

**Validation report for for post-registration changes for  
GS4GG programme of activities**

BASIC INFORMATION	
<b>Title and UNFCCC reference number of the programme of activities (PoA)</b>	GHG Emission Reduction through use of Bondhu Chula (Improved Cook Stoves) in Bangladesh
<b>Process track</b>	<input checked="" type="checkbox"/> Prior approval <input type="checkbox"/> Issuance <input type="checkbox"/> Renewal of PoA period
<b>Version number of the validation report</b>	04
<b>Completion date of the validation report</b>	12/12/2025
<b>Version number of PoA-DD applicable to this validation report</b>	06.0
<b>Type(s) of PoA PRCs</b>	<input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Inclusion of monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied methodologies, standardized baselines, or other methodological regulatory documents <sup>1</sup> <input type="checkbox"/> Changes to the programme design <input type="checkbox"/> Addition of CPA inclusion template <input type="checkbox"/> Change of coordinating/managing entity <input type="checkbox"/> Changes specific to afforestation and reforestation activities
<b>Coordinating/managing entity (CME)</b>	Bangladesh Bondhu Foundation
<b>Host Parties</b>	People's Republic of Bangladesh
<b>Applied methodologies and standardized baselines</b>	Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC) v 4.0
<b>Mandatory sectoral scopes</b>	03
<b>Conditional sectoral scopes, if applicable</b>	NA
<b>Name and UNFCCC reference number of the DOE</b>	E-0052:Carbon Check (India) Private Limited

<sup>1</sup> Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).



# Carbon

Name, position and signature of the approver of the validation report

A handwritten signature in blue ink, appearing to read 'Amit Anand', is written over a horizontal line.

Amit Anand,CEO

## **SECTION A. Executive summary**

The Co-ordinating/Managing Entity (CME)/Project Representative has appointed the VVB, Carbon Check (India) Private Ltd. (Carbon Check), to perform the validation of the Post Registration Changes to be included in the registered PoA “GHG Emission Reduction through use of Bondhu Chula (Improved Cook Stoves) in Bangladesh” (hereafter “PoA”) /06/.

The independent Validation by the VVB is required to confirm the post registration changes of the VPA. This report summarises the post registration changes of the PoA with respect to requirements of GS Design Change Request Requirements (version 1.1) /B03-1/ and VVS, version 02.0 /B03-04/. This report contains the findings and resolutions from the validation and a validation opinion.

The project activity attempts to address the aforesaid issue, by effecting widespread adoption of ICS in households across Bangladesh. ICSs disseminated under the VPAs in this PoA are more efficient in transferring heat from the fuel to the pot than the baseline traditional stoves. These ICSs have been designed to increase heat transfer and reduce smoke, PM and other gaseous emissions, thus creating cleaner indoor air for women and children, while also matching the utensils and cooking habits of people in Bangladesh. The improvement in efficiency is achieved by properly adjusting the dimensions of the combustion chamber and ensuring effective air flow thereby aiding complete fuel combustion and reduced fuel consumption, according to the PoA-DD /01/.

The PoA is implemented by Bangladesh Bondhu Foundation (BBF) as the Coordinating and Managing Entity (CME) /02//03/ of the PoA

### **Scope:**

The scope of the PRC validation is defined as an independent and objective review of the revised PoA-DD /01/ which include corrections to the registered PoA /B01/.

### **Validation methodology and process**

The validation has been performed as described in the GS Design Change Request Requirements (version 1.1) /B03-1/ and GS4GG VVS, version 02.0 /B03-4/ and constitutes the following steps:

- Review of the Registered PoA-DD /B01/;
- Review of the revised PoA-DD /01/
- Desk review of relevant documents;
- Interview with representatives of the CME.

### **Conclusion**

This report arrives at the positive assessment opinion of the proposed PRC in the revised PoA-DD /01/. The validation team confirms that the proposed changes to the PoA-DD are in compliance with the registered PoA-DD /B01/ and the GS4GG Design Change Request Requirements (version 1.1) . Also, the proposed changes meet all relevant requirements of GS.

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Team Leader/Technical Expert	IR	Halder	Manas	Carbon Check
2.	Trainee Assessor	IR	Mazroy	Nadir	Carbon Check
3.	Technical Reviewer	IR	C	Indumathi	Carbon Check
4.	Approver	IR	Anand	Amit	Carbon Check

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

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

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

The design change request was submitted under prior notification track. The validation team reviewed and assessed whether the proposed or actual changes comply with the relevant requirements according to Design change requirements and procedure v2.0. For this, the VVB has carried out on-site inspection and interviews to assess the information included in the PoA-DD /08/.

Desk review of the submitted revised PoA-DD (version 4, dated 25/08/2025) /01/ and supportive evidences was done by the validation team. Through the review of validation reports, survey results, comparing the relevant evidence and interview with the CME's representatives, Carbon Check has confirmed that the PoA design corrections are in line with the GS4GG requirements.

Validation team conducted on-site inspection and interviews/08/ with the CME representatives on different topics as mentioned in section C.3 below

