

GOLD STANDARD FOR THE GLOBAL GOALS (GS4GG)

VALIDATION REPORT

Renewal of the Crediting Period for Programme of Activities

INTERNATIONAL WATER PURIFICATION PROGRAMME

GS ID No.: GS 2404

Report No.:CTINB-2022-0401-1

Report Date: 16/06/2022




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I. Project description:

PoA title:	International Water Purification Programme	
GS ID	2404	
Report No.:	CTINB-2022-0401-1	
Date of first issue:	10/06/2022	
Current revision No.:	2.0	
Date of current revision:	16/06/2022	
Methodology:	AMS-III.AV. Version 05.0 Low greenhouse gas emitting safe drinking water production systems	<input type="checkbox"/> Large Scale <input checked="" type="checkbox"/> Small Scale
Tools, Principles and Requirements:	GS4GG Programme of Activity requirements and procedures, Version 2.0; GS4GG Principles & Requirements, Version 1.2; GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2; Gold Standard for the Global Goals Requirements & Guidelines for Transition of Projects from Previous Versions of the Standard, Version 2.0; SDG Impact Tool, Version 2.0 Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period, Version 03.0.1; GS4GG Site Visit and Remote Audit Requirements and Procedures, Version 1.0 Sampling-Standard, "Sampling and surveys for CDM project activities and programmes of activities", Version 07.0 Sampling-Guideline "Sampling and surveys for CDM project activities and programmes of activities", Version 04.0 Methodology "Low greenhouse gas emitting safe drinking water production systems" AMS-III.AV. Version 05.0 TOOL30 "Methodological tool: Calculation of the fraction of non-renewable biomass", Version 03.0	
Scope:	Sectoral Scope 3: Energy demand	
GS4GG PoA-DD Version and Date:	Version 02 dated 14/06/2022	
Activity Requirements applied	<input checked="" type="checkbox"/> Community Services Activities <input type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities <input type="checkbox"/> N/A	
GHG reducing measure/technology:	Water purification	
Coordinating/managing entity	Pure Water Ltd.	
Project Participants and any communities involved	Swiss Carbon Assets Ltd.	
Host Country (ies)	Cambodia Chile Egypt El Salvador Ethiopia Gambia Iran	

	Kenya Madagascar Malawi Mexico Nicaragua South Africa Uganda Vietnam
Selected Sustainable Development Goals (SDGs):	3; 6; 13
Estimated impact:	SDG 3: Percentage of households reporting reduction in smoke exposure and/or in waterborne diseases SDG 6: Number of people who have access to clean drinking water SDG 13: Calculated in CPA-DDs
Name, position and signature of the approver of the validation and certification report:	 Liu Jia Technical Reviewer/Approver

II. Validation Team:

Validation Team		Role									
Full name	Appointed for Sectoral Scopes (Technical Areas)	Team leader	Acting Team Leader	Local Expert	Team Member (Auditor)	Technical Expert	Acting Tech. Expert	Trainee Auditor	Technical Reviewer	Expert to TR	Trainee TR
		Wang Guolian	1.2, 3.1, 4.1, 5.1, 5.2, 11.1, 11.2, 12.1	x			x	x			
Liu Jia	1.2, 3.1								x	x	
Sandra Manana	-			x							

ABBREVIATIONS

CDM	Clean Development Mechanism
CME	Coordinating/managing entity
CER	Certified Emission Reduction
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CPA	Component Project Activity
DD	Design Document
EB	Executive Board
GHG	Greenhouse gas(es)
GS	Gold Standard
GS4GG	Gold Standard for the Global Goals
GS-VERs	Gold Standard Voluntary Emission Reductions
GS-TAC	Gold Standard Technical Advisory Committee
GSP	Global Stakeholder Consultation Process
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-governmental Organization
ODA	Official Development Assistance
PCP	Project Cycle Procedure
PoA	Programme of Activity
PP	Project Participant
UNFCCC	United Nations Framework Convention on Climate Change
VPA	Voluntary Project Activity

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REVIEWED DOCUMENTATION

The following table outlines the documentation reviewed during the validation:

- /1/ GS4GG PoA-DD for renewal of 2nd crediting period, Version 02 dated 14/06/2022
- /2/ Emission reductions calculation spreadsheet
- /3/ fNRB Calculation spreadsheet
- /4/ Dispenser Database
- /5/ Baseline survey statistics
- /6/ Approved revised CDM PoA-DD for the 1st crediting period, Version 2.1, dated 20/06/2019
- /7/ CDM Validation report for the PoA of 1st crediting period, Version 12, dated 16/11/2012
- /8/ The approved consolidated baseline and monitoring methodology AMS-III.AV. Version 05.0 "Low greenhouse gas emitting safe drinking water production systems"
- /9/ CDM project standard for PoA, Version 03.0
- /10/ CDM project cycle procedure for PoA, Version 03.0
- /11/ CDM validation and verification standard for, PoA Version 03.0
- /12/ GS4GG Programme of Activity requirements and procedures, Version 2.0
- /13/ GS4GG Principles & Requirements, Version 1.2
- /14/ GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2
- /15/ Gold Standard for the Global Goals Requirements & Guidelines for Transition of Projects from Previous Versions of the Standard, Version 2.0
- /16/ GS procedure "Site Visit and Remote Audit Requirements and Procedures", Version 1.0
- /17/ CDM Sampling-Standard, "Sampling and surveys for CDM project activities and programmes of activities", Version 07.0
- /18/ CDM Sampling-Guideline "Sampling and surveys for CDM project activities and programmes of activities", Version 04.0
- /19/ CDM Methodology "Switch from Non-Renewable biomass for thermal applications by the user", AMS-I.E. version 08.0
- /20/ CDM TOOL30 "Methodological tool: Calculation of the fraction of non-renewable biomass", Version 03.0
- /21/ Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period, Version 03.0.1
- /22/ SDG Impact Tool, Version 2.0

