternative approach .Following the 228(a) of PS for PoA/2/, the CME has not considered/claimed any ERs for the systems which had zero residual capacity from previous MP, received no subsequent supplies or were discontinued before the start of the MP rendering zero operational days for the entire non-conforming monitoring period (i.e., 22/03/2020 to 31/12/2020, both days included) as checked from the ER sheet/9/.**

Thus, the alternative approaches were accepted by the validation team. The temporary deviation is sought for the entire period of MP i.e., from 22/03/2020 to 31/12/2020, both days included. The end-date of the temporary deviation i.e., 31/12/2020 is the same as the end date of the monitoring period.

The CME would continue to monitor all the data required for calculation of emission reductions as per the registered monitoring plan for future verifications.



	Since the applied values were found to be the most conservative values and temporary deviation has been proposed for the current monitoring period for the CPAs, thus in-line with Appendix 2 of PS for PoA/2/, this request is being submitted with issuance track.
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	The DOE confirms that. <ul style="list-style-type: none"> <li>• The deviation applies for the monitoring period from 22/03/2020 to 31/12/2020 (as per para 251 of CDM VVS PoA Version 2 /4/).</li> <li>• There will be no over-estimation of emission reductions due to deviation as the assumptions and formulae are applied conservatively.</li> <li>• The deviation complies with the relevant requirements related to the temporary deviation from the registered monitoring plan as prescribed in the PS for PoA/2/ and VVS for PoA/4/.</li> </ul>

**D.3. Corrections**

<b>Means of validation</b>	Not Applicable
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

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

<b>Means of validation</b>	Not Applicable
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

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

<b>Means of validation</b>	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 methodological regulatory documents**

<b>Means of validation</b>	Not Applicable
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

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

<b>Means of validation</b>	Not Applicable
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

**D.8. Changes specific to afforestation and reforestation activities**

<b>Means of validation</b>	Not Applicable
<b>Findings</b>	Not Applicable
<b>Conclusion</b>	Not Applicable

**SECTION E. Internal quality control**

A draft validation report that is prepared by assessment team is reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by Earthood were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable CDM rules/requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of the technical review team are independent of the assessment team.

During the technical review process, additional findings may be identified, or the closed-out findings may be opened, which needs to be satisfactorily resolved before the request for registration/issuance is submitted to UNFCCC. The independent technical reviewer may either approve the report as such or reject/return the

same in such case providing the comments/findings/issues that need to be resolved by the assessment team. The decision taken by the Technical Reviewer is final and authorized on behalf of Earthood Services Private Limited.

**SECTION F. Validation opinion**

Earthood Services Private Limited (Earthood) has performed a validation of the post-registration changes of the 10 CPAs (9948-P1-0003-CP1, and 9948-P1-0005-CP1 to 9948-P1-0013-CP1) project activity included under the PoA titled "Impact Carbon Global Safe Water Programme of Activities (PoA)". Earthood is accredited for the validation function for specific sectoral scopes (3: Energy demand) the CDM programme of activity falls into it.

The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM project activities. The review of the registered CPA-DDs/7/, applied methodologies/8/, supporting documentation and subsequent follow-up actions (including interviews), have provided Earthood with sufficient evidence to determine the fulfilment of stated criteria.

It is Earthood's opinion that the temporary deviation proposed in the monitoring report does not raise any concern with regards to the applicability of established baseline, additionality or scale of the project activity. The changes are only applicable to the current monitoring period and do not have any impact on the registered CPA-DDs.

The changes are only in the Monitoring Report of the current monitoring period. Therefore, the PRC request is being submitted along with the issuance as per Appendix 2 of PS for PoA version 2.0/2/.

## Appendix 1. Abbreviations

	Full texts
AMS	Approved Methodology for Small-scale
BE	Baseline Emission
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CME	Coordinating and Managing Entity
CO <sub>2</sub>	Carbon di oxide
CPA	Component Project Activity
CP	Crediting Period
DNA	Designated National Authority
DR	Desk Review
DOE	Designated Operational Entity
EB	Executive Board
ER	Emission Reduction
ESPL	Earthood Services Private Limited
FAR	Forward Action Request
GHG	Green House Gas
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
MP	Monitoring Plan
PCP	Project Cycle Procedure
PE	Project Emission
PoA DD	Programme of Activities Design Document
PP	Project Participant
PRC	Post Registration Changes
PS	Project Standard
QA/QC	Quality Assurance/Quality Control
tCO <sub>2</sub> e	tonnes of Carbon di Oxide equivalent
UID	Unique Identification
UNFCCC	United Nations Framework Convention on Climate Change
V	Version
VVS	Validation and Verification Standard
WPS	Water Purification Systems

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

Competence Statement	
<b>Name</b>	Deepika Mahala
<b>Country</b>	India
<b>Education</b>	M. Sc. (Environmental Management), GGSIP University

	B.Sc. Hons. (Chemistry), Sri Venkateshwar College, DU		
<b>Experience</b>	5 Years +		
<b>Field</b>	Climate Change		
<b>Approved Roles</b>			
<b>Team Leader</b>	YES		
<b>Validator</b>	YES		
<b>Verifier</b>	YES		
<b>Methodology Expert</b>	ACM0002, AMS.I.D., AMS.I.A, AMS.III.AV, AMS.II.G		
<b>Local expert</b>	YES (India)		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	YES		
<b>TA Expert</b>	YES (TA 1.2 & TA 3.1)		
<b>Reviewed by</b>	Shreya Garg	<b>Date</b>	15/04/2021
<b>Approved by</b>	Anshika Gupta	<b>Date</b>	15/04/2021