**C.3. Interviews**

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Parihar	Ashutosh	Climate Secure	22/09/2025	Discussion on the revised PoA-DD and the proposed PRC	Manas Halder, Nadir Mazroy
2.	Kumar	Ritesh	Climate Secure	22/09/2025	Discussion on the revised PoA-DD and the proposed PRC	Manas Halder, Nadir Mazroy
3.	Mridha	Ruman	BBF – Senior communication officer	22/09/2025	Discussion on the implementation and monitoring	Manas Halder, Nadir Mazroy
4.	Saha	Atanu	BBF- Deputy general manager	22/09/2025	Discussion on the implementation	Manas Halder, Nadir Mazroy

					and monitoring, subsidies and prices. Training of employees/ Local partners	
5.	Islam	Md. Hasibul	BBF- ITofficer	22/09/2025	Discussion on the implementation and monitoring	Manas Halder, Nadir Mazroy
6.	Hossain	Shamstabre	BBF – District Manager	22/09/2025	Discussion on the bondhu chula installation, Maintanance and monitoring	Manas Halder, Nadir Mazroy
7.	Mahbub	Hossain	BBF – Zonal Manager	22/09/2025	Discussion on the bondhu chula installation, Maintanance and monitoring roles of different employees	Manas Halder, Nadir Mazroy
8.	Hossain	Md.Jubaed	BBF – DCF	22/09/2025	Discussion on the bondhu chula installation, Maintanance and monitoring roles of different employees	Manas Halder, Nadir Mazroy
9.	Ali	Md. kawsqr	BBF – DSM	22/09/2025	Discussion on the bondhu chula installation, Maintanance and monitoring roles of different employees, Training of employees/ Local partners	Manas Halder, Nadir Mazroy
10	Begum	Amjila	Chula doctor	22/09/2025	Discussion on installation, Payments, maintenance, Trainings	Manas Halder, Nadir Mazroy
11	Azad	Abdul Kalam	Local Partner, Azad Sanitory	22/09/2025	Discussion on the manufacturing, Raw material, operation with BBF, installation costs and payments.	Manas Halder, Nadir Mazroy

#### 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 PoA-DD form	NA	CAR – 03	NA
Corrections	CL – 03,	CAR – 01, CAR – 02	NA
Inclusion of monitoring plan	NA	NA	NA
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied	NA	NA	NA

methodologies, standardized baselines, or other methodological regulatory documents			
Changes to the programme design	NA	NA	NA
Addition of VPA inclusion template	NA	NA	NA
Change of coordinating/managing entity	NA	NA	NA
Changes specific to afforestation and reforestation activities	NA	NA	NA
Others ( Avoidance of double counting, Stake holder consultation report )	CL – 01, CL - 02	NA	NA
<b>Total</b>	<b>3</b>	<b>3</b>	<b>0</b>

## SECTION D. Validation findings

### D.1. Compliance with the PoA-DD form

<b>Means of validation</b>	DR, I
<b>Findings</b>	CAR 03 raised. Findings raised has been sucessfully resolved by CME. Please refer to Appendix 4 for detailed information.
<b>Conclusion</b>	<p>Carbon Check confirms the following:</p> <ul style="list-style-type: none"> <li>The compliance of the revised PoA-DD /01/ (both in tracked-change and clean versions) with the valid version of the applicable PoA-DD form and the instructions therein for filling the form. This complies to the requirement of GS Design Change Request Requirements (version 2.0) /B03-01/ and GS4GG VVS, version 02.0 /B03-4/.</li> <li>CME has used the latest version of the PoA Design Document and assessment team confirms that the information transferred to the new version of PoA-DD /01/ is materially the same as that included in the PoA-DD /B01/. This complies to the requirement of Design Change Request Requirements (version 2.0) /B03-1/ and GS4GG VVS, version 02.0 /B03-4/.</li> </ul> <p>The validation team confirms that the requirements of the PoA Design Document Template /B03-5/ filling guidelines, Design Change Requirements /B03-1/ and GS4GG VVS, version 02.0 /B03-4/ have been appropriately met.</p>

### D.2. Corrections

<b>Means of validation</b>	DR, I				
<b>Findings</b>	CL – 03, CAR – 01 and CAR – 02 raised. Findings raised has been sucessfully resolved by CME. Please refer to Appendix 4 for detailed information.				
<b>Conclusion</b>	<p>In line with section 6.1.2 of Design Change Requirements v1.1, CME has chosen “prior notification track” for approval of design change and submitted revised PoA-DD dated . The details of the Design Change are as follows:</p> <p>The corrections made to the original PoA - DD are those required by the new template, including demonstration of the Safeguarding Principles Assessments, Eligibility under GS4GG, Eligibility under activity requirements at VPA- equalent level, and minor editorial corrections to enhance contextual understanding.</p> <p>The baseline methodology is updated in to TPDDTEC version 4.0 and scale of the PoA changed to largescale.</p> <p>The corrections are assessed clearly in as following:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Correction</th> <th style="width: 50%; text-align: center;">DOE assessment</th> </tr> </thead> <tbody> <tr> <td>Safeguarding Principles assessment has been conducted at real case VPA level</td> <td> <p>Validation team confirms this correction is as per the GS4GG VVS version 2.0.</p> <p>Based on review of the PoA-DD and interview with CME/08/, the VVB confirms that safeguarding principles are assessed at VPA level as per VPA inclusion criteria in PoA- DD.</p> </td> </tr> </tbody> </table>	Correction	DOE assessment	Safeguarding Principles assessment has been conducted at real case VPA level	<p>Validation team confirms this correction is as per the GS4GG VVS version 2.0.</p> <p>Based on review of the PoA-DD and interview with CME/08/, the VVB confirms that safeguarding principles are assessed at VPA level as per VPA inclusion criteria in PoA- DD.</p>
Correction	DOE assessment				
Safeguarding Principles assessment has been conducted at real case VPA level	<p>Validation team confirms this correction is as per the GS4GG VVS version 2.0.</p> <p>Based on review of the PoA-DD and interview with CME/08/, the VVB confirms that safeguarding principles are assessed at VPA level as per VPA inclusion criteria in PoA- DD.</p>				