1 Introduction

1.1 Objective

The validation for renewal of the crediting period serves as assessment of validity of the baseline of programme of activity (PoA) that has opted for renewal of the crediting period. The validation is an independent 3rd party assessment of the project baseline. In particular, the project's baseline and the monitoring plan are validated in order to confirm that the project baseline, as documented, is sound and reasonable and meet the stated requirements and identified criteria. Assessment of validation of baseline is a requirement for all Gold Standard projects seeking for renewal of the crediting period and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified emission reductions (VERs).

For projects transit from previous versions of the Standard to Gold Standard for the Global Goals (GS4GG), the validation for renewal of the crediting period also serves as assessment on updated Safeguarding Principles, updated SDG contribution, any updates to monitoring plan, updated baseline information and other relevant documents under GS4GG.

Gold Standard criteria refer to the Kyoto Protocol criteria and the CDM rules and Modalities and related decisions by the COP/MOP and the CDM Executive Board.

1.2 Scope

As per para. 4.2 of Gold Standard for the Global Goals Requirements & Guidelines for Transition of Projects from Previous Versions of the Standard Version 2.0 published on 16/08/2021, transition projects during the renewal of crediting period shall submit entire project information in new templates issued by VVB for review. The documents shall essentially contain information on updated Safeguarding Principles assessment, updated SDG contribution assessment, any updates to monitoring plan, updated baseline information, demonstration of OFN, compliance to latest version of applied methodology etc. If project is looking to stack new Impact Statement and/or Products over GSCERs the required information to demonstrate compliance to the relevant methodology, product specification and additionality shall also be presented.

As per para. 8.9.7 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Design Certification Renewal follows the same process as Validation/ inclusion and Design Review (Design Certification) though the scope of assessment is limited to:

- a. Changes in the PoA/VPAs as related to the General Eligibility Criteria
- b. Incorporation of any relevant updates to the Gold Standard Requirements
- c. Re-definition of baseline scenario and any impact of change on the eligibility principles, criteria and requirements
- d. Any Gold Standard activity, product and methodology-specific requirements
- e. Demonstration of Ongoing Financial Need, where relevant – see Ongoing Financial Need.

Based on the above GS rules and requirements, the validation scope is defined as an independent and objective review of the GS4GG PoA-DD, the project's baseline study, updated baseline information, the updated Safeguarding Principles, updated SDG contribution, any updates to monitoring plan, demonstration of OFN compliance to latest version of applied methodology and other relevant documents. The information in these documents is reviewed against GS4GG Programme of Activity requirements and procedures, Version 2.0, GS4GG Principles & Requirements, Version 1.2, GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2, Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

CTI validation team has employed a risk-based and step-wise approach when conducting the validation, focusing on the identification of significant risks for project implementation and the generation of Gold Standard emission reductions.

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

2 Validation Method

2.1 Appointment of validation team

The validation was conducted by a validation team which was designated by CTI in accordance with its internal procedures. The competence and impartiality of CTI validation team are the key elements that have been taken into account by CTI when appointing CTI validation team. The details of CTI validation team are as follows:

Validation Team		Role									
Full name	Appointed for Sectoral Scopes (Technical Areas)	Team leader	Acting Team Leader	Local Expert	Team Member (Auditor)	Technical Expert	Acting Tech. Expert	Trainee Auditor	Technical Reviewer	Expert to TR	Trainee TR
Wang Guolian	1.2, 3.1, 4.1, 5.1, 5.2, 11.1, 11.2, 12.1	x			x	x					
Liu Jia	1.2, 3.1								x	x	
Sandra Manana	-			x							

Collectively, the above validation team is competent for conducting the validation and the impartiality is well guaranteed. Meanwhile, the Certificates of Competence for validators and experts of CTI validation team are enclosed in Appendix B to this report.

2.2 Desk review

The validation is performed primarily as a document review as below:

The Gold Standard GS PoA-DD and additional background documents related to the project design and baseline, i.e., country area laws, GS4GG Programme of Activity requirements and procedures, Version 2.0, GS4GG Principles & Requirements, Version 1.2, Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period, Version 03.0.1, approved methodology – AMS-III.AV. Version 05.0 Low greenhouse gas emitting safe drinking water production systems, CDM project standard for programme of activities (PS Version 03.0), CDM project cycle procedure for programme of activities (PCP Version 03.0), CDM validation and verification standard for programme of activities (VVS Version 03.0), Glossary of CDM terms and Kyoto Protocol were reviewed.

During the desk-review phase, the relevant documents include the registered CDM PoA-DD and the corresponding validation report, updated GS PoA-DD for renewal of 2nd crediting period and other relevant background documents were submitted and assessed.

All reviewed documents and information sources used during desk review are listed in Appendix B to this report.

