

**GOLD STANDARD FOR THE GLOBAL GOALS (GS4GG)
REPORT
-
VERIFICATION**



Project Title:	Chanju I Hydro Electric Project
Monitoring Period:	26/07/2022 to 31/03/2025 (inclusive of both dates)
GS project ID:	GS7154
Internal ID:	A+SH_SYST_TQC_GS_VER_4425
Customer:	Project Participant: IA Hydro Energy Private Limited Project Representative: Climera Carbon Private Limited
Date:	25/09/2025
Revision:	03

SUMMARY			
Reference No.	Date <i>(first version)</i>	Version No.	Date <i>(last version)</i>
A+SH_SYST_TQC_GS_VER_4425	28/08/2025	04	25/09/2025
GS4GG Verification			
GS4GG Certified Product <i>(sought):</i>	GS VER		
GS4GG SDG Impact Statement <i>(sought):</i>	Impact Certification		
General Information			
Client	IA Hydro Energy Private Limited Climera Carbon Private Limited		
Project Title	Chanju I Hydro Electric Project		
Project Participants	IA Hydro Energy Private Limited		
Project Representative	Climera Carbon Private Limited		
Project Location	Himachal Pradesh, India		
Contact Person	Mr. Shravan Kumar Goyel		
Monitoring Period:	26/07/2022 to 31/03/2025 (inclusive of both dates)		
GS4GG Version: GS4GG Principles and Requirements 2.1 GS4GG Activity Requirements: RE Activity Requirements, version 1.4 GS Validation and Verification Standard V2.0 Applied Methodology Version: ACM0002: Grid-connected electricity generation from renewable sources – Version 22.0		GS4GG Sectoral Scope: 2 UNFCCC CDM Sectoral Scope: 1 Technical Area: 1.2	
Initial Monitoring Report Version: 01 Date: 19/06/2025		Final Monitoring Report Version: 05 Date: 24/09/2025	
Project Design Document Version: Assessment team checked the GS PDD version 06 Dated 04/03/2025			
Estimated Values for the Monitoring period for all SDG:			
Sustainable Development Goals	SDG Impact	Estimated values for this monitoring period	
SDG 7: Affordable and Clean Energy: Ensure access to affordable, reliable, sustainable and modern energy for all	MWh of renewable energy generated	419,578.51 MWh (980 days)	
	Number of hiring through project activity	05 employment per year	
SDG 8: Decent Work and Economic Growth: substantially reduce the proportion of youth not in employment, education or training	Number of trainings through the project activity	01 training per year	
SDG 13: Take urgent action to combat climate change and its impacts	Emission reductions	373,299 tCO ₂ e (980 days)	

SUMMARY

Actual outcomes achieved for all SDG:

Sustainable Development Goals	SDG Impact	Actual values achieved for this monitoring period
13 Climate Action	Emission Reduction	352,786 tCO ₂ e
7 Affordable and Clean Energy	MWh of renewable energy generated	396,596 MWh
8 Decent Work and Economic Growth	Number of hiring through project activity	03 people employed (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)
	Number of trainings through the project activity	06 No's training

Selected Sustainable Development Goals (SDGs): 7; 8; 13

Verification Summary

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by IA Hydro Energy Private Limited & Climera Carbon Private Limited to perform the 1st periodical verification of 2nd Crediting period for "Chanju I Hydro Electric Project" (Ref. No. GS 7154) applying the methodology ACM0002, Version 22.0 "Grid-connected electricity generation from renewable sources". The audit team of Applus+ Certification has performed the verification activity and respective details are embedded in further section.

The management of Climera Carbon Private Limited are responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

A desk review and an onsite visit interview have been conducted to verify the data submitted in the monitoring report. Applus+ Certification confirms the following have been reviewed:

- a. The GS PDD version 06 including the monitoring plan;
- b. Monitoring report v.1.1 TeFmplate Guidelines;
- c. The applied monitoring methodology;
- d. GS4GG Validation and Verification Standard, version 2.0;
- e. GS4GG guidelines and related Annex.
- f. All information and references relevant to the project activity's resulting in emission reductions.

IA Hydro Energy Private Limited has set-up a grid connected run-of-river hydropower project, located in in the Northern power region and has been conceived for harnessing the power potential of Chanju Nallah, a tributary of Baira nallah and sub tributary of River Ravi, Chamba District of Himachal Pradesh State of India, with GPS coordinates as mentioned in below table. The same was confirmed with google earth images, document review and found to be correct.