	<p>Section C: DEMONSTRATION OF ADDITIONALITY</p> <p>Additionality of the future VPAs can be demonstrated by below options.</p> <ul style="list-style-type: none"> <li>• There are no laws or regulations within the PoA boundary mandating its activities. The PoA involves voluntary, coordinated actions by the CME. Relevant Bangladeshi policies supporting improved cookstoves include:</li> <li>• <b>National Renewable Energy Policy, 2008</b> – Promotes renewable energy and improved biomass stoves.</li> <li>• <b>SREDA Act, 2012</b> – Establishes SREDA to advance renewable energy and energy efficiency.</li> <li>• <b>Country Action Plan for Clean Cookstoves (2013)</b> – Aims for 100% improved cookstove penetration by 2030.</li> <li>• <b>Energy Efficiency and Conservation Master Plan (2015)</b> – Focuses on energy-efficient cookstoves to cut emissions.</li> <li>• The PoA activities are not financially viable without VER revenue and would not occur otherwise. Additionality is ensured through eligibility criteria (#7), and once proven for the real case VPA, it applies to all subsequent VPAs</li> </ul>	<p>Based on the review of national policies, the VVB confirms that there is no legal or regulatory requirement for implementing the PoA activities. The implementation is voluntary and driven solely by the CME. The financial analysis and project documentation sufficiently demonstrate that the activities are not viable without carbon revenue. Furthermore, the eligibility criteria (specifically criterion #7) ensure that only additional VPAs are included under the PoA. The VVB concludes that the demonstration of additionality for the real case VPA is valid and applicable to all subsequent regular case VPAs under the PoA. Further VVB reviewed the ODA declaration submitted by CME/05/ and confirmed no financial assistance received by the CME for the PoA implementation.</p>
	<p>SDG related changes. In the designed certified PoA-DD, the impacts on SDG 4 is not included as part of monitoring report. In this design change SDG 4 has been included in the PoA – DD monitoring plan.</p>	<p>This correction has reviewed by the VVB for analysing the appropriateness of indicator/ parameter in measuring the respective SDG impact.</p> <p><b>SDG Targeted : SDG 4- Quality Education.</b> 4.4 - By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship</p> <p>Indicator - Number of employees provided skill development training.</p> <p>VVB has reviewed the indicator and confirmed as an effective measurement of the SDG 4 impact by the project. VVB through onsite interview/08/ confirmed project implementation includes skill development trainings.</p>

	Change in office Address <b>CHECK</b>	CME has changed the office address, which is consistently reflected in all sections of the PoA-DD.
	Duration of PoA	<p>As per footnote 36 under para 8.9.3 of the Programme of Activity Requirements and Procedures, Version 3.0, "The maximum total duration of the Transitioning PoA shall be 28 years, as envisaged at the time of registration under an earlier version of the Gold Standard." The PoA was registered under GS v1.1 originally with a 28 year (7 * 4 year) of crediting period and then transitioned to GS4GG. Hence, the duration of the PoA shall remain unchanged and has been reported as 28 years in section D.2 of the PoA-DD.</p> <p>Therefore, the VVB considers the design change is acceptable.</p>
	Other changes - Corrections in The eligibility under Gold Standard in the inclusion criterion for VPAs.	<p>Other minor corrections in the eligibility criteria is included for the better contextual understanding and applicable evidence. VVB reviewed the corrections and confirmed there no material variation in the content of registered PoA due to the changes.</p> <p>the validation team found these amendments to be correct and consistent throughout the VPA-DD and all project records and thus acceptable</p>

This amendment corrects an oversight in the original PoA-DD, ensuring consistency and accuracy across all project records and there is no impact of the design change with respect to those parameters on the following aspects

- Additionality of the project activity,
- Applicability of the methodology and other methodological regulatory documents with which the project activity,
- Compliance with the monitoring plan and the applied methodology,
- Level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the design certified monitoring plan,
- Scale of the project activity,
- Stakeholder consultation,
- Sustainable development criteria,
- Safeguarding assessment,
- Legislation.

The validation team confirms that these changes do not change the project description or design. The proposed corrections in the revised PoA-DD are accurate reflection of the actual information.

The validation team has accepted all the proposed changes in the PoA-DD /01/ in accordance with requirements of GS4GG VVS, version 02.0 and GS4GG requirements and confirms that the corrected information is an accurate reflection of actual project information.

**D.3. Inclusion of monitoring plan**

<b>Means of validation</b>	NA
<b>Findings</b>	NA
<b>Conclusion</b>	NA

**D.4. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from applied methodologies, standardized baselines, or other methodological regulatory documents**

<b>Means of validation</b>	DR, I
<b>Findings</b>	NA
<b>Conclusion</b>	<p>The subject PoA updates the methodology applied in the registered VPA-DD to GS4GG methodology from “The Gold Standard Simplified Methodology for Efficient Cookstoves, version 2.2” to “GS4GG Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC) V4.0.</p> <p><b>Applicability of methodology</b>  The PoA-DD /01/ specifies compliance of the Project Activity with applicability conditions of the applied baseline and monitoring methodology /B02/. It confirms that efficient improved cookstoves (ICS) reduce woody biomass use in rural households, reducing GHG emissions from thermal energy consumption, and thus satisfying all the relevant applicability criteria of the methodology TPDDTEC version 4.0/B02/. This was confirmed by reviewing the technical specifications of the stove models /09/ that will be installed under the Project Activity.</p> <p>PoA-DD has updated the eligibility criteria for VPAs to include the applicability of the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents as per the updated methodology. Section B.2 of the PoA-DD has included below regulatory documents as per the methodology and GS4GG requirements:</p> <p><b>Methodology applied:</b> Technologies and Practices to Displace Decentralized Thermal Energy Consumption” version 4.0, 07/10/2021  <b>Guideline:</b> Cookstove Usage Rate Monitoring Guideline version 2.0, 27/10/2020.  <b>Rule Update:</b> RULE UPDATE - fNRB application for GS4GG certification</p> <p>VVB confirmed CME has used latest versions of all the above mentioned documents. CME has already provided a double counting declaration stating that the PoA will not claim carbon credits under any other mitigation standards/04/ which is reviewed by the VVB and confirmed there is no double counting/ double claiming. A detailed assessment has conducted as oart of CL01 (refer Appendix 4). Therefore, validation team confirmed the compliance of the PoA with applied methodology and the Community Services Activity Requirements./B03-2/  Further VVB noted that as the scale has been changed it made the FAR raised from the design review not applicable.  The FAR states that “As per eligibility criteria 6, each VPA shall be limited to 10,000 tCO2e / annum. In case a VPA exceeds this threshold, the emission reduction from the VPA shall be capped at 10,000 tCO2e / annum thereby ensuring that it remains under the microscale threshold at all times. However, the CME shall take note of Paragraph 7.6.4 of Programme of Activity Requirements which requires that if the emission reductions or net removal volume achieved over consecutive 24 months period corresponds to scale that goes beyond the limit of applicable type, the scale should be moved to appropriate project scale applying design change requirements at the next issuance request or at the time on next renewal of crediting period. In the interim, the project can only be issued as per sub-para b above. VVB shall check this requirement at each verification to ensure that the volume of emission reductions are within the limits of micro-scale threshold”.</p> <p>However, The VVB would like to clarify that the PoA and the real-case VPA have undergone a design change involving a revision of the applied methodology from microscale <i>Simplified Methodology for Efficient Cookstoves, Ver 1.1</i> to large-scale</p>