2.3 FOLLOW-UP site/remote visit and interviews with project stakeholders

CTI validation team from Shenzhen CTI International Certification Co., Ltd (CTI) applies standard auditing techniques to assess the renewal of crediting period of the International Water Purification Programme. Because of COVID-19 pandemic, it is impossible for the VVB to conduct the physical site visit. According to the GS “Site Visit and Remote Audit Requirements and Procedures” Version 1.0, remote audit techniques offer an alternative means to physical visit and demonstration of evidence. CTI decided to conduct the validation remotely according to this GS “Site Visit and Remote Audit Requirements and Procedures” Version 1.0:

- a) Since the audit activities involve the validation of renewal of crediting period, a physical site visit by VVB is not mandatory.
- b) Remote audit is viable for this project where a physical audit is not mandatory. CTI conducted the risk assessment applying qualification criteria described in ANNEX 1 - RISK ASSESSMENT GUIDELINES of the GS “Site Visit and Remote Audit Requirements and Procedures” Version 1.0, and any additional qualification criteria that CTI finds appropriate for decision making. CTI made the decision of remote audit which was not influenced by the project developer in this regard.

Remote audit performed by the validation team does not mean reduced audit requirements or audit quality or increased audit cost, while the objective is to make the audit process more effective and efficient, and ensuring and enhancing the integrity of the audit process and the VVB opinion.

From 24/05/2022 to 31/05/2022, CTI validation team performed remote inspection, by the remote audit techniques including video calls, video recordings, geolocation data and geoinformation systems, etc., which is listed in the following table of ANNEX 1 - RISK ASSESSMENT GUIDELINES of the GS “Site Visit and Remote Audit Requirements and Procedures” Version 1.0:

AUDITING TECHNIQUES REPORT							
For Design Certification and Design Certification Renewal							
Scope of assessment	Auditing technique(s) used ^[1]	Has the audit technique(s) been sufficient to validate the aspect? ^[2]	Risk(s) identified ^[3]	Auditing tools used as a part of mitigation of identified risks ^[4]	Findings raised ^[5] (if applicable)	Conclusion	Reference to the key evidence supporting the Conclusion
Purpose and general description of project	document review/video recordings	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Eligibility of the project under Gold Standard	document review/video recordings	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project	document review/video recordings	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period, related agreements
Location of project	document review/geolocation data	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Technologies and/or measures	document review/video recordings	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Scale of the project	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Funding sources of project	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
APPLICATION OF APPROVED GOLD STANDARD METHODOLOGY (IES) AND/OR DEMONSTRATION OF SDG CONTRIBUTIONS							
Applicability of methodology (ies)							
Prior to the implementation of the project activity, a public distribution network supplying safe drinking water (SDW) to the project boundary does not exist.	document review/interviews	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period, interviews with officials, end-users, NGOs, or local experts or published reports, maps, pictures, official documents
The application of the project technology/equipment achieves compliance either with: (i) the "interim" performance target as per "Evaluating household water treatment options: Health based targets and microbiological performance specifications" (WHO, 2011); or (ii) an applicable national standard or guideline.	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
In cases where the life span of the water treatment technologies is shorter than the crediting period of the project activity, there shall be documented measures in place to ensure that end users have access to replacement purification systems of comparable quality.	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period Repair and replacement of the dispensers will be documented
It should be demonstrated that the maintenance of the project appliances is implemented in accordance with manufacturer's specifications/ recommendations, including any provisions in regard to replacement or cleansing of the involved filters.	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period Regular checks records will be documented.

Applicability of the methodology is foreseen in the following types of situations that shall be reassessed at the beginning of each crediting period: (a) Case 1: Project activities implemented in rural or urban areas of countries with proportion of rural or urban population using an improved drinking-water source equal to or less than 60% confirmed by one of the three options below: (i) Proportion of populations using an improved drinking-water source for the most recent year for which data is available from WHO/UNICEF Joint Monitoring Programme (JMP) for Water Supply and Sanitation shall be used (< http://www.wssinfo.org/dataestimates/table/ >) for this purpose. Definition of improved and unimproved drinking water source shall be as per the information provided by JMP; (ii) Using official data such as publicly available statistical data from a government agency or an independently commissioned study by an international organization or an university; (iii) Using survey methods (use 90/10 confidence/precision for sampling); (b) Case 2: Project activities implemented in areas not included in case 1.	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Project boundary	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Establishment and description of baseline scenario	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Demonstration of additionality	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Prior Consideration	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Ongoing Financial Need	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Explanation of methodological choices/approaches for estimating the SDG Impact	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Data and parameters fixed ex ante	determined at VPA level						
Parameter 1							
Parameter 2							
Insert required rows...							
Ex ante estimation of SDG Impact	determined at VPA level						
Summary of ex ante estimates of each SDG Impact	determined at VPA level						
SDG impact 1							
SDG impact 2							
SDG impact 3							
Insert required rows...							
MONITORING PLAN							
Data and parameters to be monitored	determined at VPA level						
Parameter 1							
Parameter 2							
Insert required rows...							
Sampling plan	determined at VPA level						
Other elements of monitoring plan	determined at VPA level						

DURATION AND CREDITING PERIOD							
Start date of project	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Expected operational lifetime of project	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Start date of crediting period	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
Total length of crediting period	document review	Yes	N/A	N/A	N/A	Positive	PoA-DD, VPA-DDs, MRs, and the corresponding audit reports of 1st crediting period
SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT							
Safeguarding Principles that will be monitored	determined at VPA level						
Assessment that project complies with GS4GG Gender Sensitive requirements	determined at VPA level						
SUMMARY OF LOCAL STAKEHOLDER CONSULTATION							
Summary of stakeholder mitigation measures	determined at VPA level						
Final continuous input / grievance mechanism	determined at VPA level						
Safeguarding Principles Assessment	determined at VPA level						

