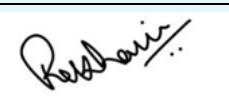


Gold Standard for Global Goals Verification Report (Project activities) (EPL-GS-2024-54)

GS ID	10797	
Title of Project	Himalayan Rocket Stove Project in India	
Version number of the Verification Report	1.2	
Completion date of Verification Report	31/10/2025	
Version number and completion date of the monitoring report (MR) to which this report applies	Version 2.2 of 27/10/2025	
Monitoring period number	2	
Monitoring period duration	01/03/2023 to 04/07/2024 (inclusive of both dates)	
Date of design certification	27/07/2021	
Start date of Crediting Period	05/07/2019	
Project Developer	Swiss Carbon Value Ltd.	
Project Representative	Swiss Carbon Value Ltd.	
Project Participants and any communities involved	Himalayan Rocket Stove; Swiss Carbon Value Ltd.	
Host Country (ies)	India	
Activity Requirements applied	☐ Renewable Energy Activity Requirements ☒ Community Services Activity Requirements ☐ Land-Use & Forests Activity Requirements ☐ New project types ☐ Others (<i>rules and requirements available in Principles and Requirements apply</i>)	
Scale of the project activity	☐ Microscale ☐ Small scale ☒ Large scale ☐ Others	
Methodology applied	<i>Title(s) of methodology (ies)</i>	Technologies and Practices to Displace Decentralized Thermal Energy Consumption

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	The version number of the methodology (ies)	3.1																																																								
Product Requirements applied	☒ <u>GHG Emissions Reductions & Sequestration</u> ☐ <u>Renewable Energy Label</u> ☐ Others <i>For all other Certification Statements, Certified SDG Impact Statements or Products.</i> Please specify: ☐ N/A																																																									
Project cycle	☒ Regular ☐ Retroactive																																																									
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Name of the VVB	EcoLance Pvt. Ltd.																																																									
Name, Designation and Signature of the Approver from VVB	 Rekha Menon, Director-Technical																																																									

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Executive Summary

EcoLance Private Limited (EPL), appointed by Swiss Carbon Value Ltd., has performed the 2nd verification of greenhouse gas emission reductions reported for project activity “Himalayan Rocket Stove Project in India” GS 10797, covering monitoring period from 01/03/2023 to 04/07/2024 with regard to the relevant requirements for GS activities.

The project involves installation of Himalayan Rocket Stove in needy households primarily in the states in Himalayan region of India. These stoves are used to meet two purposes: space heating and cooking. The use of these highly efficient stoves significantly reduces the firewood consumption of households and thereby reduction of greenhouse gas emissions because of reduced firewood consumption. The stoves are available in four capacities namely Eco mini, Eco1, Eco2 and Eco3. During this verification a total of 11,054 ICS deployed and 8,292 have been considered for claiming ERs as per GS usage rate guidelines. VVB confirmed the operational status of the distributed ICS as per the monitoring survey report. In addition to the reduction of GHG emissions under SDG 13, the project intends to contribute positively benefits under SDG goal 7 and 15.

The project developer Swiss Carbon Value Ltd. with its local partner oversees a comprehensive database to monitor the distributed ICS as per the registered monitoring plan. This involves distributing the stoves through a network of local field staff and monitoring at regular intervals as per monitoring plan. From 05/07/2019 to 04/07/2024 the project has successfully distributed a total of 11,054 ICS in 11 states of India. 1. To determine the emission reductions achieved during the monitoring period, date of commissioning has been considered to determine the number of operational days for each stove. Date of commissioning is the date when the stove is completely installed and is ready for use. Invoicing date has not been considered in any calculations.

Verification methodology and process

The verification has been performed as per requirements described in the Gold Standard for the Global Goals Principles & Requirements (version 1.2) /05/; and CDM VVS for project activities (version 03.0) /08/; GS VVS for Validation and Verification body Requirements (version 2.0); Gold Standard Technologies and Practices to Displace Decentralized Thermal Energy Consumption (version 3.1) /04/ and constitutes the review and completion of the following steps:

- Review of the final PDD (version 06; Dated: 01/02/2023) /02/, including the monitoring plan and the corresponding validation report /07/, the Sustainability Matrix and monitoring data;
- Desk review of the MR, emission reduction spreadsheet and survey data;
- Review of the applied monitoring methodology “Gold Standard Technologies and Practices to Displace Decentralized Thermal Energy Consumption” (version 3.1) /04/;
- Resolution of CARs and CLs raised during verification;

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- Issuance of Verification Report;

Section 1: Verification Team

S.No	Role	Full name	Internal/ External Resource to VVB (INT/EXT)	Activities performed
1.	Team Leader / Verifier	Debarshi Das	INT	☒ Desk review ☒ On-site audit ☐ Remote interviews ☒ Findings Preparation ☒ Report Preparation ☒ Sectoral scope issues ☐ Host country issues

Section 2: Technical Review and Approval Team

S.No	Role	Full name	Internal/ External Resource to VVB (INT/EXT)	Activities performed
1.	Technical Reviewer	Eswar Murty	INT	☒ Technical review ☒ Sectoral scope issues
2	Expert to Technical Reviewer	NA	NA	☐ Technical review ☐ Sectoral scope issues
3	Approver	Rekha Menon	INT	☒ Final review ☒ Decision making

Section 3: On-Site inspection

Activity performed on-site	Site location		Date(s)	Team member
Verify actual implementation of the project, management structure, project participant	Village(s)	Sangti, Bomdila, Chuchot, Skara Yakma,	29/11/2024 to 03/12/2024	Debarshi Das
Physically checking the project technology, end user details, identification of project				

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boundary, monitoring and verification of parameters, equipment and facilities, sampling		Pangong, Agling, Shey, Skitsalling,		
Management and operational system: Documentation, allocation of responsibilities, qualification and training, data recording & archiving, internal audit and management review and emergency procedures	District	Dirang, West Kameng, Leh		
Interviews with end user and other stakeholders, continuous input grievance mechanism	State/Province	Arunachal, Ladakh		
Calibration of equipment, QA/QC procedures	Country	India		
SDG Impacts and calculations				

Section 4: Remote Audit

Not applicable.

Section 5: Interviews

S.No	Date	Full name	Company/Organization	Topics discussed
1	29/11/2024 to 03/12/2024	Vikash Yadav	Swiss Carbon Value Ltd.	Project Design, ownership details, carbon credit sharing arrangements, monitoring and reporting arrangements. MR preparation, emission reduction calculations.
2		Prakhar Badal	Swiss Carbon Value Ltd.	
3		Sreejith Lot J.S.	HRS Pvt Ltd.	
4		N. Tashi	HRS Pvt Ltd.	
5		T. Namgyal	HRS Pvt Ltd.	
6		Chozany Maupial	HRS Pvt Ltd.	
7		Skalzang Lhamo	HRS Pvt Ltd.	
End Users/ Stakeholders Interviewed				
S.No	Date	Full name	Village / District	Topics discussed
1	29/11/2024	Leiki	Sangti / Dirang	ICS operational status, ICS usage, feedback on SD parameters, grievance redressal.
2	02/12/2024	Konchok Chokdup	Shey / Leh	
3	02/12/2024	Stanzin	Chuchot / Leh	
4	02/12/2024	Stanjin Namgyal	Chuchot / Leh	
5	02/12/2024	Alta Mohd.	Chuchot / Leh	
6	03/12/2024	Stanjin Dolkar	Agling / Leh	
7	03/12/2024	Jigmit Dadul	Skitsalling / Leh	
8	29/11/2024	Dechen Paidom	Sangti / Dirang	
9	29/11/2024	Nima Dorjey	Sangti / Dirang	