	<p><i>Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC), Version 4.0.</i> Additionally, CME has changed the scale from microscale to large scale for PoA and its VPA through the consolidation of all 60 microscale VPAs into one large scale VPA, i.e, VPA 47.</p> <p>The VVB has assessed the Design Change and confirms that the updated design is fully aligned with GS4GG requirements. Consequently, the previously issued FARs are no longer applicable, as they pertained to microscale requirements.</p> <p>second FAR raised states <i>“PD shall demonstrate at the time of 1st verification that the traditional solid fuel stoves have 10% thermal efficiency and utilize fuelwood through tests or reliable source of information. If the 10% cannot be demonstrated, then the PD shall determine a new value which shall be applied by the VPAs and be fixed for the entire period. Verifying VVB shall check and validate the same.”</i></p> <p>VVB has reviewed the project documentation and confirms that the FAR was addressed and closed during the first periodic verification, as evidenced through the verification report for MP1. Under the current design change, the baseline stove efficiency has been conservatively set at 11.51%, which has been validated through CL 07 raised in the FVR, leading to a detailed review of the baseline WBT records.</p>
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#### D.5. Changes to the programme design

<b>Means of validation</b>	DR, I
<b>Findings</b>	NA
<b>Conclusion</b>	<p>The CME has revised the scale of the PoA from microscale to large-scale to allow for the aggregation of all VPAs into a real-case VPA. The VVB reviewed the proposed change and found it appropriate and consistently applied throughout the design document. The VVB also reviewed the email correspondence with the GS regarding this scale change/07/ and confirmed that the revision aligns with the GS4GG principles and requirements. Correspondingly, CME has removed eligibility criteria for capping annual emission reductions at 10000 tCO<sub>2</sub>e which was a requirement for microscale VPAs.</p> <p>VVB confirmed the change in scale is as per the GS4GG rules principles and requirements and Programme of Activity requirements/B03-03/.</p>

#### D.6. Addition of VPA inclusion template

<b>Means of validation</b>	DR, I
<b>Findings</b>	NA
<b>Conclusion</b>	<p>There no addition of VPA inclusion template in the revised PoA-DD. However, the eligibility Conditions for VPA corrected for including applicability of the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents as discussed in the above sections.</p> <p>As per the updated methodology, for inclusion of VPAs under the PoA, Compliance with the relevant applicability requirements of applied methodology shall be presented in the VPA-DD. VVB confirmed the correction is acceptable and in line with the applied methodology and Gs4GG requirements.</p>

**D.7. Change of coordinating/managing entity**

<b>Means of validation</b>	NA
<b>Findings</b>	NA
<b>Conclusion</b>	NA

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

<b>Means of validation</b>	NA
<b>Findings</b>	NA
<b>Conclusion</b>	NA

**SECTION E. Internal quality control**

>> The final verification report passed a technical review. A technical reviewer qualified in accordance with the Carbon Check's qualification scheme for GS validation and verification has performed the technical review.

**SECTION F. Validation opinion**

>>

The CME has appointed Carbon Check (India) Private Ltd., (Carbon Check) to perform the validation of the following Post Registration Changes to the included in the registered PoA "GHG Emission Reduction through use of Bondhu Chula (Improved Cook Stoves) in Bangladesh" /06/:

**Corrections**

The validation team confirms that the corrections made do not change the project description or design or reduce the level of accuracy of the monitoring compared with the requirements contained in the PoA-DD /B01/. The proposed corrections in the revised PoA-DD/01/ are accurate reflection of the actual information.

The version of the template for PoA-DD was the latest version of the template /B03-5/. This changes were assessed to confirm the compliance of PoA-DD completing guidelines and Carbon Check confirms that the revised PoA-DD /01/, as provided by the CME, complies with the filling instructions of the PoA Design Document /B03-5/. Carbon Check confirms the following:

- a) The compliance of the revised PoA-DD /01/ (both in tracked-change and clean versions) with the valid version of the applicable PoA Design Document /B03-5/ and the instructions therein for filling out the form.
- b) Since the CME has used the latest version of the PoA Design Document /B03-5/, assessment team confirms that the information transferred to the latest version of the PoA-DD /01/ is materially the same as that in the included VPA-DD /B01/.

The validation team can confirm that the post registration changes carried out to PoA-DD /01/ are in accordance with the requirements of GS4GG. The DOE therefore accepts the changes and request for the approval of corrections.