Latitude	32°44'14" (32.7372) N to 32°45'43" (32.7619) N
Longitude	76°12'06" (76.2016) E to 76°14'52" (76.2477) E
Powerhouse	32°45'40.0"N 76°12'05.0"E (32.761111, 76.201389)

The project involves the installation of three vertical-axis Francis turbine generating units, each with a capacity of 12 MW, totalling 36 MW of power. These turbines operate with a design head of 236.67 meters and a design discharge of 16.85 cubic meters per second. The diversion barrage creates a reservoir area of approximately 0.017 square kilometres, resulting in a power density of 2,117.64 W/m². The project was fully commissioned on 26/07/2017. The project uses hydro power to generate electricity and the same is exported to Indian grid (hereafter referred to as the Grid) through the sub-station at Kurthala, Himachal Pradesh.

SUMMARY

The report and the annexed verification checklist describe a total of 11 findings which include:

- 02 Corrective Action Requests (CARs),
- 02 Clarification Requests (CLs),
- 02 Forward Action Requests (FARs),
- 06 Previously raised Forward Action Requests (FARs).

Applus+ Certification confirms that the project is implemented in accordance with the validated GS4GG PDD. The monitoring plan complies with the applied methodology ACM0002 Version 22.0 and the GS4GG principles and requirements version 2.1, the monitoring has been carried out in accordance with the monitoring plan. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information reviewed and evaluated Applus+ Certification confirms that the implementation of the project has resulted in 352,786 tCO₂e emission reductions during period from 26/07/2022 to 31/03/2025 (inclusive of both dates).

ASSESSMENT TEAM

Team Members	Type of Resource ¹	Organization (for Oes)
Lead Auditor (LA), Technical Expert (TE), Country Expert & GS approved auditor: Mr. Ishan Shrivastava	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Auditor in Training (AiT), Technical Expert in Training (TEiT) & Country Expert: Mr. Sarthak Jain	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited (Outsourced entity)
Technical Reviewer/ Technical expert: Mr. David Lubanga	☐ IR ☒ EI ☐ OE	LGAI Technological Center, S.A. (Applus+ Certification)
Note: In line with the Section 6.8 of GS Validation and Verification Standard Version 2.0 dated on 12/11/2024, the VVB hereby discloses that the VVB hereby discloses that the Applus+ Certification had performed design certification of this project with different team members i.e., LA: Mr. Sukanta Das & TE: Mr. Pankaj Kumar, TR: Mr. Denny Xue. RCP Validation of this project with different VVB (VKU Certification Private Limited).		

¹ IR (Internal Resource); EI (External Individual); OE (Outsourced Entity)

ABBREVIATIONS	
ACM	Approved Consolidated Methodology
AM	Approved Methodology
Applus+ LGAI / Applus+	LGAI Technological Center, S.A. (Applus+ Certification)
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CDM VVS Version 03.0	CDM validation and verification standard for project activities, Version 03.0
CER	Certified Emission Reduction
CL / CR	Clarification Request
CM	Combined Margin
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
DNA	Designated National Authority
DOE	Designated Operational Entity
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reduction
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
GS4GG (or GS)	Gold Standard for Global Goals
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-Governmental Organization
SDG	Sustainable Development Goal
TAC	Gold Standard Technical Advisory Committee
OM	Operational Margin
PDD	Project Design Document
PP	Project Participant
UNFCCC	United Nations Framework Convention for Climate Change
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

Table of Content

Contents

1. INTRODUCTION.....	7
1.1 Objective	7
1.2 Scope	7
1.3 Description of the project activity	8
2. METHODOLOGY	9
2.1 Appointment of the assessment team.....	9
2.2 Document review.....	10
2.3 On site assessment and follow up interviews.....	11
2.4 Quality of evidences	13
2.5 Reporting of findings	14
2.6 Internal Quality Control	14
3. VERIFICATION FINDINGS	15
3.1 FARs from Validation / Previous Verification.....	15
3.2 Project Implementation in accordance with the registered Project Design Document	15
3.3 Compliance of the Monitoring Plan with the Monitoring Methodology	18
3.4 Completeness of Monitoring	18
3.5 SDG Outcomes Monitoring.....	21
3.6 Assessment of Data and Calculation of Greenhouse Gas Emission Reductions.	25
3.7 Management and Operational System	26
4. REFERENCE.....	27
5. FINAL VERIFICATION STATEMENT.....	28
Appendix 1: Corrective Action Request/Clarification Request/Forward Action Request resolution table	30
Appendix 2: Audit Team CVs.....	38

1. INTRODUCTION

1.1 Objective

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by IA Hydro Energy Private Limited & Climeria Carbon Private Limited to perform the 1st periodical verification of 2nd Crediting period for “Chanju I Hydro Electric Project” applying the methodology ACM0002 Version 22.0 and GS4GG guidelines. The audit team of Applus+ Certification has performed the verification activity. Gold Standard projects must undergo periodic audits and verification of emission reductions as the basis for issuance of CDM Gold Standard CERs.