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10	28/11/2024	Dorjee Tsering	Bomdila / West Kameng	
11	28/11/2024	Dechen Hingroo	Bomdila / West Kameng	
12	28/11/2024	Pema Norbu	Bomdila / West Kameng	
13	28/11/2024	Passang Dorjee	Bomdila / West Kameng	
14	30/11/2024	M C Adath	Bomdila / West Kameng	
15	30/11/2024	G N Gengapan	Bomdila / West kameng	
Baseline users interviewed:				
1	29-11-24	Dorji Norbu	Pangsa / West Kameng	Understanding of carbon program, co-benifits of the project, baseline technology, requirement of new technology, involvement in local stakeholder consultation, grievance mechanism, communication medium with the project developer and implementer
2	29-11-24	Tsering Pema	Pangsa / West Kameng	
3	29-11-24	Tsering Drema	Pangsa / West Kameng	
4	29-11-24	Pan Tsering	Pangsa / West Kameng	
5	29-11-24	Pema Sangey	Sangti / West Kameng	
6	29-11-24	Sangi Choejom	Sangti / West Kameng	
7	29-11-24	Ahuja	Sangti / West Kameng	
8	30-11-24	Thurpa	Sangti / West Kameng	
9	30-11-24	Rinchin Dron	Sangti / West Kameng	
10	02-12-24	Tsering Dorjey	Choglamsar / Leh	
11	02-12-24	Konchok Chauba	Bema / Leh	
12	03-12-24	Thinles Norbu	Pangong / Leh	
13	03-12-24	Padma Namgyal	Pangong / Leh	
14	03-12-24	Konchok Mutup	Pangong / Leh	
15	03-12-24	Dalden Namgyal	Pangong / Leh	

Section 6: VVB Sampling Approach

As per §25 of the Standard: Sampling and surveys for CDM project activities and programmes of activities (version 09.0) /10/, the verification team has to verify whether the project participant have implemented the sampling and surveys according to the sampling plan in the registered monitoring plan. The verification includes determining:

- (a) Whether the required confidence/precision has been met;
- (b) Whether the selected sample was representative of the population.

In line with §26 of the Sampling Standard (version 09.0) /10/, the verification team has applied a sampling approach for onsite visit as part of verification. Since PP had applied a sampling approach, the verification team has chosen acceptance sampling for monitoring parameters in accordance with §28 of the sampling standard (version 09.0) /10/.

The following table illustrates the agenda covered during the acceptance sampling by the VVB in accordance with Table 1, § 37 of “Standard: Sampling and surveys for CDM project activities and programmes of activities (version 09.0) /10/;

Parameter	How the PP conducted sampling surveys	How the VVB could obtain records for verification	Criteria for deciding what ultimately constitutes a discrepancy
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Operational status of project ICS	Sampling based survey (questionnaire survey/interviews)	Cross-check of a sample of PP's samples (Questionnaire, operation surveys/interviews) including but not limited to following: - Consistency between the information as contained in Survey sheet and revealed from on-site inspection interviews. - Enquire/observe whether ICSs are in use or not?	VVB results, accounting for duly justified differences.
Fuel consumption in project ICS			
Fuel consumption in baseline stove			

EPL has considered para 39 (a) of “Standard for Sampling and surveys for CDM project activities and programmes of activities, Version 09.0” for determining the sampling size to be visited by VVB /10/. In case of the current verification, the total number of ICS is 11,054 (commissioned) and the PP have opted for a sample size of more than 100 for the monitoring survey. The sample size to assess the operational status should be a minimum of 100 with a minimum of 30 samples for project technology of each vintage. For the remaining parameters sample size has been determined for a desired confidence precision level of 90/10 as per the equation provided in para 51 of appendix 1, EB 86 Annex 4, Guidelines for sampling and survey for CDM project activities and programme of activities Ver. 4.0 and this is in line with the registered monitoring plan /02/ and applied methodology /04/. To select the samples from the project population, PP has utilized online random number generator. The audit team determined the sample size for acceptance sampling by evaluating the following, using its own professional judgment and guidance in the Standard “Sampling and surveys for CDM project activities and programme of activities” version 09.0 /10/: Considering Acceptable Quality Level (AQL): 0.5% Unacceptable Quality Level (UQL): 20% and producer risk of 10% and consumer risk of 10%, a sample size of 11 was required as per Table 2 in the referred Standard /10/. Acceptance number (c) thus determined for the sample size is 0. EPL audit was required to verify 11 samples of project ICS user and 11 samples for baseline users. Therefore, the audit team selected 30 random samples (15 from project users and 15 from baseline survey) for better feasibility considering possible non response or unavailability of end users during the on-site visit. The 30 samples selected randomly are listed below.

Sample for project stove users:

SI No.	Stove serial number	End user's name	Address	District	ICS type	Installation date
1	EM-1099	Leiki	Sangti, Dirang	West Kameng	Eco mini	14-12-2022
2	E1-1650	Konchok Chokdup	Shey	Leh	Eco-1	25-11-2023
3	3446	Stanzin	Chuchot	Leh	ECO-1	21/11/2021
4	EM-497	Stanjin Namgyal	Chuchot	Leh	Eco mini	08/02/2023
5	2437	Alta Mohd.	Chuchot	Leh	Eco-1	17-11-2021
6	EM-1185	Stanjin Dolkar	Chuchot	Leh	Eco-Mini	19/02/2023
7	EM-4474	Jigmit Dadul	Skitsalling	Leh	Eco-Mini	10-02-2023
8	EM-1090	Dechen	Sangti, Dirang	West Kameng	Eco-Mini	13-12-2022
9	EM-2851	Nima Dorjey	Sangti, Dirang	West Kameng	Eco-Mini	18-12-2022
10	EM-3141	Dorjee Tsering	Bomdila	West Kameng	Eco-Mini	23-11-2022
11	EM-1086	Dechen Hingroo	Bomdila	West Kameng	Eco-Mini	18-12-2022
12	EM-2772	Pema Norbu	Bomdila	West Kameng	Eco-Mini	15-12-2022
13	EM-1247	Passang Dorjee	Bomdila	West Kameng	Eco-Mini	11-12-2022
14	EM-4572	MC Adath	Bomdila	West Kameng	Eco-Mini	26-12-2022
15	EM-3799	G N Gengapan	Bomdila	West Kameng	Eco-mini	24-12-2022

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Sample households using baseline stoves:

SI No.	End user's name	Village	District
1	Dorji Norbu	Pangsa	West Kameng
2	Tsering Pema	Pangsa	West Kameng
3	Tsering Drema	Pangsa	West Kameng
4	Pan Tsering	Pangsa	West Kameng
5	Pema Sangey	Sangti	West Kameng
6	Sangi Choejom	Sangti	West Kameng
7	Ahuja	Sangti	West Kameng
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13	Padma Namgyal	Pangong	Leh
14	Konchok Mutup	Pangong	Leh
15	Dalden Namgyal	Pangong	Leh

The ICS details (unique serial number, date of installation, name of user and address) were also checked and found to be consistent with that reported in the project database. No inconsistency was observed for any of the 30 sample's monitoring results reported in the monitoring report.

Section 7: Application of Materiality

The threshold of the materiality was evaluated based on section 9.6 of GS Validation and verification standard" (version 1) /25/. It was concluded that the materiality threshold applicable to the project activity based on actual emission reductions achieved is 2% of 42,273 tCO₂e which is equal to 845.46 tCO₂e.

In planning the verification, verification team took cognizance of § 9.6.7 to 9.6.13 of GS Validation and verification standard" (version 1) /25/ as discussed below:

7.1 Consideration of materiality in planning the verification

S.No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human error in the quantification of emissions (which may be more likely to occur if personnel are unfamiliar with, or not well trained regarding, emissions processes or data recording).	Medium	Although this is second verification, there is a likelihood of human error in the quantification of emissions, since, all data parameters are monitored through survey based on manual observations and interviews. Hence, the risk level is medium.	During on-site assessment, the audit team will interview the staffs of the monitoring team and check all records to confirm whether the monitoring plan has been well implemented. The recording of monitoring parameters used for determining the project's baseline emissions are used from third party survey report, statistically approved sampling plan and project installation database. The verification team shall review the whole data set of records, and crosscheck against relevant options.
2.	Undue reliance on a poorly designed information system, which may have few effective quality controls.	Medium	PP is involved in preparation of documents with control of data flow, reporting and recording. Traceability is expected to be maintained. The main data parameter to be monitored is operation status of ICS systems which is done through sampling survey. Additionally, PP manages, entire project database to locate and monitor ICS as in when required. Therefore, there is low likelihood that a poor	The verification team shall interview the staffs of the monitoring team and check the relevant records to confirm whether the data collection procedure and QA/QC procedure have been well implemented.

			flow of required data can be witnessed. Hence, the risk level is medium.	
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7.2 Consideration of materiality in conducting the verification

In line with the Guidelines for Application of materiality in verification, a reasonable level of assurance is defined for the verification of the project by complete verification of all the monitoring records, which was done by the verification team while also doing comparison with the values indicated in the emission reduction spread-sheet.