Abbreviations	Full texts
BE	Baseline Emission
CAR	Corrective Action Request
Carbon Check	Carbon Check (India) Private Ltd.
CER	Certified Emission Reduction
CL	Clarification Request
CME	Co-ordinating or Managing Entity
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
DR	Document Review
EB	Executive Board
ER	Emission Reduction
FAR	Forward Action Request
GHG	Greenhouse Gas
GS4GG	Gold Standard for Global goals
I	Interview
MP	Monitoirng Period
NA	Not Applicable
OSV	On-Site Visit
PE	Project Emission
PoA	Programme of Activities
PoA-DD	Programme of Activities design document
SDG	Sustainable Development Goal
t	Tonne
UNFCCC	United Nations Framework Convention on Climate Change
VPA	Voluntary Project Activity
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

**Appendix 2. Competence of team members and technical reviewer**



**Carbon Check (India) Private Limited**

*Certificate of Competency*

**Mr. Manas Halder**

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

*for the following functions and requirements:*

<input checked="" type="checkbox"/> Validator	<input checked="" type="checkbox"/> Verifier	<input checked="" type="checkbox"/> Team Leader	<input checked="" type="checkbox"/> Technical Expert
<input type="checkbox"/> Technical Reviewer	<input type="checkbox"/> Validator/Verifier (Trainee)	<input type="checkbox"/> Gender Expert	<input type="checkbox"/> Plastic Waste Expert
<input type="checkbox"/> CCB Expert	<input type="checkbox"/> Legal Expert	<input type="checkbox"/> Financial Expert	<input type="checkbox"/> Environmental, Health and Safety financial matters
<input type="checkbox"/> SDG Expert	<input type="checkbox"/> Expert Social aspect	<input type="checkbox"/> Expert Environmental Aspect	<input type="checkbox"/> Health Expert
<input checked="" type="checkbox"/> Regional Expert for India and Bangladesh	<input checked="" type="checkbox"/> FOEN Approved Technical Expert	<input type="checkbox"/> FOEN Approved Quality officer	

*in the following Technical Areas:*

<input type="checkbox"/> TA 1.1	<input checked="" type="checkbox"/> TA 1.2	<input type="checkbox"/> TA 2.1	<input checked="" type="checkbox"/> TA 3.1	<input type="checkbox"/> TA 4.1
<input type="checkbox"/> TA 4. n	<input type="checkbox"/> TA 5.1	<input type="checkbox"/> TA 5.2	<input type="checkbox"/> TA 7.1	<input type="checkbox"/> TA 8.1
<input type="checkbox"/> TA 9.1	<input type="checkbox"/> TA 9.2	<input type="checkbox"/> TA 10.1	<input checked="" type="checkbox"/> TA 13.1	<input type="checkbox"/> TA 13.2
<input type="checkbox"/> TA 14.1	<input type="checkbox"/> TA 15.1	<input type="checkbox"/> TA 16.1		

Issue Date	Expiry Date
06 <sup>th</sup> February 2025	31 <sup>st</sup> December 2025



Mr. Vikash Kumar Singh  
Director - Compliance

Revision History of the document:

Revision Date	Summary of changes
Jan 2025 <sup>1</sup>	Revised as per latest organogram
Feb 2025	Revised to include FOEN requirements

CCIPL\_FM 7.9 Certificate of Competency\_V8.0\_05022025  
<sup>1</sup> Please refer to previous version of FM 7.9 for the revision history



## Carbon Check (India) Private Limited

### Certificate of Competency

**Ms. Indumathi C**

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS, A 6.4 AS/ ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

- |  |  |  |   |
|--|--|--|---|
| <input checked="" type="checkbox"/> Validator                              | <input checked="" type="checkbox"/> Verifier             | <input checked="" type="checkbox"/> Team Leader                    | <input checked="" type="checkbox"/> Technical Expert                        |
| <input checked="" type="checkbox"/> Technical Reviewer                     | <input type="checkbox"/> Validator/Verifier (Trainee)    | <input type="checkbox"/> Gender Expert                             | <input checked="" type="checkbox"/> Plastic Waste Expert                    |
| <input type="checkbox"/> CCB Expert  | <input type="checkbox"/> Legal Expert                    | <input checked="" type="checkbox"/> Financial Expert               | <input type="checkbox"/> Environmental, Health and Safety financial matters |
| <input checked="" type="checkbox"/> SDG Expert                             | <input checked="" type="checkbox"/> Expert Social aspect | <input checked="" type="checkbox"/> Expert Environmental Aspect    | <input type="checkbox"/> Health Expert                                      |
| <input checked="" type="checkbox"/> Regional Expert for India and Srilanka |  | <input checked="" type="checkbox"/> FOEN Approved Technical Expert | <input type="checkbox"/> FOEN Approved Quality officer                      |

in the following Technical Areas:

- |  |  |                                  |   |   |
|--|--|----------------------------------|---|---|
| <input checked="" type="checkbox"/> TA 1.1 | <input checked="" type="checkbox"/> TA 1.2 | <input type="checkbox"/> TA 2.1  | <input checked="" type="checkbox"/> TA 3.1  | <input type="checkbox"/> TA 4.1             |
| <input type="checkbox"/> TA 4. n           | <input type="checkbox"/> TA 5.1            | <input type="checkbox"/> TA 5.2  | <input type="checkbox"/> TA 7.1             | <input type="checkbox"/> TA 8.1             |
| <input type="checkbox"/> TA 9.1            | <input type="checkbox"/> TA 9.2            | <input type="checkbox"/> TA 10.1 | <input checked="" type="checkbox"/> TA 13.1 | <input checked="" type="checkbox"/> TA 13.2 |
| <input type="checkbox"/> TA 14.1           | <input type="checkbox"/> TA 15.1           | <input type="checkbox"/> TA 16.1 |   |   |

Issue Date

06<sup>th</sup> February 2025

Expiry Date

31<sup>st</sup> December 2025



Mr. Vikash Kumar Singh  
Director - Compliance

Revision History of the document:

Revision Date	Summary of changes
Jan 2025 <sup>1</sup>	Revised as per latest organogram
Feb 2025	Revised to include FOEN requirements