The objective of the verification work is to assess the compliance with the requirements of paragraph 62 of the CDM Modalities and Procedures as well as the GS4GG guidelines and relevant Principles and Requirements. According to this assessment Applus+ Certification shall:

- Ensure that the project activity has been implemented and operated as per the GS PDD and that all physical features (technology, project equipment, monitoring and metering equipment) of the project are in place.
- Ensure that the Monitoring Report and other supporting documents provided are complete, verifiable and in accordance with applicable GS4GG Validation and Verification Standard, version 2.0 for the project activities and Gold Standard (i.e., applicable GS4GG requirements).
- Ensure that the actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology.
- Evaluate the data recorded and stored as per the ACM0002, Version 22.0.

1.2 Scope

The verification scope encompasses an independent and objective review and ex-post determination of the monitored reductions in GHG emissions by the VVB. The verification is based on the submitted monitoring report, GS PDD as well as its validation report, the applied monitoring methodology, relevant decisions, GS4GG guideline and any other information and references relevant to the project activity’s resulting emission reductions. These documents are reviewed against the requirements of the GS4GG guideline and relevant Principles and Requirements, as well as their related rules and guidance.

Based on the requirements in the GS4GG Validation and Verification Standard version 2.0 for the project activities as well as the GS4GG guidelines, Applus+ Certification has applied a rule-based approach for the verification of the project. The principles of accuracy, completeness, relevance, reliability and credibility were combined with a conservative approach to establish a traceable and transparent verification opinion.

The verification considers both quantitative and qualitative information on emission reductions. The verification also considers the monitoring of SDG goals as per the requirement of GS4GG guideline.

The verification is not meant to provide any consultancy towards the client. However, stated requests for clarifications, corrective and/or forward actions may provide input for improvement of the monitoring activities.

1.3 Description of the project activity

IA Hydro Energy Private Limited has set-up a grid connected run-of-river hydropower project, located in the Northern power region and has been conceived for harnessing the power potential of Chanju Nallah, a tributary of Baira nallah and sub tributary of River Ravi, Chamba District of Himachal Pradesh State of India, with GPS coordinates as mentioned in below table. The same was confirmed with google earth images, document review and found to be correct.

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The project involves the installation of three vertical-axis Francis turbine generating units, each with a capacity of 12 MW, totalling 36 MW of power. These turbines operate with a design head of 236.67 meters and a design discharge of 16.85 cubic meters per second. The diversion barrage creates a reservoir area of approximately 0.017 square kilometres, resulting in a power density of 2,117.64 W/m². The project was fully commissioned on 26/07/2017. The project uses hydro power to generate electricity and the same is exported to Indian grid (hereafter referred to as the Grid) through the sub-station at Kurthala, Himachal Pradesh.

The project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 139,035 tCO₂e per annum, thereon displacing 156,271.79 MWh/year unit of electricity from the hydro power plants connected to the Indian grid (hereafter referred to as the Grid) through Himachal Pradesh State Electricity Board Ltd., which is mainly dominated by thermal/ fossil fuel-based power plant for the 2nd Crediting period of 26/07/2022 to 25/07/2027 (including both dates).

The purpose of the project activity is to generate electricity and sale to the different State Electricity Load Dispatch Centre of India through Indian Grid. The project activity displaces an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid and thereby has resulted in reduction of the associated CO₂ emissions. The monitoring of emission reduction and sustainable development indicators has been carried out in accordance with respective GS PDD. During monitoring period, the GHG emission reductions achieved from the project activity 352,786 tCO₂e, by generating 396,596 MWh electricity from the Hydro power plant.

2. METHODOLOGY

Applus+ Certification approach to the verification is a two-stage process. In the 1st stage, Applus+ Certification completed a strategic review and risk assessment of the project activities and processes in order to gain a full understanding of:

- Activities associated with all the sources contributing to the project emissions and emission reductions, including leakage if relevant;
- Protocols used to estimate or measure GHG emissions from these sources;
- Collection and handling of data;
- Controls on the collection and handling of data;
- Means of verifying reported data; and
- Compilation of the monitoring report.

Applus+ Certification performed risk-based assessment of the parameters and data collection and handling processes for each of those parameters, describes the verification approach and the sampling plan.

In the 2nd stage, Applus+ Certification verified the implementation of the monitoring plan and the data presented in the Monitoring Report for the period in question. This involved an onsite audit and a desk review of the Monitoring Report. This Verification Report describes the findings of this assessment.

2.1 Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, LGAI Technological Center, S.A. (Applus+ Certification) has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of LGAI Technological Center, S.A. (Applus+ Certification).

The composition of audit team shall be approved by the LGAI Technological Center, S.A. (Applus+ Certification) ensuring that the required skills are covered by the team.

The qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Technical Reviewer (TR).
- Financial Expert (FE)
- Local Support (LS)
- Any of the above-mentioned roles in training (iT, e.g. AiT for auditor in training)

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

Name	Role	SS / TA Coverage	Financial aspect	Host country experience	Onsite Visit
Mr. Ishan Shrivastava	Lead Auditor / Technical Expert /Country expert/ GS Approved Auditor	YES	NA	Yes	Yes
Mr. Sarthak Jain	Auditor in Training /Technical Expert in Training/ Country Expert	YES	NA	YES	Yes
Mr. David Lubanga	Technical Reviewer/ Technical Expert	YES	NA	NA	No

The complete list of CVs is included as Appendix 2 of this report.

2.2 Document review

The Monitoring Report version 01 was submitted to VVB before the verification activities started. The MR was assessed based on all the relevant documents. The aim of the assessment in the desk review was to:

- Verify the completeness of the data and the information presented in the MR;
- Check the compliance of the MR with respect to the monitoring plan depicted in the GS PDD, verify that the applied methodology was carried out. Particular attention to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures of the power plant was checked by the assessment team.
- Evaluate the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.
- Please check reference 4 of this report for detail of the documents checked.

2.3 On site assessment and follow up interviews

In accordance with Section 9.7.2 (e) of GS4GG Validation and Verification Standard version 2.0, to maintain confidentiality of the interviewee's information, the details have been provided in separate file (private) and will be submitted to GS along with final reports.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Sambyal	Himanshu	Manager, Powerhouse In charge, I.A. energy	26/07/2025	Project operation, Q/A and Q/C procedure, Compliance of monitoring plan with monitoring methodology and MR, Employment details, Role in the project activity, Trainings attended	Mr. Ishan Shrivastava and Mr. Sarthak Jain
2.	Pal	Yash	Barrage In charge, I.A. energy			
3.	Kumar	Rajinder	Barrage Civil in charge			
4.	Kumar	Raman	Asst. Electrician			
5.	Pandit	Rajkumar	M. Foreman			
6.	Ram	Shiv	Sr. Engineer			
7.	Mehta	Ankit	Sr. Engineer			
8.	Raj	Kumar	Shift Engineer			
9.	ji	Tilak	Local villager		Local stakeholder grievances, Impact of project on local area	

The details activity done during the Onsite audit is as below:

Onsite visit was conducted by the VVB for this GS verification on 26/07/2025 used standard auditing techniques to verify information and compliance with applicable requirements to the extent possible, to ensure the completeness and credibility of the audit. The Onsite audit was conducted and audit was attended by In-charge of the site as well as consultant. Details of attendees are given below in section D.3. The topics discussed during the Onsite audit are given in below table;

Duration of on-site inspection: 26/07/2025				
No.	Activity performed on-site	Site location	Date	Team member
1.	The verification team conducted visit to the project site to confirm the information and to resolve issues identified in the document review. An on-site assessment was conducted as a part of verification activity and involved: 1) An assessment of the implementation and operation of the CDM	Chanju nallah, Chamba district, Himachal Pradesh, India	26/07/2025	Mr. Ishan Shrivastava and Mr. Sarthak Jain

	project activity as per the registered PDD 2) A review of information flows for generating, aggregating and reporting of the monitoring parameters 3) Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the Monitoring Plan 4) A cross-check between information provided in the MR and data from other sources 5) A check of the monitoring equipment including calibration performance, and observations of monitoring practices against the requirements of the PDD and the applied methodology 6) A review of calculations and assumptions made in determining the GHG data and ERs, and 7) An identification of QA/QC procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters			
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As referred above, the objective of the Onsite assessment was to verify the following issues:

- Confirm the implementation and operation of the project in line with GSPDD: the project activity is implemented as per the registered PDD and there is no change in capacity or design of the project activity since commissioning. Same was confirmed from commissioning certificates, recent site photographs, PPA, interviews with PP/Site in charge and invoices raised by PP towards state utility;
- Confirm the correct implementation of procedures for operations and data collection: during interviews with PP, it was confirmed that implementation of procedures for operations and data collection is in line with GS PDD. Service provider is responsible for the operations, maintenance as well as maintaining other technical data of the project activity. Performance and operation data of Hydro Power project;
- Cross-checked the information provided in the MR documentation with other sources: the information provided in the MR was crosschecked with the commissioning certificates, PPA, calibration certificates and JMRs;

- Checked the monitoring equipment against the requirements of the PDD and the approved methodology, including calibrations, maintenance, etc.: monitoring meters are cross checked with the previous verification reports, interviews with PP, current photographs/videos submitted by PP and calibration is checked with the calibration certificates issued by State Utility authorized third parties;
- Reviewed the calculations and assumptions used to obtain the GHG data and ER: calculation procedures and monthly generation data is checked with JMR and crosschecked with invoices;
- Identified if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters: during interviews with PP, it was confirmed that quality control and quality assurance procedures are in place. Metering arrangements & JMR procedure is defined and controlled by state utility and PP do not have control on it. Assessment team checked all the monthly JMR values as well as crosschecked with the invoices and found that emission reductions are calculated conservatively.