Some inconsistencies were identified and subsequently findings were raised. These findings are detailed in Appendix 3 and they were successfully closed. Therefore, related identified mistakes as listed in findings in Appendix 3 to this report have been determined to be immaterial. And thus, it is confirmed that there are no material errors, omissions or misstatements and a reasonable level of assurance is established.

Section 8: Desk/ Document review

The verification was performed primarily based on the review of the Monitoring report /01/, emission reduction worksheet /03/ and supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology: GS Technologies and Practices to Displace Decentralized Thermal Energy Consumption (version 3.1). Documents reviewed or referenced during the verification are listed in Appendix 2 below.

Section 9: Verification findings

9.1 Compliance of the monitoring report with the monitoring report form

Means of verification	Comparing the monitoring report /01/ with the monitoring report from provided by GS.
Findings raised	No finding was raised in this context.
Conclusion	EPL's verification team confirms that the monitoring report version 2.2 of 27/10/2025 /01/ has been made and completed with the relevant information as per Gold Standard template version 1.1 of 14/10/2020, which is the latest available version.

9.2 Remaining FARs from Validation or Previous Verification

No FAR has been raised in previous verification.

9.3 Compliance of the project implementation and operation with the registered PDD

Means of verification	As verified during on-site assessment, interview with project proponent, end users and survey data /18/, the audit team confirms the project implementation complies with the project design document /02/. The project includes 11,054 ICS which were commissioned between 05/07/2019 to 04/07/2024. The ICS are distributed to households of Indian states that fall under the Himalayan region. The manufacturing and distribution is done by an organization “Himalayan Rocket Stove”. End users have transferred the ownership of carbon credits via end user agreement with “Himalayan Rocket Stove” /12/. Swiss Carbon Value Ltd. is working as partner with Himalayan Rocket Stove for the sale of carbon credit generated from the project activity /02/. The operational and management structure is verified from document review and interview. EPL audit team has verified 15 ICS households as explained in section 6 to ascertain accuracy of information. EPL confirm the project ICS systems are operating in all samples visited, each ICS has unique identification number which has been provided in the sales receipt cum warranty card and are correct as per project database. The unique identification is also marked in each ICS physically. Along with the serial number, the ICS model, end user name, address, commissioning date etc. had also been noted which were found to be consistent on ground. It is noted that no changes have been observed or identified which may impact the additionality, no addition of component nor extension of technology, no addition nor removal of project site, no change of values of the actual operational parameter relevant to the determination of emission reductions which are within the control of PP; no change has been observed or identified that may impact the scale of the project activity or applicability of baseline and monitoring methodology Gold Standard Technologies and Practices to Displace Decentralized Thermal Energy Consumption (version 3.1) /04/. Although usage rate was found to be more than 90%, but in line with GS usage rate guidelines a conservative value of 75% of the total ICS population have been considered to be in operational condition. This is as per table 1 in Requirements and guidelines: usage rate monitoring /27/, as only mandatory requirements were fulfilled during the monitoring survey. This has been checked by the verification team from document review and also during onsite assessment. This accounts to 8,290 operational ICS and impact on identified SDGs from 01/03/2023 to 04/07/2024 has been taken into consideration.
Findings raised	No finding was raised in this context.
Conclusion	It is EPL’s opinion that the project implementation and operation complies with the project design document.

9.4 Deviations from the Methodology/ Project description

Methodology Deviation	No methodology deviation has been applied.
Assessment	N/A
Project Description Deviation	No project description deviation has been applied.
Assessment	N/A
Deviation Request Applied	No

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Deviation Request Decision	N/A
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9.5 Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	Parameter	Fraction of biomass used during year y for the considered scenario that can be established as non-renewable biomass; f_{NRB}
	Value	90%
	VVB Assessment	This value has been calculated using CDM Tool 30 and was approved and fixed ex-ante at the time of design certification /02/.
	Parameter	CO ₂ emission factor of the fuel that is substituted or reduced; $EF_{b,fuel,CO_2}$
	Value	112 tCO ₂ /TJ
	VVB Assessment	This value is as per 2006 IPCC Guidelines for National Greenhouse Gas Inventories which is in line with the requirements of applied methodology. This was approved and fixed ex-ante at the time of design certification /02/.
	Parameter	Non-CO ₂ emission factor of the fuel that is substituted or reduced; $EF_{b,fuel,non\ CO_2}$
	Value	0
	VVB Assessment	This value has been taken as 0 as no non CO ₂ emissions were determined in baseline scenario. This was approved and fixed ex-ante at the time of design certification /02/.
	Parameter	Net calorific value of fossil fuels used in the baseline scenario; $NCV_{b,fuel}$
	Value	0.0156 TJ/tonne
	VVB Assessment	This value is as per 2006 IPCC Guidelines for National Greenhouse Gas Inventories which is in line with the requirements of applied methodology. This was approved and fixed ex-ante at the time of design certification /02/.
Findings raised	No findings were raised in this context.	
Conclusion	EPL is able to confirm that the Data and parameters fixed ex-ante have been implemented in full compliance with the registered monitoring plan.	

9.6 Data and parameters monitored (other than SDGs)

Means of verification	Parameter/ Unit	P _{b,y} / kg/household/day		
	Description of Parameter	Quantity of fuel that is consumed in baseline scenario (stove serving dual purpose) during year y		
	Value	Equivalent Bukhari Stove HH	2023	Conservative average value of past year KPT (including 2023)
		Eco Mini	38.83	38.83
		Eco 1	39.11	39.11
		Eco 2	53.81	53.81
		Eco 3	68.17	68.17
	Source of data	KPT		
	Verification methods/calculation/measuring frequency	KPT has been conducted to determine the fuel usage. Sample size has been taken as per requirements of the applied methodology /04/. However, to be conservative PP has applied lower baseline fuel consumption values determined during the crediting period renewal registration in ER calculation. The results of the KPT survey has been cross verified using acceptance sampling /10/ during on-site visit as described in section 6 above.		
	Cross check if applicable	N/A		
	Calibration of equipment	Digital Wood Moisture Meter Make: ACETQ; model: WM-101		
		Instrument ID	Date of calibration	Valid till
		DWMOM-01	09/07/2022	08/07/2023
			08/07/2023	07/07/2024
			17/09/2024	16/09/2025
		Digital Weighing Balance Make: Samson; model: SNBK-500		
		Instrument ID	Date of calibration	Valid till
		DWB-01	11/07/2022	10/07/2023
			03/07/2023	02/07/2024

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		05/07/2024	04/07/2025	
		The above information has been cross checked with calibration certificates /26/ of the instruments.		
	Validity of Calibration	The monitoring surveys considered in this monitoring period has been done in the months of March 2023, January 2024, February 2024 and March 2024. Therefore, the instruments were deemed to be calibrated during the monitoring survey.		
	Parameter/ Unit	PP,y / kg/household/day		
	Description of Parameter	Quantity of fuel that is consumed by project stoves in project scenario p during year y		
	Value	Project Stove Model	2023	Wood Consumption
		Eco Mini	21.10	21.66
		Eco 1	21.20	21.94
		Eco 2	30.00	30.00
		Eco 3	31.60	37.00
	Source of data	KPT		
	Verification methods	KPT has been conducted to determine the fuel usage. Sample size has been taken as per requirements of the applied methodology /04/. The results of the KPT survey has been cross verified using acceptance sampling /10/ during on-site visit as described in section 6 above. To be conservative, maximum wood consumption is considered among KPT & Usage Survey to calculate fuel wood savings and subsequent emission reduction calculations. This has been checked by comparing the survey results and checking formulae applied in ER calculation workbook. Since these data were collected during 2023 and monitoring frequency for the parameter is 2 years, therefore these are deemed applicable for the current monitoring period from 01/03/2023 to 04/07/2024.		
	Cross check if applicable	N/A		
	Calibration of equipment	Digital Wood Moisture Meter Make: ACETQ; model: WM-101		