The issues discussed during the follow-up interview were provided in the table below:

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	OCAMA	Andrew	Evidence Action (EA) - Senior Manager Carbon	24/05/2022	<ul style="list-style-type: none"> Compliance with PoA-DD form Application and selection of methodologies and standardized baselines Validity of original baseline or its update Crediting period CME and project participants Post-registration changes 	Ms. Wang Guolian
2.	NANZALA	Hilda	Evidence Action (EA) – Senior Associate MLE	24/05/2022		
3.	KLADADA	James	Evidence Action (EA) – Associate MLE	24/5/2022		
4.	MUGIDE	Emma	Evidence Action (EA) – Associate Prog - Implementation	24/05/2022		
5.	NAMONO	Alice	Evidence Action (EA) – Officer MLE	24/05/2022		
6.	APOLLO	Malinga	Evidence Action (EA) – Officer MLE	24/05/2022		
7.	MANANA	Sandra	Local expert	24/05/2022		
8.	YANG	Xuan	CME: Pure Water Ltd. (PWL)	24/05/2022		
9.	DUAN	Jane	CME: Pure Water Ltd. (PWL)	24/05/2022		

3 Resolution of findings and REPORTING

During the validation of a project activity, to identify issues that need to be further elaborated upon, researched or added to in order to confirm that the project activity meets the CDM/GS requirements and can achieve credible emission reductions, CTI validation team will issue a Corrective Action Request (CAR), a Clarification Request (CL) or a Forward Action Request (FAR) depending on different situations.

A CAR will be raised if one of the following occurs,

- (a) The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions;
- (b) The requirements have not been met;
- (c) There is a risk that emission reductions cannot be monitored or calculated.

A CL will be raised if information is insufficient or not clear enough to determine whether the applicable requirements have been met.

A FAR will be raised during validation to highlight issues related to project implementation that require review during the first verification of the project activity. However, FARs shall not relate to the requirements for registration.

After checking Verifications Report of previous monitoring periods, CTI Validation Team identified no FARs. In the course of the validation, no Corrective Action Request (CAR), 2 Clarification Requests (CL) or Forward Action Request (FAR) were raised during this validation. To address them, the PP responded by providing additional information or evidence, and/or by revising the Gold Standard GS PoA-DD. The Gold Standard GS PoA-DD was resubmitted by PP to CTI validation team for further review. Documents reviewed and information sources used are also listed in Appendix B to this report.

The final validation conclusion presented in this report is based on the project information as described in the GS4GG PoA-DD (Version 02 dated 14/06/2022). CTI validation team compiled the validation report and submitted it for technical review, decision making and final approval.

4 Summary of Validation Findings

4.1 Participation

CTI validation team checked the names of the project participant, Swiss Carbon Assets Ltd., against the webpage of the PoA (<https://registry.goldstandard.org/projects/details/326>), and confirms the insistency.

4.2 Project description

The purpose of the PoA is to use carbon finance for the introduction of low greenhouse gas emitting water purification systems to provide clean drinking water to low-income households. The PoA serves as an open platform for various water treatment technologies which are eligible under the methodology AMS-III.AV. Version 05.0.

The PoA is coordinated by a coordinating/managing entity (CME) Pure Water Ltd. The small-scale included voluntary project activities (VPAs) can be implemented by various local actors, e.g.:

- National and local authorities (governments, municipalities, etc.);
- NGOs;
- International institutions;
- Specialised companies;
- Communities or local associations.

This PoA seeks to further the access of households and communities to clean and safe drinking water, by promoting low greenhouse gas emitting water purification technologies. This PoA is thus primarily designed for the long-term improvement of the living conditions of local people. The targeted users of such technologies will be households and/or communities.

Examples of technologies include, but are not limited to, water filters (e.g. membrane, activated carbon, ceramic filters), solar technologies (Ultra violet disinfection devices, solar water disinfection SODIS), photocatalytic disinfection equipment, pasteurization appliances, chemical disinfection methods (eg. Chlorination), combined treatment approaches (eg. Flocculation plus disinfection), etc.

The PoA reduces the use and demand for fossil fuels and non-renewable biomass that would have been used to boil water as a mean of water purification in the absence of the Programme of Activities. This directly leads to reduced greenhouse gas emissions.

The 1st crediting period is from 16/11/2012 to 15/11/2019. Therefore, PP is applying for a 2nd crediting period which started from 16/11/2019 to 15/11/2026.

4.3 Changes in the PoA/VPAs as related to the General Eligibility Criteria

The implementation of the PoA remains unchanged since it has been registered as a CDM PoA and GS PoA, which complies with the general eligibility criteria in the GS4GG Programme of Activity requirements and procedures, Version 2.0, GS4GG Principles & Requirements, Version 1.2, GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2. The general eligibility criteria are justified as below:

General Eligibility Criteria	Means of Validation	Criteria fulfilled
<p>4.1 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Type and scale</p> <p>3.1.1 (a) GS4GG Principles & Requirements, Version 1.2 Types of Project</p> <p>2.1.1~2.2.3 GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2</p>	<p>The project seeks to further the access of households and communities to safe drinking water, using a low greenhouse gas emitting water purification technology. Thus, the project type is a Water, sanitation and hygiene (WASH) activity contributing to climate change mitigation and/or adaptation benefits, which meet the 4.1.1 a of GS4GG Programme of Activity requirements and procedures, Version 2.0: Non – Forestry and/or Non -AGR PoA.</p> <p>The PoA comprises small scale VPAs.</p> <p>The PoA and all included VPAs lead to climate change mitigation and adaptation by providing or improving access to services/resources at the household level.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>4.2 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Purpose and general description of the PoA</p> <p>3.1.1 (b) GS4GG Principles & Requirements, Version 1.2 Location of Project</p> <p>3.1.1 (c) GS4GG Principles & Requirements, Version 1.2 Project Area, Project Boundary and Scale</p> <p>3.1.1 (e) GS4GG Principles & Requirements, Version 1.2 Contact Details</p> <p>3.1.1 (h) GS4GG Principles & Requirements, Version 1.2 Official Development Assistance (ODA) Declaration</p>	<p>The CME describes the PoA in the PoA-DD to provide an understanding of the nature and implementation of PoA and monitoring arrangement for VPAs that are or will be included in the proposed PoA.</p> <p>The CME provides, inter alia, the information on the following design elements of the PoA:</p> <ul style="list-style-type: none"> a. A unique title of the PoA b. The purpose and general description of the proposed PoA c. The physical/geographical boundary of the proposed PoA in terms of a geographical area d. The technologies and/or measures to be employed and/or implemented by the VPAs under the PoA e. A description of how the technologies/measures and know-how for their use are transferred to the host Party, where applicable f. The name of the CME of the proposed PoA, and their contact information g. The CME indicates whether the proposed PoA receives any public funding: the project developer has signed the ODA declaration template and confirms that no ODA assistance is provided to this PoA. h. The CME defines the inclusion criteria of VPAs by setting out required conditions for a proposed VPA to be included in the PoA. The CME demonstrates the usability of the criteria for assessing the inclusion of VPAs in the PoA. <p>The locations of all project activities under this PoA can host the Gold Standard projects.</p> <p>Besides, the unique identification of each project device and the end-users locations would also ensure no double counting happens.</p> <p>The contact details of all project participants are provided in Appendix 1 of the PoA DD.</p> <p>The copy of the certificate or business license of each project participant has been provided as evidence to show the legality</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

	of the entity/organisation.				
4.3 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Management system	The CME has established, implemented, and provided a description of the operational and management system for the implementation of the proposed PoA, including the required information of the GS4GG Programme of Activity requirements and procedures, Version 2.0.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.4 of GS4GG Programme of Activity requirements and procedures, Version 2.0, PoA boundary	The PoA boundary is defined in its entirety at the time of Design Certification, and the boundary has not been changed.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.5 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Demonstration of additionality	The VPAs in accordance with the GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2 included in the PoA are automatically additional, as the VPAs either meet conditions listed under 1.1.3 on the Positive List on Annex B of the “Community Services Activity Requirements” or are located in LDC, SIDS, LLDC.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.6 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Start date and duration	The PoA that are design certified under an earlier version of Gold Standard shall maintain their maximum crediting periods as envisaged at time of registration, as per the GS4GG Programme of Activity requirements and procedures, Version 2.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.7 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Safeguarding assessment	Conducted at the VPA equivalent level.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.8 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Contributions to SDGs	Conducted at the VPA equivalent level.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.9 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Stakeholder Consultation	Conducted at the VPA equivalent level.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.10 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Approval and Authorisation	N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
4.11 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Baseline and Monitoring Methodology(ies)	The assessment of the project’s compliance with the applicability criteria of AMS-III.AV. Version 05.0 Low greenhouse gas emitting safe drinking water production systems:				
	<table border="1"> <thead> <tr> <th>Applicability criteria</th> <th>Validation Opinion</th> </tr> </thead> <tbody> <tr> <td>Prior to the implementation of the project activity, a public distribution network supplying safe drinking water (SDW) to the project boundary does not exist.</td> <td>No public distribution network supplying safe drinking water (SDW) existed prior to the implementation of the project activity, evidenced by interviews with officials, end-users, NGOs, or local experts or published reports, maps, pictures,</td> </tr> </tbody> </table>	Applicability criteria	Validation Opinion	Prior to the implementation of the project activity, a public distribution network supplying safe drinking water (SDW) to the project boundary does not exist.	No public distribution network supplying safe drinking water (SDW) existed prior to the implementation of the project activity, evidenced by interviews with officials, end-users, NGOs, or local experts or published reports, maps, pictures,
Applicability criteria	Validation Opinion				
Prior to the implementation of the project activity, a public distribution network supplying safe drinking water (SDW) to the project boundary does not exist.	No public distribution network supplying safe drinking water (SDW) existed prior to the implementation of the project activity, evidenced by interviews with officials, end-users, NGOs, or local experts or published reports, maps, pictures,				

		official documents. Hence this criterion is met.	
	The application of the project technology/equipment achieves compliance either with: (i) the “interim” performance target as per “Evaluating household water treatment options: Health based targets and microbiological performance specifications” (WHO, 2011); or (ii) an applicable national standard or guideline.	Chlorination meets the “interim” performance target. Hence this criterion is met.	
	In cases where the life span of the water treatment technologies is shorter than the crediting period of the project activity, there shall be documented measures in place to ensure that end users have access to replacement purification systems of comparable quality.	Measures are in place to ensure that chlorine is refilled regularly, and broken chlorine dispensers are repaired or replaced with systems of comparable quality. Repair and replacement of the dispensers will be documented. Hence this criterion is met.	
	It should be demonstrated that the maintenance of the project appliances is implemented in accordance with manufacturer’s specifications/ recommendations, including any provisions in regard to replacement or cleansing of the involved filters.	The maintenance of the project appliances will be implemented in accordance with manufacturer’s specifications/ recommendations, including any provisions in regard to replacement or cleansing of the involved filters. Regular checks records will be documented. Hence this criterion is met.	
	Applicability of the methodology is foreseen in the following types of situations that shall be reassessed at the beginning of each crediting period: (a) Case 1: Project activities	The CPA falls into Case 2. Hence this criterion is met.	