Thus, to verify the implementation of project activity, onsite operation & maintenance, monitoring & management practices; assessment team has conducted onsite visit where interviews with onsite in-charge, O&M team and also had a detail discussion with the PP representative and reviewed third party statutory documents i.e. Commissioning certificates, Power Purchase Agreement, Complete set of JMRs covering monitoring period, Invoice (for cross check of Net electricity supplied to the grid as per revised PDD), training records, O&M schedule, complaint/feedback register and other relevant records.

After site interviews with concerned persons, document reviews & site videos/photographs submitted by PP; assessment team concluded that the project activity is implemented and operated in-line with the GS PDD. There is no change in the project design or operation and monitoring practices at site which can alter the applicability of meth or additionality of the project activity. In addition to the interviews with PP, assessment team have checked the commissioning certificate, PPA and JMRs and found that the project activity is implemented as per the GS PDD, and Monitoring report submitted by the PP for current monitoring period. From review of JMR and invoices assessment team therefore of the opinion that project is implemented as described in the GS PDD and there is no change in monitoring practices as well as all monitoring parameters as envisaged in the PDD. All the monitored values are supported by the evidences i.e. JMRs and found that information provided in the MR is in line with the submitted evidences. Assessment team reviewed all the calibration certificates and found that monitoring meters are calibrated periodically.

2.4 Quality of evidences

Sufficient evidence covering the full verification period in the required frequency is available to verify the figures stated in the final MR Version 05. Specific cross-checks have been done in cases that further sources were available. The monitoring report's figures were checked by the assessment team against the raw data. The data collection system meets the requirements of the monitoring plan as per the methodology.

2.5 Reporting of findings

As an outcome of the verification process, the assessment team can raise different types of findings.

Where a non-conformance arises the assessment team shall raise a Corrective Action Request (CAR). A CAR is issued, where:

- Non-compliance with the monitoring plan or methodology are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;
- Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

The assessment team shall raise a Clarification Request (CL) if information is insufficient or not clear enough to determine whether the applicable CDM/GS requirements have been met.

All CARs /CRs/ FARs raised during verification shall be resolved prior to submitting a request for issuance.

Forward Action Requests (FARs) may be raised during verification for actions where the monitoring and reporting require attention and/or adjustment for the next verification period.

Please refer Appendix 1 of this report. Total numbers of CARs: 02, CLs: 02, FARs: 01, Previously raised FARs: 06, Previously verification FARs: 01 and Performance review FARs :01.

2.6 Internal Quality Control

As a final step of verification, the final documentation including the verification report has to undergo an internal quality control by the Technical Reviewer. Each report has to be finally approved either by the DOE's Technical Manager or the Deputy. This approval process also includes another quality assurance check in terms of Administrative Review. In case one of these two persons is part of the assessment team, the final approval can only be given by the person who is not a part of the assessment team. If the documents have been satisfactorily approved, the Request for Issuance is submitted to the GS Registry along with the relevant documents.

3. **VERIFICATION FINDINGS**

3.1 **FARs from Validation / Previous Verification**

This is 1st periodic verification of 2nd Crediting period for the project activity and 01 FAR is raised during current verification of the project activity and 01 FAR from previous verification and 01 FAR Performance review and 06 FARs from RCP. Detailed assessment can be found in Appendix 1 of this report.

3.2 **Project Implementation in accordance with the registered Project Design Document**

The project activity was fully implemented according to the description presented in the GS PDD. The assessment team confirms, through the Onsite audit that all physical features of the proposed project activity including data collecting systems and storage have been implemented in accordance with the GS PDD.

The technical features of the equipment's have been verified by the assessment team by reviewing following documentation:

- Onsite interviews of O&M personnels
- Technical detail analysis of the Hydro Power plant from the documents submitted by the manufacturer.
- Power Purchase Agreement/Energy generation record for the project activity

Main Technical Parameters of the Implemented project is mentioned as follows:

Parameter	Value
Net head	236.67 m
Type of power house	Surface
Design discharge for individual units	5.62 m ³ /sec
Type of switchgear	132 kV air insulated switchgear
Speed of turbine	750 rpm
Generation voltage	11 kV
Transmission voltage	132 kV
GSU transformer	25/20 MVA 3 phase, 11/132 kV

Assessment team checked the latitude and longitude of the project activity using GPS and also cross checked from the Google earth and found the detail to be correct. The same is defined below:

Longitude : 76°12'06" (76.2016) E to 76°14'52" (76.2477) E

Latitude : 32°44'14" (32.7372) N to 32°45'43" (32.7619) N

Powerhouse Location: 32°45'40.0"N 76°12'05.0"E (32.761111, 76.201389)

Assessment team also checked the locations of the project activity in the GS PDD and found that the geographical coordinates (mentioned above) provided are found to be correct. Thus, locations provided in MR are found in line with revised documents of the project activity.