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		Instrument ID	Date of calibration	Valid till
		DWMOM-01	09/07/2022	08/07/2023
			08/07/2023	07/07/2024
			17/09/2024	16/09/2025
		Digital Weighing Balance Make: Samson; model: SNBK-500		
		Instrument ID	Date of calibration	Valid till
		DWB-01	11/07/2022	10/07/2023
			03/07/2023	02/07/2024
			05/07/2024	04/07/2025
		The above information has been cross checked with calibration certificates /26/ of the instruments.		
	Validity of Calibration	The monitoring surveys considered in this monitoring period has been done in the months of March 2023, January 2024, February 2024 and March 2024. Therefore, the instruments were deemed to be calibrated during the monitoring survey.		
	Parameter/ Unit	U _{p,y} / %		
	Description of Parameter	Usage rate in project scenario p during year y		
	Value	75%		
	Source of data	Monitoring survey and GS cookstove usage rate guidelines		
	Verification methods/calculation/measuring frequency	A monitoring survey has been conducted to determine the usage rate. In this survey usage rate of more than 90% was observed. These results have been checked by the verification team using acceptance sampling /10/ during on-site visit as described in section 6 above. However, in accordance with table 1 of GS cookstove usage rate guidelines /27/, since only the mandatory requirements of monitoring survey have been met by PD, the value of this parameter has been capped conservatively at 75%. This is in line with the requirements of the applied methodology. This was checked form document review and also during onsite assessment.		

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		The monitoring surveys conducted by PD has met all the mandatory requirements as per section 2.2 of GS: REQUIREMENTS AND GUIDELINES: USAGE RATE MONITORING. PD has provided survey records and supporting documents, photographs etc. The verification team has checked these records and can confirm that the survey has met all the, mandatory requirements and hence can apply a maximum usage rate of 75%.					
	Cross check if applicable	NA					
	Calibration of equipment	NA					
	Validity of Calibration	NA					
	Parameter/ Unit	N _{p,y} / project technology days					
	Description of Parameter	Project technology-days in the project database for project scenario p through year y					
	Value	Vinta ge	Eco Mini	Eco 1	Eco 2	Eco 3	Total
		01-03-2023 to 31-12-2023	745,119	366,383	121,755	22,420	1,255,677
		01-01-2024 to 04-07-2024	588,716	296,373	95,083	16,980	997,152
		Total	1,333,835	662,756	216,838	39,400	2,252,829
	Source of data	Project database and monitoring survey					
	Verification methods/calculation/measuring frequency	PP's project database has been checked and details of sample beneficiary households have been verified during on-site visit. This data is recorded always during distribution. The project stove is appropriately designed for the Himalayan region, where harsh winter conditions demand efficient space heating and cooking solutions. Since all the states where the project is implemented are a part of Himalayan region, they also have a similar period of peak winter season. Therefore, the project stoves are					

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		most usable during the same period in all the implemented states.	
	Cross check if applicable	NA	
	Calibration of equipment	NA	
	Validity of Calibration	NA	
	Parameter/ Unit	LE _{p,y} / %	
	Description of Parameter	Leakage in project scenario p during year y	
	Value	5%	
	Source of data	Monitoring survey	
	Verification methods/calculation/measuring frequency	A monitoring survey has been conducted where usage of old technologies outside the project boundary has been monitored. Reportings of this monitoring survey has been verified by VVB during the on-site visit via acceptance sampling as described in section 6 above.	
	Cross check if applicable	NA	
	Calibration of equipment	NA	
	Validity of Calibration	NA	
	Parameter/ Unit	Biomass saved / tonnes/year	
	Description of Parameter	Amount of biomass saved in year Y	
	Value	Vintage	Total
		01-03-2023 to 31-12-2023	21,012
		01-01-2024 to 04-07-2024	16,665
		Total	37,677
	Source of data	Monitoring survey	
	Verification methods/calculation/measuring frequency	These values have been determined from the fuel usage data obtained in KPT surveys. The results of these surveys have been verified by the verification team via acceptance sampling during the on-site visit as described in section above.	
	Cross check if applicable	NA	
	Calibration of equipment	NA	
	Validity of Calibration	NA	
	Findings raised	CL 02, CL 03, CL 04, CAR 01, CAR 02 & CAR 06 has been raised and successfully closed in this context as discussed in appendix 03 of this report.	
	Conclusion	EPL is able to confirm that the monitoring has been implemented in full compliance with the registered monitoring plan and all the parameters listed in the registered monitoring plan have been completely and correctly monitored.	

9.7 SDG Impacts monitored

Means of verification	SDG	13: Climate Action
	Description of Indicator	Emission reductions
	Value	42,273 tCO ₂ e
	Source of data	Calculation based on default parameter values as per applied methodology and survey data.
	Verification methods	The monitoring survey results have been cross verified using acceptance sampling during the on-site visit and values of other fixed parameters have been checked against the methodological requirements.
	Cross check if applicable	NA
	SDG	15: Life on land
	Description of Indicator	Tonnes of firewood saved by project stove as compared to traditional stove.
	Value	50,236 tonnes of firewood
	Source of data	Monitoring survey
	Verification methods	These values have been determined from the fuel usage data obtained in KPT surveys. The results of these surveys have been verified by the verification team via acceptance sampling during the on-site visit as described in section above.
	Cross check if applicable	N/A
	SDG	7: Access to affordable and clean energy
	Description of Indicator	Number of Households (HHs) got access to clean and affordable energy
	Value	11,054
	Source of data	Project database and monitoring survey
	Verification methods	The monitoring survey results and details in the project database has been checked using acceptance sampling /10/ during on-site visit.
	Cross check if applicable	N/A
Findings raised	CAR 04 and CAR 05 has been raised and successfully closed in this context as discussed in appendix 3 of this report.	

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Conclusion	EPL is able to confirm that the monitoring has been implemented in full compliance with the registered monitoring plan and all the parameters listed in the registered monitoring plan have been completely and correctly monitored.
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9.8 Implementation of Sampling plan

Means of verification	According to the standard for sampling and survey /10/ and related guidelines /09/ the sampling plan is included in the final version of the registered PDD and needs to be applied accordingly during monitoring. - Sampling method: Simple random sampling method is adopted as the target population are of homogeneous. The sample size is to be determined by the requirement to achieve 90/10 confidence precision in for annual survey as per Sampling and surveys for CDM project activities and programme of activities (version 9). - The registered monitoring plan in section B.7.2 of the registered PD, a minimum of 30 samples from each project technology and each age should be considered. - Data to be collected: - Usage rate of project devices. - Quantity of fuel that is consumed by project stoves in project scenario. - Quantity of fuel that is consumed in baseline scenario. <u>Actual implementation:</u> - Sampling method: The sampling included all households and was randomly sampled from a list of all the ICS system in the project. The target population is 11,054 ICS commissioned between 05/07/2019 to 04/07/2024 are considered during the monitoring period. The sampling frame is homogenous within itself, with respect to service level, established ex-ante baseline, user characteristics and geographic location. - PP has proposed simple random sampling plan using 90/10 as confidence/precision interval for annual monitoring. This is in line with the CDM sampling guideline /09/. The sample size for each parameter is determined following guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0 (EB86, Annex 4) /09/. Although calculated sample size was 68, applying good practice of oversampling PP has considered 176 samples for survey in project households and 150 samples for survey in baseline households. - A minimum of 30 samples for each project technology of each age and a minimum sample size of 30 HH has been considered to perform KPT from the random sample survey. This is in line with the guidance given under the applied methodology GS TPDTEC. - Monitoring survey has been during 01/03/2023 to 31/03/2023 and 14/01/2024 to 27/02/2024.
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	Sample selection: PD has used online random number generator to select random samples from the project population. Therefore, the sample selection is random and representative of entire population. The sample size calculation and sample identification are transparently provided in the monitoring survey report /01/. Hence, VVB confirms that the samples are representative of the entire population as per the standard, and Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0. Data collected: Questionnaire survey form used by surveyors during physical visit to households and a detailed survey data has been provided /19/. Since the relative margin of error obtained is less than 10% for the monitored parameters, relative precision of the data is statistically acceptable and deemed representative of the population. <table><tr><th>Parameter</th><th>Achieved precision</th><th>Remarks</th></tr><tr><td>Usage rate of project cookstoves in year ($U_{p,y}$) for 2023</td><td>6.20%</td><td><10%</td></tr><tr><td>Usage rate of project cookstoves in year ($U_{p,y}$) for 2024</td><td>5.89%</td><td><10%</td></tr></table> The achieved precision is calculated following UNFCCC sampling guideline and the achieved precision for the assessed parameter is below the required 10%, hence the survey results meet the sampling standard requirement.	Parameter	Achieved precision	Remarks	Usage rate of project cookstoves in year ($U_{p,y}$) for 2023	6.20%	<10%	Usage rate of project cookstoves in year ($U_{p,y}$) for 2024	5.89%	<10%
Parameter	Achieved precision	Remarks								
Usage rate of project cookstoves in year ($U_{p,y}$) for 2023	6.20%	<10%								
Usage rate of project cookstoves in year ($U_{p,y}$) for 2024	5.89%	<10%								
Findings raised	No findings have been issued in this context.									
Conclusion	Verification team confirms that the sampling approach applied by PP is in accordance with the PDD including the Guidelines: Sampling and surveys for CDM project activities and programmes of activities (version 04.0) and Standard: Standard for sampling and surveys for CDM project activities and Programme of Activities (version 09.0). The verification took cognizance of §348 of CDM VVS for project activity (version 03.0).									