	<p>implemented in rural or urban areas of countries with proportion of rural or urban population using an improved drinking-water source equal to or less than 60% confirmed by one of the three options below:</p> <p>(i) Proportion of populations using an improved drinking-water source for the most recent year for which data is available from WHO/UNICEF Joint Monitoring Programme (JMP) for Water Supply and Sanitation shall be used (<http://www.wssinfo.org/dataestimates/table/>) for this purpose. Definition of improved and unimproved drinking water source shall be as per the information provided by JMP;</p> <p>(ii) Using official data such as publicly available statistical data from a government agency or an independently commissioned study by an international organization or an university;</p> <p>(iii) Using survey methods (use 90/10 confidence/precision for sampling);</p> <p>(b) Case 2: Project activities implemented in areas not included in case 1.</p>					
<p>4.12 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Eligibility and Inclusion Criteria</p>	<p>The CME defined the eligibility criteria for inclusion of VPAs in section B.3 of the GS PoA-DD. A set of eligibility criteria per technology/measure or combination of technology/measure have been defined in the real case VPAs. The eligibility criteria for inclusion of real case VPA in PoA include the minimum requirements and criteria specified in the GS4GG Programme of Activity requirements and procedures, Version 2.0, including:</p> <table border="1" data-bbox="518 1915 1203 2076"> <tr> <td data-bbox="518 1915 774 2076">Required by GS4GG Programme of Activity requirements and procedures, Version</td> <td data-bbox="774 1915 1053 2076">Corresponding eligibility criteria No.</td> <td data-bbox="1053 1915 1203 2076">Validation team justification (meet the</td> </tr> </table>	Required by GS4GG Programme of Activity requirements and procedures, Version	Corresponding eligibility criteria No.	Validation team justification (meet the		<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
Required by GS4GG Programme of Activity requirements and procedures, Version	Corresponding eligibility criteria No.	Validation team justification (meet the				

	2.0		requirements, Y/N?)	
	a. Geographical boundaries of the VPA consistent with that of the PoA	1 Geographical boundary	Y	
	b. Conditions to avoid double counting of GHG emission reductions or net anthropogenic GHG removals, such as unique identifications of product and end user locations	2 Avoidance of double counting	Y	
	c. Conditions to check the start dates of VPA through documentary evidence	5 Start date	Y	
	d. Conditions to ensure compliance with the applicability of the applied methodologies, the applied standardised baselines and the other applied methodological regulatory documents	6 Applicability of the methodology	Y	
	e. Conditions to ensure that VPA meet the requirements for demonstration of additionality	7 Additionality	Y	
	f. Condition to ensure that the real case VPA and its regular VPAs meet the applicability criteria of selected methodology of combination of methodologies	Not applicable.	Y	
	g. Conditions to ensure that real case and its regular	7 Additionality	Y	

	VPAs systematically demonstrate additionality in accordance with GS4GG Principles & Requirements, Version 1.2			
4.13 of GS4GG Programme of Activity requirements and procedures, Version 2.0, Debundling	N/A			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.1.1 (d) of GS4GG Principles & Requirements, Version 1.2: Host Country Requirements	No regulations or laws in the country prevents the dissemination of water purification technologies introduced by this PoA.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.1.1 (f) of GS4GG Principles & Requirements, Version 1.2: Legal Ownership	Each end users of the water purification technologies is notified that they need to give up the carbon credits ownership to the coordinating/managing entity (CME) or project implementer of the PoA. The end users would sign the form to show that they agree to waiver the carbon credits ownership to CME or implementer.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.1.4 of GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2, Legal ownership	End-users are aware of and willing to give up their rights on carbon credits. The transfer of carbon credit rights from end-users to the CME / project implementer is mentioned explicitly in writing on the informational material, which each end-user receives during the community education meeting.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

4.4 Incorporation of any relevant updates to the gold standard requirements

Any relevant updates to the gold standard requirements are justified according to GS4GG Programme of Activity requirements and procedures, Version 2.0, GS4GG Principles & Requirements, Version 1.2 and GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2, and relevant GS requirements under GS4GG as below:

▪ Principle 1 – Contribution to Climate Security & Sustainable Development

The type of PoA is a Water, sanitation and hygiene (WASH) activity contributing to climate change mitigation and/or adaptation benefits, which meet the 4.1.1 a of GS4GG Programme of Activity requirements and procedures, Version 2.0: Non – Forestry and/or Non -AGR PoA, which is automatically eligible for Gold Standard Certification. The baseline scenario and project scenario for the project in the 2nd crediting period remains the same as that in the 1st crediting period and no negative comments were raised by the stakeholder consultation. By checking the updated GS PoA-DD, and through remote inspection, CTI validation team confirmed that the PoA would contribute climate security & sustainable development in the region in following aspects:

a) Socio-economic benefits

Cheaper access to drinking water: The PoA provides access to clean drinking water, which reduces cost for families and thereby reduces child and adult morbidity and mortality, improves attendance at school, increases productivity, and more generally gives a sense of hope and opportunity.