CC IPL\_FM 7.9 Certificate of Competency\_V8.0\_05022025

<sup>1</sup> Please refer to previous version of FM 7.9 for the revision history

**Appendix 3. Documents reviewed or referenced**

No.	Author	Title	References to the document
/01/	CME	Revised PoA-DD	Version 4, dated 25/08/2025  Version 05.0 ; Dated: 06/10/2025  Version 6.0 ; Dated: 08/12/2025
/02/	CME	Signed cover letter	03/08/2022
/03/	CME	CME registration certificate	2015
/04/	CME	Declaration from CME on double claiming.	09/05/2022
/05/	CME	Declaration by the CME relating to non-involvement of ODA	03/08/2022
/06/	Carbon Check, CME	LOE between Carbon Check and CME	22/08/2025
/07/	CME	Email approval from GS on subsuming other 60 microscale VPAs registered in the PoA to VPA 47	07/05/2025
/08/	Carbon Check	On-site visit & interview notes	21/09/2025
/09/	CME	Specifications of stoves	17/11/2016
/B01/	GS	Registered GS PoA-DD, Version 3	<a href="https://www.goldstandard.org/">https://www.goldstandard.org/</a>
/B02/	GS	GS Technologies and Practices to Displace Decentralized Thermal Energy Consumption (TPDDTEC) v 4.0	<a href="https://www.goldstandard.org/">https://www.goldstandard.org/</a>
/B03/	GS	<ol style="list-style-type: none"> <li>1. Design Change Requirements (version 1.1)</li> <li>2. Community Services Activity Requirements (version 1.2)</li> <li>3. Programme of Activity Requirements (version 3.0)</li> <li>4. GS4GG Validation and Verification Standard (Version 2.0)</li> <li>5. PoA Design Document (Version 2.2)</li> </ol>	<a href="https://www.goldstandard.org/">https://www.goldstandard.org/</a>

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

**Table 1: CLs from this Validation**

CL ID	01	Section no.	-	Date:	19/09/2025
<b>Description of CL</b>					
<p>The validation team has noticed that there are some other GS PoAs and the VPAs under PP in the same project boundary with similar technology, for instance GS11570 and GS10833. The CME of the subject project (BBF) is involved as VPA implementer for the GS11570, while for GS10833, although BBF is not a project participant, but the program involves similar ICS (Bondhu Chula).</p> <p>CME is requested to clarify how the risk of double counting is avoided between the projects with credible evidence.</p>					
<b>CME's response</b>					Date: 06/10/2025
<p>A review of Various registry(ies) revealed the following clean cooking PoAs/ CPAs / VPAs / Projects registered in Bangladesh as at date, along with their technology / measure or service level / level of output:</p>					
Stand ar d	Type	Reference ID	Title	Technology	Similar technology compared to GS PoA 3112
CDM	PoA	10512	IDCOL Improved Cook Stove Program	Similar to Bondhu Chulha	Yes
CDM	CPA	10512-P1-0001-CP1	IDCOL Improved Cook Stove Program – CPA 01		
CDM	PoA	4791	Improved Cooking Stoves in Bangladesh	Bondhu Chulha	Yes
CDM	CPA	4791-P1-0001-CP1	Improved Cooking Stoves in Bangladesh – CPA No.001: Grameen Shakti		
CDM	CPA	4791-P1-0002-CP1	Improved Cooking Stoves in Bangladesh – CPA No.02 "Grameen Shakti"		
CDM	CPA	4791-P1-0003-CP1	Improved Cooking Stoves in Bangladesh – CPA No.03 "Grameen Shakti"		
CDM	CPA	4791-P1-0004-CP1	Improved Cooking Stoves in Bangladesh – CPA No.04 "Grameen Shakti"		
CDM	CPA	4791-P1-0005-CP1	Improved Cooking Stoves in Bangladesh – CPA No.05 "Grameen Shakti"		
CDM	CPA	4791-P1-0006-CP1	Improved Cooking Stoves in Bangladesh – CPA No.06 "Grameen Shakti"		
CDM	CPA	4791-P1-0007-CP1	Improved Cooking Stoves in Bangladesh – CPA No.07 "Grameen Shakti"		
CDM	CPA	4791-P1-0008-CP1	Improved Cooking Stoves in Bangladesh – CPA No.08 "Grameen Shakti"		

CDM	CPA	4791-P1-0009-CP1	Improved Cooking Stoves in Bangladesh – CPA No.09 "Grameen Shakti"		
CDM	CPA	4791-P1-0010-CP1	Improved Cooking Stoves in Bangladesh – CPA No.10 "Grameen Shakti"		
CDM	CPA	4791-P1-0011-CP1	Improved Cooking Stoves in Bangladesh – CPA No.11 "Grameen Shakti"		
CDM	CPA	4791-P1-0012-CP1	Improved Cooking Stoves in Bangladesh – CPA No.12 "SZ Consultancy Services Ltd."		
CDM	CPA	4791-P1-0013-CP1	Improved Cooking Stoves in Bangladesh – CPA No.13 "SZ Consultancy Services Ltd."		
CDM	CPA	4791-P1-0014-CP1	Improved Cooking Stoves in Bangladesh – CPA No.14 "SZ Consultancy Services Ltd."		
CDM	CPA	4791-P1-0015-CP1	Improved Cooking Stoves in Bangladesh – CPA No.15 "SZ Consultancy Services Ltd."		
CDM	CPA	4791-P1-0016-CP1	Improved Cooking Stoves in Bangladesh – CPA No.16 "SZ Consultancy Services Ltd."		
CDM	CPA	4791-P1-0017-CP1	Improved Cooking Stoves in Bangladesh – CPA No.17 "SZ Consultancy Services Ltd."		
CDM	CPA	4791-P1-0018-CP1	Improved Cooking Stoves in Bangladesh – CPA No.18 "SZ Consultancy Services Ltd."		
CDM	CPA	4791-P1-0019-CP1	Improved Cooking Stoves in Bangladesh – CPA No.19 "SZ Consultancy Services Ltd."		
CDM	PoA	10431	Improved cookstove program in Bangladesh supported by the Republic of Korea		
CDM	CPA	10431-P1-0001-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 01		
CDM	CPA	10431-P1-0002-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 02	Bondhu Chulha	Yes
CDM	CPA	10431-P1-0003-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 03		
CDM	CPA	10431-P1-0004-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 04		
CDM	CPA	10431-P1-0005-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 05		
GS	Project	12114	Clean Cooking Project for Refugees Host Communities and Other Marginalised Communities in Bangladesh	Shashroyi Rocket Stove	No
GS	Project	11817	PoA GS11815- Electric Cooking Program by ATEC - Electric Cooking	Electric Stove	No