9.9 Calculation of Baseline emissions

Means of verification	Since in this project activity baseline fuel and project fuel are same, following equation shall be used to directly calculate emission reductions without calculating baseline emissions and project emissions separately, $ER_y = \sum_{b,p} (N_{p,y} * U_{p,y} * P_{p,b,y} * NCV_{b, fuel} * (f_{NRB,b,y} * EF_{fuel, CO2} + EF_{fuel, nonCO2})) - \sum LE_{p,y}$ Where, <table border="1"> <tr> <td>$\sum_{b,p}$</td><td>Sum over all relevant (baseline b/project p) couples</td></tr> </table>	$\sum_{b,p}$	Sum over all relevant (baseline b/project p) couples
$\sum_{b,p}$	Sum over all relevant (baseline b/project p) couples		

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	$N_{p,y}$	Cumulative number of project technology-days included in the project database for project scenario p against baseline scenario b in year y; (11,054 total ICS for this MP)
	$U_{p,y}$	Cumulative usage rate for technologies in project scenario p in year y, based on cumulative adoption rate and drop off rate revealed by usage surveys (fraction); (75%)
	$P_{p,b,y}$	Specific fuel savings for an individual technology of project p against an individual technology of baseline b in year y, in tonnes/day, as derived from the statistical analysis of the data collected from the field tests; $P_{p,b,y} = (P_{b,y} - P_{p,y})$ For Eco Mini, $P_{p,b,y} = 20.93$ tonnes/day Eco 1, $P_{p,b,y} = 21.41$ tonnes/day Eco 2, $P_{p,b,y} = 30.4$ tonnes/day Eco 3, $P_{p,b,y} = 39.29$ tonnes/day
	$f_{NRB,b,y}$	Fraction of biomass used in year y for baseline scenario b that can be established as non-renewable biomass (90%)
	$NCV_{b,fuel}$	Net calorific value of the fuel that is substituted or reduced (IPCC default for wood fuel, 0.0156 TJ/ton)
	$EF_{b,fuel,CO2}$	CO ₂ emission factor of the fuel that is substituted or reduced; (112 tCO ₂ /TJ for Wood)
	$EF_{b,fuel,nonCO2}$	Non-CO ₂ emission factor of the fuel that is reduced; (0)
	$LE_{p,y}$	Leakage for project scenario p in year y (5%)
Using the equation and values above total emission reduction for the monitoring period has been calculated to be 42,273 tCO ₂ e.		
Findings raised	No finding was raised in this context.	
Conclusion	EPL verification team confirms that the emissions reductions have been appropriately calculated and are consistent with site visit observations, the applied methodology and registered PDD.	

9.10 Calculation of Project emissions

Means of verification	The algorithm in applied methodology directly calculates emission reductions without calculating project emissions separately.
Findings raised	No finding was raised in this context.
Conclusion	EPL verification team confirms that the MR correctly depicts project emissions which is consistent with the applied methodology.

9.11 Calculation of Leakage emissions

Means of verification	A monitoring survey has been conducted where usage of old technologies outside the project boundary has been monitored. Reportings of this monitoring survey has been verified by VVB during the on-site visit via acceptance sampling as described in section 6 above. Therefore, leakage has been calculated as 5% of baseline emissions.
Findings raised	CAR 06 was raised and closed successfully in this context as discussed in appendix 3 of this report.
Conclusion	EPL confirms that the leakage emissions have been considered in accordance with methods described in the registered PDD and the applied methodology.

9.12 Calculation of net benefits/direct calculation of each SDG impact

Means of verification	The following has been checked via document review and on-site interviews. SDG 13: Climate Action The emission reductions have been calculated in accordance with the requirements of the applied methodology, registered PDD as described in section 9.9 above, and they have been correctly reported in the monitoring report. Emission reductions achieved during the monitoring period 01/03/2023 to 04/07/2024 is 42,273 tCO₂e. SDG 7: Access to affordable and clean energy Under the project activity, a total of 11,054 ICS has been distributed. The proportion of ICS that was found to be operational during the current monitoring period is 75%. This accounts to total ICS being used in the beneficiary HHs. Hence, 8,290 HHs have been considered to have access to clean energy technology during the monitoring period. SDG 15: Life on land The project activity has saved a total of 30,194 tones of firewood during the monitoring period. This value has been calculated from firewood usage in project and baseline scenario determined from the KPTs and usage rate of the project stoves ($U_{p,y}$). Calculation method for this is in line with the registered monitoring plan in the VPA-DD.
Findings raised	CAR 02 & CAR 05 were raised and closed successfully in this context as discussed in appendix 3 of this report.
Conclusion	The data presented in the monitoring report /01/ and survey data /18/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring data. Sufficient evidences were presented and verified by EPL for the reported SDG benefits as listed above.

9.13 Comparison of actual SDG impacts with estimates in registered PDD

Means of verification	The following have been assessed during document review and on-site interviews.		
	There are differences between SDG benefits for achieved during the monitoring period and benefits estimated in the registered PDD.		
	SDG impact	Value estimated in registered PD	Value achieved in the MP under consideration
	SDG 13 (Emission reductions)	262,560 tCO ₂ e	42,273 tCO ₂ e
	SDG 7 (Proportion of households with access to clean energy technology)	170,278 stoves	8,292 stoves
Findings raised	SDG 15 (Tonnes of firewood saved by project stove as compared to traditional stove)	254,922 tonnes	30,194 tonnes
	CAR 08 was raised and successfully closed as discussed in appendix 3 of this report.		
Conclusion	There is a difference between ERs estimated in PDD and actual ERs achieved in the current monitoring period. This difference is due to the fact that the total number of stoves distributed is far less than the predicted number for ex-ante calculations in the registered PDD. The data presented in the monitoring report /01/ and emission reduction worksheet /03/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Sufficient evidences were presented and verified by EPL for the reported SDG benefits as listed above.		

Section 10: Safeguarding Principles Reporting

Means of verification	No mitigation measures were included in the registered PDD for any of the safeguarding principle. So, no specific information on any key indicator have been verified during the monitoring period. No questions regarding safeguarding principles assessment were answered “potentially” and there were no requirements which call for regular re-assessment /02/.
Findings raised	No finding was raised in this context.
Conclusion	The project activity, as discussed in the PDD and MR, does not contravene GS safeguarding principles. All the required information has been reported and the project is in alignment with these principles.

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Section 11: Stakeholder input and grievance mechanism

Means of verification	As per records made available to the verification team and discussion with end users, there was no grievance received during this monitoring period. It is also understood, that all the ICS considered for each VPA are in early years of their operation during the current monitoring period, they are highly efficient with long life and are expected not to have any issue during the warranty period of first two years. The PP have kept grievance register in it's office. Register copies have been verified. PP has also provided all the project beneficiaries with an installation card which has contact to connect in case of any issues with the project devices. Further distribution partners have their extended team in project area where the ICS are disseminated and they take up any complain related to usage & operation of ICS. Also, the distribution partners visit villages at regular intervals.
Findings raised	CL 01 was raised and successfully closed in this context as discussed in appendix 3 of this report.
Conclusion	It is EPL's opinion that PP has followed appropriate measures in accordance with the registered PDD to collect and address any grievances that the ICS users might have.