Micro-entrepreneurs: low greenhouse gas emitting water purification technologies offer scope for micro-entrepreneurs, thereby creating jobs and supporting families.

Economic sustainability and expansion: under this program, there is a direct incentive to ensure that the projects are successful, in that these same projects serve to fund further development. There is no disconnecting between funding and public health outcomes.

b) Health benefits

Improved indoor air quality: polluted indoor air due to open and uncontrolled combustion is a huge health concern in many developing countries. Low greenhouse gas emitting water disinfection technologies tackle this problem by reducing the combustion of wood/fossil fuels.

Improved water: Providing safe drinking water to households/communities will have a significant impact on child mortality. The Millennium Development Goal (MDG) target aims to halve the proportion of the population without sustainable access to safe drinking-water. Strides have been made in improving access to safe drinking water and the world is projected to exceed this target.

The SDG goals have been described in the GS PoA-DD has been updated as per the latest SDG Impact Tool, Version 2.0. CTI checked all the SDG goals of the project activity through document review and remote inspection, which was:

SDG Goal	SDG Impact Indicator
13 Climate Action (mandatory)	Emissions Reductions
3 Good Health and Well-being	Percentage of households reporting reduction in smoke exposure and/or in waterborne diseases
6 Clean Water and Sanitation	Number of people who have access to clean drinking water

The data source and reference were provided for each indicator in the GS PoA-DD, and CTI validation team confirmed that assessment to SDG goals of the project activity is appropriate for the renewal of the crediting period.

▪ **Principle 2 – Safeguarding Principles**

A Safeguarding Principle Assessment has been carried out in the GS4GG VPA DD of each VPA.

▪ **Principle 3 – Stakeholder Inclusivity**

A Stakeholder Inclusivity Principle Assessment has been carried out in the GS4GG Stakeholder Consultation Report of each VPA.

▪ **Principle 4 – Demonstration of Real Outcomes**

CTI confirms that by successfully following the Procedures and applicable Requirements included the Project Cycle Section, the PoA demonstrates real and verified outcomes and are able to issue the relevant Certified Impact Statements and/or Products:

(a) Project start date

The GS PoA-DD specifies that the start date of each VPA (first installation of dispensers) will be specified in each VPA-DD and is after 29/07/2011, on which the PoA started validation.

(b) Development of monitoring and reporting plan

Monitoring plan will be included in VPA-DD of each VPA.

▪ **Principle 5 – Financial Additionality & Ongoing Financial Need**

N/A as the PoA is automatically additional. Ongoing Financial Need will be demonstrated in the section B.5.2 of each VPA-DD.

4.5 Re-definition of baseline scenario and any impact of change on the eligibility principles, criteria and requirements

The validation team has assessed the validity of the baseline of the PoA as per below. According to the CDM Methodological tool of “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (Version 03.0.1)” /21/, the stepwise procedure to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period are as follows.

Step 1: Assess the validity of the current baseline for the next crediting period

According to the procedures approved by the CDM Executive Board, updated PoA-DD is required to incorporate the impact of national and/or sectoral policies and circumstances existing at the time of requesting for renewal of the crediting period on the current baseline emissions, except for the case where the project activity applies the valid version of an applicable standardized baseline that standardizes baseline scenario. The validity of the current baseline is assessed using the following Sub-steps:

Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies

The baseline scenario identified at the validation of PoA which is the use of fossil fuel or non-renewable biomass (NRB) to boil water. It has been checked that there has been no change in the baseline scenario and is in compliance with all the relevant mandatory national and/or sectoral policies.

Step 1.2: Assess the impact of circumstances

Conditions used to determine the baseline emissions in the previous crediting period are still valid. There are no new relevant national and/or sectoral policies and/or circumstances applicable to the PoA, in comparison to the time of the validation of the PoA for the 1st crediting period, which could impact the validity of the current baseline for the next crediting period.

Step 1.3: Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested

The baseline scenario identified at the validation of PoA which is the use of fossil fuel or non-renewable biomass (NRB) to boil water, and no investment needs to be undertaken by the CME. Therefore this condition is not applicable to the PoA.

Step 1.4: Assessment of the validity of the data and parameters

This will be confirmed at the CPA level.

Step2: Update the current baseline and the data and parameters Step

2.1: Update the current baseline

The baseline remains unchanged as discussed above.

Step 2.2: Update the data and parameters

This will be confirmed at the CPA level.

4.6 Any gold standard activity, product and methodology-specific requirements

The applied methodology of the PoA of 1st crediting period was AMS-III.AV. Version 03.0. The GS PoA-DD for renewal of the 2nd crediting period applied the later version of the methodology AMS-III.AV. Version 05.0, which is the same of the CDM PoA-DD of the 2nd crediting period. Applicability of the methodology AMS-III.AV. Version 05.0 has been assessed in the section 4.3. CTI validation team confirms the project meets each of the applicability conditions of the methodology; it also meets all the other stipulations and limitations mentioned in the other sections of the methodology; the continued validity of the baseline is assessed and the emissions which would be resulted from the baseline scenario are updated at the start of the 2nd crediting period, as per the requirements of the methodology AMS-III.AV. Version 05.0.

4.7 Demonstration of OFN compliance to latest version of applied methodology

Refer to section 4.4, principle 5 of this report.

5 Estimation of emission reductions for the crediting period

Calculation of the ERs will be justified at CPA level.