Program in Bangladesh by ATEC-VPA02					
GS	PoA	11570	Improved cookstove program in Bangladesh supported by the Republic of Korea	same as CDM PoA 10431	Transitioned from CDM to GS, already discussed above, under CDM
GS	CPA	11572	Improved cookstove program in Bangladesh supported by the Republic of Korea-CPA 03	same as CDM CPA 10431-P1-0002-CP1	
GS	CPA	11571	Improved cookstove program in Bangladesh supported by the Republic of Korea-CPA 02	same as CDM CPA 10431-P1-0003-CP1	
GS	CPA	11488	Improved Cooking Stoves in Bangladesh CPA No.20 SZ Consultancy Services Ltd.	Bondhu Chulha - Commercial	No
GS	CPA	10982	Improved Cooking Stoves in Bangladesh CPA No.19 SZ Consultancy Services Ltd.	same as CDM CPA 4791-P1-0012-CP1	Transitioned from CDM to GS, already discussed above, under CDM
GS	CPA	10981	Improved Cooking Stoves in Bangladesh CPA No.18 SZ Consultancy Services Ltd.	same as CDM CPA 4791-P1-0013-CP1	
GS	CPA	10980	Improved Cooking Stoves in Bangladesh CPA No.17 SZ Consultancy Services Ltd.	same as CDM CPA 4791-P1-0014-CP1	
GS	CPA	10979	Improved Cooking Stoves in Bangladesh CPA No.16 SZ Consultancy Services Ltd.	same as CDM CPA 4791-P1-0015-CP1	
GS	CPA	10978	Improved Cooking Stoves in Bangladesh CPA No.15 SZ Consultancy Services Ltd.	same as CDM CPA 4791-P1-0016-CP1	
GS	CPA	10977	Improved Cooking Stoves in Bangladesh CPA No.14 SZ Consultancy Services Ltd.	same as CDM CPA 4791-P1-0017-CP1	
GS	CPA	10976	Improved Cooking Stoves in Bangladesh CPA No.13 SZ Consultancy Services Ltd.	same as CDM CPA 4791-P1-0018-CP1	
GS	CPA	10974	Improved Cooking Stoves in Bangladesh CPA No.12 SZ Consultancy Services Ltd.	same as CDM PoA 4791-P1-0019-CP1	
GS	PoA	10833	Improved Cooking Stoves in Bangladesh	same as CDM PoA 4791	
GS	PoA	7443	Carbon Emission Reduction Program through CCDB Improved Cook Stove (ICS) in Bangladesh	The Banglar Unan stove	
GS	CPA	7444	Carbon Emission Reduction Program through CCDB Improved Cook Stove	The Banglar Unan stove	No, different technology /

			(ICS) in Bangladesh VPA 1 Patharghata and Morrelganj 1		service level / level of output
VCS	Project	3144	Bangladesh Apon Chula Improved Cookstove Program I	Apon Chulha	No, different technology / service level / level of output
VCS	Project	3168	Bangladesh Apon Chula Improved Cookstove Program II	Apon Chulha	No, different technology / service level / level of output
VCS	Project	4312	Installation of high efficiency wood burning cookstoves in Bangladesh	Multiple stoves models	No, different technology / service level / level of output
A6.4	PoA	10431	Improved cookstove program in Bangladesh supported by the Republic of Korea	same as CDM PoA 10431	Transitioned from CDM to A6.4, already discussed above, under CDM
A6.4	CPA	10431-P1-0001-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 01	same as CDM CPA 10431-P1-0001-CP1	
A6.4	CPA	10431-P1-0002-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 02	same as CDM CPA 10431-P1-0002-CP1	
A6.4	CPA	10431-P1-0003-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 03	same as CDM CPA 10431-P1-0003-CP1	
A6.4	CPA	10431-P1-0004-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 04	same as CDM CPA 10431-P1-0004-CP1	
A6.4	CPA	10431-P1-0005-CP1	Improved cookstove program in Bangladesh supported by the Republic of Korea – CPA 05	same as CDM CPA 10431-P1-0005-CP1	

As per above list, the following PoA (and their VPAs) / projects have similar technology measure as compared to GS 3112 (and its VPAs):

Standard	Type	Reference ID	Title
CDM	PoA	10512	IDCOL Improved Cook Stove Program
CDM	PoA	4791	Improved Cooking Stoves in Bangladesh
CDM	PoA	10431	Improved cookstove program in Bangladesh supported by the Republic of Korea

It is hereby confirmed that the GS PoA 3112 (or any of its associated VPAs) do not lead to the discontinuation or modification of the former projects and does not include any risk of double counting of ERs / impacts or mis-estimation, by virtue of the following:

- The ICS units under the GS PoA 3112 (and its VPAs) are unique to this PoA and are not included in any of the aforesaid PoAs / projects.
- Each ICS unit under the GS PoA 3112 (and its VPAs) is identifiable via a unique serial number (ID). Further the ICSs under GS 3112 are fixed and cannot change their location. The ICS installation database under GS PoA 3112, lists each ICS with its unique serial ID, corresponding end-user name, address/location and date of

installation / distribution, thus, making it uniquely and singularly assigned to this PoA alone. The GS PoA 3112 (and its VPAs) does not utilize any assets of former PoA / projects

### Documentation provided by CME

**VVB assessment** **Date:** 14/10/2025

VVB has reviewed the Projects registered in different GHG standards along with the information gathered during onsite visit on unique serial number, database and the design of stove, confirmed there is no double counting for either PoA or project activities eligible under this PoA among other mitigation actions. Hence CL01 is closed.