Section 12: Verification Opinion and Reporting

Swiss Carbon Value Ltd. i.e the Project Developer is responsible for the preparation and fair presentation of the GHG statement in accordance with GS4GG criteria.

EcoLance Private Limited (EPL) is responsible for expressing an opinion on the GHG statement based on the verification in line with GS4GG criteria.

EPL has performed the 2nd periodic verification of the project activity "Himalayan Rocket Stove Project in India" with GS IDs: GS 10797.

The verification team assigned by the VVB concludes that the project activity as described in the final PDD (version 06 of 01/02/2023) /02/ and the monitoring report (version 2.2 dated 27/10/2025) /01/, meets all relevant GS4GG requirements for project activity and UNFCCC requirements. The verification has been conducted in-line with the GS4GG requirements /05/.

Verification methodology and process:

The verification team has conducted thorough review as per GS4GG, UNFCCC and EPL's procedures and requirements.

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The project activity was correctly implemented as per the selected monitoring methodology and registered PDD /02/. Through document review and on-site visit assessment, the verification team confirms that the project correctly applies the approved baseline and monitoring methodology “GS Technologies and Practices to Displace Decentralized Thermal Energy Consumption”, version 3.1. With replacement of firewood based conventional cooking stoves with improved cookstoves, the project results in reduction of CO₂ emissions that are real measurable and giving long-term benefits to the mitigation of climate change. It is demonstrated that the project is not a likely conventional scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity.

The monitoring plan provides for the monitoring of the project activity’s emission reductions and of the SDG indicators. The monitoring arrangements described in the monitoring plan are feasible within the project design and it is EPL’s opinion that the project participants are able to implement the monitoring plan. The total emission reductions achieved from the project activity is 42,273 tCO₂e during the monitoring period under consideration.

Section 13: Certification Statement

It is EPL’s opinion that the GHG emission reductions stated in the monitoring report, version 2.2 dated 27/10/2025 for project activity with GS IDs: GS 10797 for period 01/03/2023 to 04/07/2024 (Inclusive of both the dates) are fairly stated. The GHG emission reductions were calculated correctly based on the approved monitoring methodology, GS Technologies and Practices to Displace Decentralized Thermal Energy Consumption version 3.1. Hence, EPL is able to certify that the emission reductions from the project activity as mentioned above during the monitoring period 01/03/2023 to 04/07/2024 (inclusive of both the dates) amounts to 42,273 tCO₂e.

Verified Emission Reductions (GS VERs)

Monitoring Period Vintage	Emission reductions (tCO ₂ e)
01/03/2023 to 31/12/2023	23,580
01/01/2024 to 04/07/2024	18,693
Total	42,273

Appendix 1: Abbreviations

Abbreviations	Full texts
CDM	Clean Development Mechanism
CAR	Corrective Action Request
CL	Clarification Request
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
DR	Document review
VVB	Designated Operational Entities
DVR	Draft Validation Report
EB	CDM Executive Board
EF	Emission Factor
EI	External individual
EPL	EcoLance Private Limited
ER	Emission Reduction
FAR	Forward Action Request
FVR	Final validation Report
FSR	Feasibility Study Report
GHG	Greenhouse gas(es)
GSF	Gold standard Foundation
GS4GG	Gold standard for Global Goals
IPCC	Intergovernmental Panel on Climate Change
IR	Internal resource
MW	Mega Watt
MWh	Mega Watt hours
PDD	Project Design Document
PP	Project Participant
OSV	On Site Visit
QC/QA	Quality control /Quality assurance
RET	Renewable Energy Technician
SS	Sectoral Scope
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VER	Verified Emission Reduction
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

Appendix 2: List of documents reviewed

No.	Author	Title	References to the document	Provider
/1/	Swiss Carbon Value Ltd.	Monitoring report for the project activity “Himalayan Rocket Stove Project in India” covering monitoring period from 01/03/2023 to 04/07/2024.	Version 01 of 28/11/2024; Version 02 of 30/04/2025; Version 2.1 of 07/07/2025 Version 2.2 of 27/10/2025	PD
/2/	Swiss Carbon Value Ltd.	Final PDD for the project activity “Himalayan Rocket Stove Project in India”	Version 06 of 01/02/2023	Publicly available
/3/	Swiss Carbon Value Ltd.	(a) 10797_MP_2_CP_1_ER_Ver01_28.11.2024 (b) 10797_MP_2_CP_1_ER_Ver02_30.04.2025 (c) 10797_MP_2_CP_1_ER_Ver02.2_27.10.2025	--	PD
/4/	Gold Standard	Technologies and Practices to Displace Decentralized Thermal Energy Consumption	Version 3.1	Publicly available
/05/	Gold Standard	Gold Standard for the Global Goals Principles & Requirements	Version 1.2 of 23/10/2019	Publicly available
/06/	Gold Standard	Gold Standard for the Global Goals CS Activity Requirements	Version 1.2 of October 2019	Publicly available
/07/	4K Earth Science Private Limited	Validation report for the project “Himalayan Rocket Stove Project in India”.	Version 05 of 01/02/2023	Publicly available
/08/	UNFCCC	CDM validation and verification standard	Version 03	Publicly available
/09/	UNFCCC	Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities	Ver. 4.0 (EB86, Annex 4)	Publicly available
/10/	UNFCCC	Standard for Sampling and surveys for CDM project activities and programmes of activities	Version 09	Publicly available
/11/	UNFCCC	Guideline: Application of materiality in verifications	Version 2	Publicly available
/12/	Himalayan Rocket Stove	Sample copies of end user agreement/warranty cards.	--	PD
/13/	Himalayan Rocket Stove	Grievance records	Customer issues 2019 to 2024; Grievance redressal policy	PD
/14/	Swiss Carbon Value Ltd.	Monitoring report for the project activity “Himalayan Rocket Stove Project in India” covering monitoring period from 08/06/2021 to 28/02/2023.	Version 5.1 of 19/02/2025	

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/15/	Applus Certification	Verification report for the project activity “Himalayan Rocket Stove Project in India” covering monitoring period from 08/06/2021 to 28/02/2023	Version 3.2 of 26/03/2025	
/16/	Himalayan Rocket Stove	Eco mini – shelf life and technical specification Eco 1 – shelf life and technical specification Eco 2 – shelf life and technical specification Eco 3 – shelf life and technical specification		PD
/17/	Swiss Carbon Value Ltd.	Training records for monitoring survey	Orientation training for field enumerators for the surveying of the Gold Standard for Global Goals (GS4GG) projects	PD
/18/	Swiss Carbon Value Ltd.	Baseline and project survey data sheets	- Baseline Survey 2023_16.04.2025; - Baseline Survey 2024_16.04.2025; - Project Survey 2023_16.04.2025; - Project Survey-2024_16.04.2025	PD
/19/	VNV Advisory	Monitoring survey records	- Baseline KPT form - Project KPT form	PD
/20/	UNFCCC	UNFCCC website for project activities and programme of activities https://cdm.unfccc.int/Projects/projsearch.html	--	Publicly available
/21/	Gold Standard	Gold Standard Registry: https://registry.goldstandard.org/projects?q=&page=1	--	Publicly available
/22/	VERRA	VERRA registry for VCS Projects: https://registry.terra.org/app/search/VCS	--	Publicly available
/23/	GCC	Global Carbon Council: GCC Project Portal https://projects.globalcarboncouncil.com/pages/gcc_home	--	Publicly available
/24/	Gold standard	Template guide, Monitoring report.	Version 1.1 of 14/10/2020	Publicly available
/25/	Gold standard	Validation and verification standard.	Version 1 of 06/03/2023	Publicly available
/26/	a. Micro Technology b. Calyss	a. Moisture meter calibration certificates; dated 09/07/2022, 08/07/2023, 18/09/2024. b. Weighing scale calibration certificates; dated 13/07/2022, 05/07/2023,	--	PD
/27/	Gold Standard	Requirements and guidelines: usage rate monitoring	Version 02 of 27/10/2020	Publicly available
/28/	Himalayan Rocket Stove	a. Telephonic verification record for 2023 b. Telephonic verification record for 2024	--	PD