6 Validation opinion

Shenzhen CTI International Certification Co., Ltd (CTI), commissioned by Swiss Carbon Assets Ltd. (PP of the project activity), has performed a validation for renewal of the crediting period of the PoA "International Water Purification Programme" (GS ID: 2404) and hereafter referred to as "the PoA". The validation was performed in accordance with GS4GG Programme of Activity requirements and procedures, Version 2.0, GS4GG Principles & Requirements, Version 1.2, GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2, the UNFCCC criteria for the Clean Development Mechanism and host country criteria.

The validation scope is defined as an independent and objective review of the GS PoA-DD (Version 02 dated 14/06/2022), the baseline update, monitoring plan and other relevant documents, and consisted of the following three phases:

1. Desk review of the project design and baseline and monitoring plan;
2. remote interview with PP and relevant stakeholders;
3. Resolution of outstanding issues and the issuance of the final validation report and opinion.

After checking previous validation report of the 1st crediting period and periodic verification reports, CTI Validation Team identified no FARs. In the course of the validation, no Corrective Action Request (CAR), 2 Clarification Requests (CL) and no Forward Action Request (FAR) were raised for the proposed GS project activity in relation to all relevant Gold Standard requirements including GS4GG Programme of Activity requirements and procedures, Version 2.0, GS4GG Principles & Requirements, Version 1.2, GS4GG Activity Requirements: Community Service Activity Requirements, Version 1.2, Gold Standard for the Global Goals Requirements & Guidelines for Transition of Projects from Previous Versions of the Standard, Version 2.0. Until issuance of this version of validation report, the raised CL and CAR was successfully closed.

The review of the GS PoA-DD (Version 02 dated 14/06/2022) and additional background documents, the subsequent follow up interviews, together with the review of comments by Parties and Stakeholders, have provided CTI with sufficient evidence to confirm that the project has satisfied the stated criteria.

The validation covered all project components and issues that need to be validated for renewal of the 2nd crediting period as a GS project. In our opinion, CTI hereby confirms that the project correctly applied the methodology AMS-III.AV. Version 05.0 and meets relevant UNFCCC and Gold Standard requirements for renewal of the crediting period.

The 1st 7-year renewable crediting period is from 16/11/2012 to 15/11/2019. The PP is applying for a 2nd crediting period started from 16/11/2019 to 15/11/2026. CTI hereby requests for renewal of the crediting period for the project.

APPENDIX A: RESOLUTION OF CORRECTIVE ACTION REQUEST/CLARIFICATION REQUEST/FORWARD ACTION REQUEST

Table 11. CL from this validation

CL ID	01	Section no.	4.2	Date: 31/05/2022
Description of CL				
The PoA-DD has to be revised under the updated template of the PoA-DD.				
Project participant response				Date: 02/06/2022
The PoA-DD has been revised under the updated template of the PoA-DD.				
Documentation provided by project participant				
Revised GS PoA-DD				
Validation conclusion				Date: 06/06/2021
The PoA-DD has been revised under the updated template of the PoA-DD. This CL is closed.				

CL ID	01	Section no.	4.3	Date: 31/05/2022
Description of CL				
The justification of requirements in the GS4GG Programme of Activity requirements and procedures, Version 2.0 shall be included in the PoA-DD.				
Project participant response				Date: 02/06/2022
The PoA-DD has been revised to include the justification of GS4GG Programme of Activity requirements and procedures, Version 2.0.				
Documentation provided by project participant				
Revised GS PoA-DD				
Validation conclusion				Date: 06/06/2021
The PoA-DD has been revised to include the justification of GS4GG Programme of Activity requirements and procedures, Version 2.0. This CL is closed.				

Table 2. CAR from this validation

CAR ID	xx	Section no.		Date:
Description of CAR				
Project participant response				Date:
Documentation provided by project participant				
Validation conclusion				Date:

Table 3. FAR from this validation

FAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
Validation conclusion				Date: DD/MM/YYYY

APPENDIX B: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Ms. Guolian WANG

Satisfies the requirements of competence management system of CTI Certification, and is hereby appointed as:

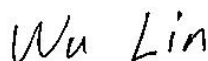
Qualification						
Status	GHG Auditor	Validator	Verifier	Team Leader	Technical Reviewer	Technical Expert
Date	√	√	√	√	√	√

Scope	Technical Area
SS 1: Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources
SS 3: Energy demand	TA 3.1: Energy demand
SS 4: Manufacturing industries	TA 4.1. Cement and lime production
SS 5: Chemical industry	TA 5.1: Chemical industry
	TA 5.2: Caprolactam, nitric and adipic acid
SS 11: Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride	TA 11.1: Emissions of fluorinated gases
	TA 11.2: Refrigerant gas production
SS 12: Solvents use	TA 12.1: Chemical industry

This appointment is valid for 3 years from its date of approval below and is bound by internal requirements of management system of the Certification Body of CTI.

Approved by:

Wu LIN



Technical Competent Manager

Shenzhen, 01/01/2021

Ms. Liu Jia

Satisfies the requirements of the Certification Body of CTI and is hereby appointed as:

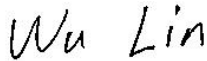
Qualification as						
Status	GHG Auditor	Validator	Verifier	Team Leader	Technical Reviewer	Technical Expert
Date	√	√	√	√	√	√

Scope	Technical area
SS 1: Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources
SS 3: Energy demand	TA 3.1: Energy demand

This appointment is valid for 3 years from its date of approval below and is bound by internal requirements of management system of the Certification Body of CTI.

Approved by:

Wu Lin



Technical competent manager
Shenzhen, 01/07/2019