<b>CL ID</b>	02	<b>Section no.</b>	E.1	<b>Date:</b> 19/09/2025
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### Description of CL

In section E.1 of the PoA-DD, under ‘summary of stakeholder consultation at PoA level’ is marked as “not applicable”; however, immediately after this statement, it also stated, “the stakeholder consultations will be conducted at both PoA (already conducted on 26 February 2014) and VPA level (for future VPAs)”. These two parts of the statement seem confusing. Hence, CME is requested to provide more clarity on this.

**CME’s response** **Date:** 06/10/2025

The statement in the PoA-DD section E.1 has been revised.

### Documentation provided by CME

3112\_POA-DD ver 5.0 06102025

**VVB assessment** **Date:** 14/10/2025

VVB has reviewed the revised PoA-DD and confirmed the information provided in the subject section is corrected and is appropriate. Hence CL02 is closed.

<b>CL ID</b>	03	<b>Section no.</b>	E.3/Appendix 1	<b>Date:</b> 19/09/2025
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### Description of CL

CME’s office address is inconsistent between section E.3 and Appendix 1. CME is requested to clarify on this and ensure that all affected stakeholders are intimated if any change of office address has occurred after the stakeholder consultation and/or commissioning of project ICS as part of the continuous grievance mechanism.

**CME’s response** **Date:** 06/10/2025

The address has been made consistent between Section E.3 and Appendix 1. The grievance mechanism established under the PoA involves multiple means to raise grievance by stakeholders and the office address is not a singular provision for the same. The beneficiaries have an option to reach to the nearest partner organization (Sanitary shop owner), or the BBF District sales manager and Assistant district manager to whom they may call and lodge their grievances. Further, the address of the BBF has already been updated on the BBF’s website for universal access. Thus, no further action is deemed required in this regard.

### Documentation provided by CME

3112\_POA-DD ver 5.0 06102025

**VVB assessment** **Date:** 14/10/2025

VVB has reviewed the revised PoA-DD and confirmed the office address is consistent throughout the PoA-DD. Therefore, CL03 is closed.

**Table 2. CARs from this Validation**

<b>CAR ID</b>	01	<b>Section no.</b>	KPI	<b>Date:</b> 19/09/2025
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### Description of CAR

In the key project information section of the PoA-DD, in the table for list of all real case VPAs in the PoA, the ID and the title of the listed real case VPA are inconsistent. CME is requested to clarify on this discrepancy and rectify as required.

**CME’s response** **Date:** 06/10/2025

The GS ID of the VPA has been revised in KPI section of the PoA-DD

### Documentation provided by CME

3112\_POA-DD ver 5.0 06102025

**VVB assessment** **Date:** 14/10/2025

VVB reviewed the revised PoA-DD and confirmed the VPA ID is appropriate and consistent with the name of VPA provided and the Information on Gold Standard registry. Therefore, CAR 01 is closed

<b>CAR ID</b>	02	<b>Section no.</b>	D.2	<b>Date:</b> 19/09/2025
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<b>Description of CAR</b>	
CME has applied a duration of PoA of 28 years, which does not comply with GS Programme of Activity Requirement, which states the maximum PoA duration shall be 20 years. CME is requested to comply with the GS requirements.	
<b>CME's response</b>	<b>Date: 06/10/2025</b>
As per footnote 36 under para 8.9.3 of the Programme of Activity Requirements and Procedures, Version 3.0, "The maximum total duration of the Transitioning PoA shall be 28 years, as envisaged at the time of registration under an earlier version of the Gold Standard." The PoA was registered under GS v1.1 originally with a 28 year (7 * 4 year) of crediting period and then transitioned to GS4GG. Hence, the duration of the PoA shall remain unchanged and has been reported as 28 years in section D.2 of the PoA-DD. Please note that although the PoA crediting period has been considered as 28 years, section E.2 of the PoA-DD explicitly mentions the PoA CP renewal cycle length of 5 years. No action is thus needed in this regard.	
<b>Documentation provided by CME</b>	
3112_POA-DD ver 5.0 06102025	
<b>VVB assessment</b>	<b>Date: 14/10/2025</b>
The VVB has reviewed the CME's clarification and the referenced Programme of Activity Requirements and Procedures, Version 3.0, paragraph 8.9.3, footnote 36. The PoA was originally registered under GS v1.1 with a total duration of 28 years and has subsequently transitioned to GS4GG. Based on this provision, the applied duration of 28 years is consistent with the transitional allowance provided for previously registered PoAs. Therefore, the VVB considers the CME's explanation acceptable, and CAR 02 is closed.	

<b>CAR ID</b>	03	<b>Section no.</b>	Appendix 4	<b>Date:</b> 19/09/2025
<b>Description of CAR</b>				
In Appendix 4 of the VPA-DD, under section A4.1: Details of proposed or actual design change, CME is required to mention all major changes from the actual design.				
<b>CME's response</b>				<b>Date: 06/10/2025</b>
All major changes made in the PoA-DD are now specified in Appendix 4, section A4.1				
<b>Documentation provided by CME</b>				
3112_POA-DD ver 5.0 06102025				
<b>VVB assessment</b>				<b>Date : 14/10/2025</b>
VVB has reviewed the revised PoA-DD and confirmed the appendix 2 has been corrected to include all major design changes according to this PRC validation. Therefore, CAR 03 is closed.				

**Table 3. FARs from this Validation**

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