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Appendix 3: List of Findings raised (CAR, CL, FAR)

Table 1. Remaining FAR from Previous verification and/or validation

FAR ID	00	Section no.		Date: DD/MM/YYYY
Description of FAR				
Not Applicable				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
VVB's assessment				Date: DD/MM/YYYY

Table 2. CL from this verification

CL ID	01	Section no.		Date: 04/02/2025
Description of CL				
PP is requested to provide following documents:				
1. Carbon waiver from project beneficiaries (for 10 samples) showing the ownership of claimed carbon credits. 2. Copies of filled out forms of usage survey and KPTs. 3. Lifetime test reports for the stoves. 4. Grievance redressal policy and grievance records. 5. Training records of monitoring surveyor trainings, repair and maintenance trainings conducted during the monitoring period. 6. Sales records to prove the sale of 11,054 total stoves linking end-users and Unique IDs mentioned in the stove database in the ER sheet.				
Project participant response (1st round)				Date: 30/04/2025
PP has shared the following documents:				
1. Carbon wavier forms of project beneficiary has been shared which included clear carbon credit ownership clauses. 2. Usage survey and KPT survey forms has been shared along with the responses. 3. Lifetime of each stove is 20 years as per the manufacturer specification and same has been shared. 4. Project follows a robust Grievance redressal mechanism and records has been shared along with the responses. 5. Training record has been shared. 6. Sales record with unique IDs has been shared for all stoves operational during the given monitoring period.				
Documentation provided by project participant				
1. Warranty cards for carbon waiver. 2. Copies of filled out forms of usage survey and KPTs. 3. Lifetime test reports for the stoves. 4. Grievance redressal policy and grievance records. 5. Training records of monitoring surveyor trainings, repair and maintenance trainings conducted during the monitoring period. 6. Sales records to prove the sale of 11,054 total stoves linking end-users and Unique IDs mentioned in the stove database in the ER sheet.				

VVB's assessment (1st round)	Date: 08/05/2025
PP has provided all the requested documents. CL 01 is closed.	

CL ID	02	Section no.	ER sheet	Date: 04/02/2025
Description of CL				
The current monitoring period is from 01/03/2023 – 04/07/2024. It is understood from the OSV that beneficiaries use these stoves during the winter season only and PP has also claimed credits for six months in one particular year. It has been observed in the ER calculations that credits are claimed for the specific periods 01/03/2023 – 31/03/2023, 30/09/2023 – 31/12/2023, 01/01/2024 – 31/03/2024 for all stoves of all type and regions. PP is requested to clarify how they have ensured that all the end users have started to use the stoves on same date and all the users have stopped using the stoves on the same date.				
Project participant response (1st round)				Date: 30/04/2025
The PP has considered the number of days stoves are operational based on the commissioning dates of the stoves. Since, this is an essential requirement to sustain life in the coldest region of Indian Himalayas the PP also ensure that stoves are set up and ready for use before the start of the designated winter periods as per the random telephonic calls. Furthermore, based on the results of the survey, all users have confirmed that they begin using the stoves at the onset of the winter season. Although usage rate is found to be 100% however, in line with the usage rate guideline the usage rate has been capped to 75% which covers any such rare situations, wherein there is a delay of stove usage for a few days in the beginning of winter season. However, there may also be the scenario, wherein the stoves are operational for a few days after the winter season which anyhow is not accounted for and it ultimately balances the net operational days. However, in the emission reduction calculations, we have taken a conservative approach by applying the usage rate of 75% to ensure conservativeness in the emissions reduction quantification.				
Documentation provided by project participant				
1. Usage rate survey				
VVB's assessment (1st round)				Date: 08/05/2025
PP has described that they have enquired about the usage period of the ICS with the beneficiaries. They have used a conservative usage rate as compared to the achieved survey results in line with GS usage rate guidelines. Therefore, the usage rate used for the ER calculations has been deemed acceptable by the verification team. CL 02 is closed.				

CL ID	03	Section no.	D.2	Date: 04/02/2025
Description of CL				
Monitoring frequency for the parameter $U_{p,y}$ is annual and the monitoring period is from 01/03/2023 – 04/07/2024 which is more than one year. PP is requested to clarify how one value from a single usage survey can be used for this whole monitoring period which spans for more than one year.				
Project participant response (1st round)				Date: 30/04/2025
PP is submitting the usage rate survey conducted in the year 2023 and 2024 which covers the complete monitoring period 01/03/2023 – 04/07/2024.				
Documentation provided by project participant				
Usage rate survey of 2023 and 2024				
VVB's assessment (1st round)				Date: 08/05/2025
PP has submitted data for two monitoring surveys which suffice the annual measurement requirement of the parameter $U_{p,y}$. CL 03 is closed.				

CL ID	04	Section no.	ER sheet	Date: 04/02/2025
Description of CL				
In the ER calculation sheet, PP is requested to show the calculation				
1. Arrive at the applied value of parameter Up,y. 2. Arrive at wood consumption values for the year 2023.				
Project participant response (1st round)				Date: 30/04/2025
1. It is to be noted that an annual usage rate survey has been conducted for the project activity and based on the same 100% usage rate is confirmed. However, as per the “Requirements and Guidelines: Usage Rate and Monitoring” document version 2.0 published by Gold Standard dated 27/10/2020, as per table 1 under para 2.1.1, the project activity is falling under the “mandatory level” as the project activity meets all the monitoring criteria as mentioned in table 1 of the guideline document. Therefore, the default value of 75% usage rate has been used for the ER calculations conservatively. Also, a footnote regarding the same has been added in the ER sheet and in section D.2 of the MR. 2. ER sheet version 2 has been updated to represent and link the source of wood consumption values (KPT Results) for the year 2023.				
Documentation provided by project participant				
1. ER Sheet version 2				
VVB’s assessment (1st round)				Date: 08/05/2025
1. PP has added source of the usage rate value in ER sheet and section D.2 of the MR. 2. PP has linked the calculations related to wood consumption value in the ER sheet.				
CL 04 is closed.				

CL ID	05	Section no.		Date: 04/02/2025
Description of CL				
PP is requested to clarify how they have identified which household would qualify to be considered under a particular type of project stove for the baseline KPT.				
Project participant response (1st round)				Date: 30/04/2025
PP has followed the simple approach by keeping in mind the space heating requirement of each household. As per the space dimension, the PP has developed 4 different types of stove models suitable for different room sizes. The room size range for the different models are given below:				
• Eco mini model- from 8X14 (minimum) to 14x20 (maximum) • Eco-1 model- from 8x8 (minimum) to 15x18 (maximum) • Eco-2 model- from 12x12 (minimum) to 14x18 (maximum) • Eco-3 model- from 20x22 (minimum) to 24x26 (maximum)				
Since the traditional Bukhari stoves are used in the households of the Himalayan region mainly for the space heating purpose and cooking, therefore the room size/space dimensions of the households becomes an important parameter and this was recorded during the baseline survey which helps in comparing the wood consumption for the baseline Bukhari stoves and project stoves. Therefore, similar baseline Bukhari households in the Himalayan region need to be approached to take permission for performing the KPT and stove benefit demonstrations.				
Documentation provided by project participant				
1. KPT database (Baseline and Project Households)				

VVB's assessment (1st round)	Date: 08/05/2025
PP has described that these project ICS are mainly used for space heating which depends on size of the rooms in a household. Sizes are recorded by PP during the surveys and then accordingly they are compared to a particular type of project stove with similar capacity. This approach is deemed to be logical and hence has been accepted by the verification team. CL 05 is closed.	

Table 3. CAR from this verification

CAR ID	01	Section no.	D.2	Date: 04/02/2025
Description of CAR				
1. For parameter $P_{b,y}$, PP is requested to also include numerical values which are actually used in ER calculations. 2. For parameter $P_{p,y}$, PP is requested to also include numerical values which are actually used in ER calculations.				
Project participant response (1st round)				Date: 30/04/2025
1. For parameter $P_{b,y}$, PP has included actual numerical values used in ER calculations. 2. For parameter $P_{p,y}$, PP has included actual numerical values used in ER calculations.				
Documentation provided by project participant				
1. MR version 02				
VVB's assessment (1st round)				Date: 08/05/2025
1. PP has included used values of parameter $P_{b,y}$ in section D.2 of the MR. 2. PP has included used values of parameter $P_{p,y}$ in section D.2 of the MR. CAR 01 is closed.				