Assessment team checked the commissioning date of the project activity from the Commissioning certificate issued by the government authority i.e. state utilities and found the same to be appropriate.

The project activity was in normal operational during the monitoring period and the same has been confirmed during interviews with PP and crosschecked from review of JMRs. Power plant is working throughout the monitoring period and same have been conformed from JMR values. No unusual activates observed during the monitoring period and plant was undergone scheduled as well as emergency maintenance as per the recommendation of the manufacturers. No forced breakdown observed and the same is confirmed by the assessment team with the plant log details and JMRs and also confirmed during onsite audit.

Moreover, there were no changes in host country regulations which may impact either baseline or additionality of the project. Thus, assessment team confirms that the project is implemented as per the GS PDD and no change in additionality/baseline is envisaged for the present monitoring period.

The amount of VERs achieved (352,786 tCO₂e) during the present monitoring period is -5.50% less than the estimated value (373,299 tCO₂e) for the monitoring period. The rationale behind the lower ER is monitoring period is seasonal hydrological variations affecting river inflows and head levels. Further, VVB team confirmed that decrease in actual ER w.r.t to estimated ER doesn't adversely effect on project IRR.

Compliance of the Monitoring Plan with the Monitoring Methodology:

The verification team is able to confirm that the monitoring plan is in accordance with the approved methodology ACM0002 Version 22.0, applied by the proposed GS project activity.

During Assessment it was found that the recording frequency for monitoring parameter EG_{aux} (MWh) was changed from hourly bases to daily basis, which was checked and found acceptable.

No other deviation, correction or permanent change to the current monitoring plan has been requested or observed.

Materiality adopted in Verification:

Consideration of materiality in planning the verification

No.	Risk that would lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk levels	Justification	
1	Human errors: Readings from Meters (if not automatic)	LOW	Human error is likely to occur if the monitoring personnel are not trained well or inexperienced in data recording procedures and monitoring processes.	All the personnels are well trained to monitor and collect data and thus risk associated with Human error is minimized. Assessment team checked the training records to confirm that all the personal are well trained to handle the activities related to monitoring. Assessment team checked the training records for the complete monitoring period and confirm that the

No.	Risk that would lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk levels	Justification	
				personnel are well trained to monitor and collect data for the project activity.
2	Human error: Quantification of emission reduction	LOW	Use of spread sheets without adequate data control, changes/updates, version tracking, traceability and security	All the energy statement i.e. Daily generation Records (DGR), JMR sheets and the invoices for the complete monitoring period are checked and thus the assessment team confirms that the ER value is conservative and correct.

Consideration of materiality in conducting the verification

In line with Guidelines for Application of materiality in verifications Version 02.0, the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. Its invoices follow the paper trail back to the raw data such as meter reading records and invoices.

Emission Reductions (tCO ₂ e)/year	500,000 or more	300,000 to 500,000	300,000 or less	Micro Scale projects
Materiality Threshold para (9.6.3) of Validation-and-Verification-Standard version 2.0	0.5%	1.0%	2.0%	10.0%

The applicable materiality threshold is 2% for project activity as achieved ERs were lower than 300,000 tCO₂e/year as per requirement of Validation-and-Verification-Standard, version 2.0.

Particulars / Monitoring Report	MR Version (Initial)	MR Version (Revised/Final)
Emission Reductions Achieved (tCO ₂ e) in this monitoring period	356,750 tCO ₂ e	352,786 tCO ₂ e
Applicable Threshold (%) as per para 9.6.3 of Validation-and-Verification-Standard version 2.0	2.0%	2.0%

The verification team has identified the impact of errors observed and those were corrected by PP during verification for all monitoring parameters at the individual level. As thoroughly checked by the VVB, it was found that there are no material errors, overestimation of ER, omission, or misstatement for this project activity.

3.3 Compliance of the Monitoring Plan with the Monitoring Methodology

The verification team is able to confirm that the monitoring plan is in accordance with the approved methodology ACM0002 Version 22.0, applied by the proposed GS project activity.