<b>Competence Statement</b>			
<b>Name</b>	Vaishali Vatsa		
<b>Education</b>	M.Sc. (Environmental Studies and Resource Management), TERI University		
<b>Experience</b>	4 months		
<b>Field</b>	Climate Change		
<b>Approved Roles</b>			
<b>Team Leader</b>	NO		
<b>Validator</b>	Yes		
<b>Verifier</b>	Yes		
<b>Methodology Expert</b>	NO		
<b>Local expert</b>	NO		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	NO		
<b>TA Expert (X.X)</b>	NO		
<b>Trainee</b>	NO		
<b>Reviewed by</b>	Shreya Garg	<b>Date</b>	30/12/2019
<b>Approved by</b>	Anshika Gupta	<b>Date</b>	02/01/2020

<b>Competence Statement</b>			
<b>Name</b>	Kumden Nanbal Luka		
<b>Country</b>	Nigeria		
<b>Education</b>	B.tech. in Urban and Regional Planning		
<b>Experience</b>	1+ years		
<b>Field</b>	Environment; Urban-Rural planning		
<b>Approved Roles</b>			
<b>Team Leader</b>	No		
<b>Validator</b>	No		

<b>Verifier</b>	No		
<b>Methodology Expert</b>	No		
<b>Local expert</b>	Yes (Nigeria)		
<b>Financial Expert</b>	No		
<b>Technical Reviewer</b>	No		
<b>TA Expert</b>	No		
<b>Reviewed by</b>	Shreya Garg	<b>Date</b>	23/11/2018
<b>Approved by</b>	Anshika Gupta	<b>Date</b>	23/11/2018

Name	Shreya Garg		
Country	India		
Education	M.Sc. (Climate Science & Policy), TERI University		
Experience	6 Years +		
Field	Climate Change		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	AMS.I.A., AMS.I.C., AMS.I.D., AMS.I.F., AMS.II.D., AMS.II.G., AMS.II.J., AMS.III.AV., ACM0002, ACM0012		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	YES (TA 1.2, TA 3.1)		
Reviewed by	Abhishek Mahawar	Date	01/03/2018
Approved by	Ashok Gautam	Date	01/03/2018

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Impact Carbon	Revised and Approved PoA-DD	Version 7.0	CME
2	UNFCCC	PS for PoA	Version 2.0	Others
3	UNFCCC	PCP for PoA	Version 2.0	Others
4	UNFCCC	VVS for PoA	Version 2.0	Others
5	Impact Carbon	Monitoring Report	Version 2.1 dated 14/06/2021`	CME
6	ESPL	Verification Report (5 <sup>th</sup> Monitoring Period-MR Number 4)	Version 2.0 dated 08/07/2021	Others
7	Impact Carbon	Registered CPA-DD-for CPA-9948-P1-0003-CP1  Registered CPA-DDs for – CPA-9948-P1-0005-CP1 to CPA-9948-P1-0013-CP1	For CPA-9948-P1-0003-CP1, Version 1.3, Dated: 17/02/2017  For CPA-9948-P1-0005-CP1 to 9948-P1-0013-CP1, Version 5,	Other

			Dated: 22/03/2019	
8	UNFCCC	Applied Methodology: AMS-III.AV. Low greenhouse gas emitting safe drinking water production systems	Version 4.0	Others
9	Impact Carbon	Emission Reduction Sheet	Version 1.0	CME
10	ESPL	MP3B1 VCR <a href="https://cdm.unfccc.int/PoAIssuance/iss_db/poais170588077/view">https://cdm.unfccc.int/PoAIssuance/iss_db/poais170588077/view</a>	Version 3.1	Other
11	ESPL	PRC validation report for MP4B4 <a href="https://cdm.unfccc.int/PRCContainer/DB/prcp396326470/view">https://cdm.unfccc.int/PRCContainer/DB/prcp396326470/view</a>	Version 3.0	Other

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

Table 1. CLs from this validation

CL ID	NA	Section no.	NA	Date: DD/MM/YYYY
Description of CL				
NA				
CME's response				Date: DD/MM/YYYY
NA				
Documentation provided by CME				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Table 2. CARs from this validation

CAR ID	NA	Section no.	NA	Date: DD/MM/YYYY
Description of CAR				
NA				
CME's response				Date: DD/MM/YYYY
NA				
Documentation provided by CME				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Table 3. FAR from this validation

FAR ID	00	Section No.		Date : DD/MM/YYYY
Description of FAR				
Project participant response				Date : DD/MM/YYYY
Documentation provided by project participant				
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"><li>• Ensure consistency with version 02.0 of the “CDM validation and verification standard for programmes of activities” (CDM-EB93-A08-STAN);</li><li>• Make editorial improvements.</li></ul>
01.0	29 December 2017	Initial publication.

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Decision Class: Regulatory  
Document Type: Form  
Business Function: Registration  
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