CAR ID	02	Section no.	D.2	Date: 04/02/2025
Description of CAR				
In section D.2 of the MR, PP is requested to correct the values in table for parameter "Biomass Saved" in line with ER sheet.				
Project participant response (1st round)				Date: 30/04/2025
Section D.2 of the MR version 02 has been updated in-line with the updated ER sheet.				
Documentation provided by project participant				
1. MR version02				
VVB's assessment (1st round)				Date: 08/05/2025
PP has updated the values of the parameter "biomass saved" in line with ER sheet in the updated MR. CAR 02 is closed.				

CAR ID	03	Section no.	D.3	Date: 04/02/2025
Description of CAR				
In section D.3 of the MR, SDG values from last monitoring period has not been mentioned. PP is requested to correct the same.				
Project participant response (1st round)				Date: 30/04/2025
The Section D.3 is now updated in the MR as per the approved performance review-1.				
Documentation provided by project participant				
1. MR Version 02				

VVB's assessment (1st round)	Date: 08/05/2025
PP has now updated the section D.3 of MR with SDG values from last monitoring. CAR 03 is closed.	

CAR ID	04	Section no.	E.1	Date: 04/02/2025
Description of CAR				
Under section E.1 of the MR values mentioned in the table for SDG 15 are not in line with the ER sheet.				
Project participant response (1st round)				Date: 30/04/2025
Section E.1 of the MR version 02 has now been updated in accordance with the ER sheet version 02.				
Documentation provided by project participant				
1. MR Version 02 2. ER sheet version 02				
VVB's assessment (1st round)				Date: 08/05/2025
Section E.1 of the MR has been updated with correct values for SDG 15 in line with ER sheet. CAR 04 is closed.				

CAR ID	05	Section no.	E.2	Date: 04/02/2025
Description of CAR				
Under section E.2 of the MR 1. Values mentioned in the table for SDG 13 are not in line with the ER sheet. 2. Values mentioned in the table for SDG 15 are not in line with the ER sheet.				
Project participant response (1st round)				Date: 30/04/2025
Section E.2 of the MR version 02 has been updated to add the followings: 1. Values for SDG 13 is now updated in line with the ER sheet. 2. Values for SDG 15 is now updated in line with the ER sheet.				
Documentation provided by project participant				
1. MR version 02 2. ER sheet version 02				
VVB's assessment (1st round)				Date: 08/05/2025
1. Values mentioned in the table for SDG 13 in section E.2 of the MR have been updated to be in line with the ER sheet. 2. Values mentioned in the table for SDG 15 in section E.2 of the MR have been updated to be in line with the ER sheet. CAR 05 is closed.				

CAR ID	06	Section no.	E.3	Date: 04/02/2025
Description of CAR				
Under section E.3 of the MR values mentioned in the table for leakage are not in line with the ER sheet.				
Project participant response (1st round)				Date: 30/04/2025
Section E.3 of the MR has now been updated in line with the updated ER sheet.				
Documentation provided by project participant				

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1. MR version 02	
VVB's assessment (1st round)	Date: 08/05/2025
Under section E.3 of the MR values mentioned in the table for leakage have been updated to be in line with the ER sheet. CAR 06 is closed.	

CAR ID	07	Section no.	E.4	Date: 04/02/2025
Description of CAR				
Under section E.4 of the MR, values mentioned in the table are not consistent with ER sheet.				
Project participant response (1st round)				Date: 30/04/2025
Section E.4 of the MR has now been updated in line with the updated ER sheet.				
Documentation provided by project participant				
2. MR version 02				
VVB's assessment (1st round)				Date: 08/05/2025
Values in the table under section E.4 of the MR has been updated in line with the ER sheet. CAR 07 is closed.				

CAR ID	08	Section no.	E.5	Date: 04/02/2025
Description of CAR				
In the table under section E.5 of the MR,				
1. Values mentioned as actual achievements during the current MP are not consistent with the ER sheet.				
2. As per table 1 of section A.1 in the registered PDD, total number of all four models of stove planned for distribution over the period 2019 – 2024 is 138,598. But in the MR ex-ante estimation of SDG 7 for the current MP is mentioned as 170,278.				
PP is requested to review and correct these.				
Project participant response (1st round)				Date: 30/04/2025
Table under section E.5 of the MR to correct the following:				
1. Values mentioned as actual achievements during the current MP are now made consistent with the ER sheet.				
2. The ex-ante projection for the number of stoves has been revised downward due to the impact of the COVID-19 pandemic during the project implementation period. As a result, the actual number of stoves installed is lower than the original projection. The SDG 7 values have been updated in the revised Monitoring Report (MR) in accordance with the registered Gold Standard Project Design Document (PDD).				
Documentation provided by project participant				
1. ER sheet version 02				
VVB's assessment (1st round)				Date: 08/05/2025
1. Under section E.5 of the MR, actual achievement values have been updated in line with ER sheet.				
2. PD has described that they have calculated a projected value of the parameter keeping in mind the projects active working days during the MP. This has been accepted by the verification team.				
CAR 08 is closed.				

CAR ID	09	Section no.	ER sheet	Date: 04/02/2025
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Description of CAR	
In the end user database provided in the ER sheet, "NE" is mentioned as a state. PD is requested to clarify which state they are referring to as NE and correct the database by mentioning the actual name of states of project beneficiaries.	
Project participant response (1st round)	Date: 30/04/2025
ER Sheet has been updated to replace region with the states. Please refer master sheet for your reference.	
Documentation provided by project participant	
2. ER sheet version 02	
VVB's assessment (1st round)	Date: 08/05/2025
PD has updated the database in the ER sheet with actual names of the states. CAR 09 is closed.	

Appendix 4: Competency of Audit and TR team



Certificate of Appointment

<< DEBARSHI DAS >>

The qualification and appointment are done following the requirements of
ECOLANCE PRIVATE LIMITED (EPL/PR/5)

Standard/ Scheme			
☒ VCS	☐ CCBS	☒ GS4GG	☒ GCC
☐ SD Vista	☐ Social Carbon	☐ Plan Vivo	☐ Plastic Standard
☐ CerCarbono	☐ ISO 14064-1: 2018		

Role			
☒ Auditor	☒ Team Leader	☐ Reviewer	☒ Technical Expert
☐ Financial Expert	☐ Trainee	☐ Local Expert	☐ GHG Verifier [Applicable to 14064-1: 2018]

Sectoral Scopes	
☒ Energy Industries (Renewable/Non-Renewable)	
☒ Energy Demand	
☐ Waste Handling and Disposal	
☐ Forestry and Other Land Use	
☐ Agriculture	
☐ Livestock and Manure	
☐ General [Applicable to 14064-1: 2018]	

Certificate No	EPL/CER/DD/3
Date	01/01/2025
Validity	31/12/2025

Authorized by	Rekha Menon
Designation	Director
	

EPL/PR/5

ECOLANCE PRIVATE LIMITED

Version 2

12-02-2024

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Certificate of Appointment

<< ESWAR MURTY >>

The qualification and appointment are done following the requirements of
ECOLANCE PRIVATE LIMITED (EPL/PR/5)

Standard/ Scheme			
☒ VCS	☒ CCBS	☒ GS4GG	☒ GCC
☐ SD Vista	☒ Social Carbon	☐ Plan Vivo	☐ Plastic Standard
☐ CerCarbono	☒ ISO 14064-1: 2018		

Role			
☒ Auditor	☒ Team Leader	☒ Reviewer	☒ Technical Expert
☐ Financial Expert	☐ Trainee	☐ Local Expert	☒ GHG Verifier [Applicable to 14064-1: 2018]

Sectoral Scopes	
☒ Energy Industries (Renewable/Non-Renewable)	
☒ Energy Demand	
☒ Waste Handling and Disposal	
☐ Forestry and Other Land Use	
☐ Agriculture	
☐ Livestock and Manure	
☒ General [Applicable to 14064-1: 2018]	

Certificate No	EPL/CER/EM/2
Date	15/02/2025
Validity	14/02/2026

Authorized by	Rekha Menon
Designation	Director
	