3.4 Completeness of Monitoring

The monitoring has been carried out in accordance with the monitoring plan contained in the transitional document. All parameters were monitored and determined as per the monitoring plan of the GS PDD as follows:

a. Data and parameters fixed ex ante or at renewable of crediting period

$EF_{grid,OM,y}$, $EF_{grid,BM,y}$ and $EF_{grid,CM,y}$ are considered as ex-ante fixed parameters. Assessment team checked the values, source of data, choice of data, purpose of the data mentioned in the MR from the GS PDD and confirms that the similar approach was considered for the current monitoring period also. The ex-ante fixed parameters are described below:

The value for $EF_{grid,OM,y}$ & $EF_{grid,BM,y}$ was considered from Grid calculation published by Central electricity Authority, India, version 19.0 on March 2023 Further, $EF_{grid,CM,y}$ value calculated as per the below mentioned formula according to CDM Tool 07.

$$EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$$

The default value as mentioned in the GS PDD and MR are same. The default value in turn is used for baseline calculation as per the formula given in the GS PDD for the current monitoring period.

The values are as below:

$$EF_{grid,OM,y} = 0.9580 \text{ tCO}_2\text{e/MWh}$$

$$EF_{grid,BM,y} = 0.8670 \text{ tCO}_2\text{e/MWh}$$

$$EF_{grid,CM,y} = 0.8897 \text{ tCO}_2\text{e/MWh}$$

b. Data and parameters monitored

As per the registered monitoring plan and requirement of the registered methodology following parameters needs to be monitored:

EG_{facility,y} or EG_{PJ,y} - Net Quantity of Electricity supplied to grid (MWh):

This parameter is computed as difference of EG_{gross} and EG_{aux} i.e $EG_{facility,y} = EG_{gross} - EG_{aux}$. The quantity of net electricity generation by the project activity is 396,596 MWh. Verification team has also cross checked the electricity export to grid with import/export meter installed at sub-station in line with the requirement of registered monitoring plan. Assessment team confirms that calculation is correct and in line with the approved monitoring plan.

EG_{gross} - Gross electricity generation by the project activity (MWh):

The gross generation data is measured/metered continuously by energy meter of accuracy class 1.0s installed at plant site owned by PP which is used for metering and billing to state utility. The electricity generation readings are recorded hourly in plant logbook as per monitoring plan in revised PDD. Energy meters are also installed at sub-station for measurement of export and import which is beyond control of PP and used for cross checked. The details of meters used for monitoring of gross generation are as follows:

Meter (Transmitter /Gauge)	Make Of Meter	Accurac y Class	Meter serial number	Calibration date	Due date
Meter change date: 02/06/2022					
TG 1	Schneider	1.0	540180078685	04/04/2022	04/04/2023
TG 2	Schneider	1.0	540180079101	04/04/2022	04/04/2023
TG 3	Schneider	1.0	540180078676	04/04/2022	04/04/2023
Meter change date: 02/05/2023					
TG 1	Schneider	1.0	34140731734	28/03/2023	28/03/2024
TG 2	Schneider	1.0	34140731733	28/03/2023	28/03/2024
TG 3	Schneider	1.0	34140731738	28/03/2023	28/03/2024
Meter change date: 03/04/2024					
TG 1	Schneider	1.0	540180078685	15/03/2024	15/03/2025
TG 2	Schneider	1.0	540180079101	15/03/2024	15/03/2025
TG 3	Schneider	1.0	540180078676	15/03/2024	15/03/2025
Meter change date: 03/04/2025					
TG 1	Schneider	1.0	34140731734	25/02/2025	25/02/2026
TG 2	Schneider	1.0	34140731733	25/02/2025	25/02/2026
TG 3	Schneider	1.0	34140731738	25/02/2025	25/02/2026

During onsite visit it was observed that this value is monitored continuously and recorded hourly. The verification team has reviewed the plant logbook and confirms that values are correct. Verification team checked the plant logbook and confirms that values are correct. The meters are calibrated as per calibration frequency mentioned in registered monitoring plan. The total gross electricity generation by the project activity during this monitoring period is **396,596 MWh**. The verification team has confirmed that monitoring practiced at the site matches with that reported in the revised PDD.

EG_{y Aux} - Auxiliary consumption by the project activity (MWh):

The auxiliary consumption data is measured/metered continuously by auxiliary meter of accuracy class 0.2s installed at site. The auxiliary consumption data is recorded hourly in plant logbook. The details of auxiliary meter are as follows:

Meter (Auxiliary)	Make of Meter	Accuracy Class	Meter serial number	Calibration date	Due date
Meter change date: 25/06/2021 (Installed and Sealed by HPSLDC)					
AUX 1	Secure	0.2	Q0333445	24/11/2020	23/11/2021
AUX 2	Secure	0.2	Q0333450	24/11/2020	23/11/2021
AUX 1	Secure	0.2	Q0333445	20/11/2021	19/11/2022
AUX 2	Secure	0.2	Q0333450	20/11/2021	19/11/2022
AUX 1	Secure	0.2	Q0333445	18/11/2023	17/11/2024
AUX 2	Secure	0.2	Q0333450	18/11/2023	17/11/2024
AUX 1	Secure	0.2	Q0333445	17/11/2024	16/11/2025
AUX 2	Secure	0.2	Q0333450	17/11/2024	16/11/2025

Loop in and Loop Out Meters: -

Meter type	Old Meter Sr. No.	Make and Accuracy Class	Date Testing and Validity	Replaced Meter Sr.no.	Meter Change	Validity
Main-1	HPU06107	Secure,0.2s	Meters are changed only in this duration	Q0333420	25/06/2021	24/06/2022
Check-1	HPU06108	Secure,0.2s		Q0333442	25/06/2021	24/06/2022
Main-2	HPU06250	Secure,0.2s		Q0333350	25/06/2021	24/06/2022
Check-2	HPU06251	Secure,0.2s		Q0333438	25/06/2021	24/06/2022
Meter change date: 25/06/2021						

Meter type	Old Meter's Sr. No.	Make and Accuracy Class	Date of Testing and Validity
Main-1	Q0333420	Secure,0.2s	20/06/2023 to 19/06/2024
Check-1	Q0333442	Secure,0.2s	20/06/2023 to 19/06/2024
Main-2	Q0333350	Secure,0.2s	20/06/2023 to 19/06/2024
Check-2	Q0333438	Secure,0.2s	20/06/2023 to 19/06/2024
No Meter Change			
Main-1	Q0333420	Secure,0.2s	15/06/2024 to 14/06/2025
Check-1	Q0333442	Secure,0.2s	15/06/2024 to 14/06/2025
Main-2	Q0333350	Secure,0.2s	15/06/2024 to 14/06/2025
Check-2	Q0333438	Secure,0.2s	15/06/2024 to 14/06/2025
No Meter Change			
Main-1	Q0333420	Secure,0.2s	04/04/2025 to 03/04/2026
Check-1	Q0333442	Secure,0.2s	04/04/2025 to 03/04/2026
Main-2	Q0333350	Secure,0.2s	04/04/2025 to 03/04/2026
Check-2	Q0333438	Secure,0.2s	04/04/2025 to 03/04/2026

The verification team has reviewed the plant logbook and confirms that values are correct. Verification team checked the plant logbook and confirmed that values are correct. The total auxiliary consumption by the project activity is **1,387.924 MWh**. The verification team has confirmed that monitoring practiced at the site matches with that reported in the revised PDD.

The calibration frequency of meter is annually. No Delay in above mentioned calibration period has been observed by VVB, thus accepted.

PP did not apply sampling plan to determine data and parameters monitored during this monitoring period. The verification team has checked all the documents such as JMRs and hence sampling plan was not required. The verification team hereby confirms that all the documents have checked and found relevant to the current project activity.

c. Compliance with the calibration frequency requirements for measuring instruments

The calibration details such as make, accuracy class serial number is as per the meter available onsite and checked through photograph of meters. The Calibration details are presented above section.

Calibration frequency of the monitoring meters for project site are mentioned accordingly as per the monitoring plan. Assessment team checked the same and found that the calibration is appropriate and correct as traceability is ensured. In accordance with submitted copies of calibration certificates during onsite visit, meters were calibrated and for the meters which are beyond the calibration period for those permissible error limit has been applied accordingly. Calibration of the Energy meter is done by 3rd party entity "NIIRT-Centre for Calibration, Analysis & testing". Entity is certified agency for calibration in host country i.e., India. And

The details of meter numbers and testing dates, the meters are tested/calibrated during the monitoring period have been detailed in above section.

3.5 SDG Outcomes Monitoring

In the GS PDD version 06 Dated 04/03/2025, indicators are chosen for the monitoring of sustainable monitoring:

Meth/tool	Relevant SDG indicator	GS PDD	MR	Compliance
Net electricity supplied to the grid	SDG 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix Indicator 7.2.1: Renewable energy share in the total final energy consumption	Net Quantity of Electricity supplied to grid , Gross electricity generation by the project activity and Auxiliary consumption by the project activity	Net Quantity of Electricity supplied to grid , Gross electricity generation by the project activity and Auxiliary consumption by the project activity	Yes
Decent Work and Economic Growth	8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value.	Number of employment generation	Number of employment generation	Yes

Meth/tool	Relevant SDG indicator	GS PDD	MR	Compliance
	8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities			
Decent Work and Economic Growth	8.6: By 2020, substantially reduce the proportion of youth not in employment, education or training 8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training	Quality of employment	Quality of employment	Yes
Climate Action	SDG 13.2: Take urgent action to combat climate change and its impacts (Indicator 13.2.1: Number of countries with nationally determined contributions, long-term strategies, national adaptation plans, strategies as reported in adaptation communications and national communications)	Emission reductions achieved per year	Emission reductions achieved per year	Yes

The verification of the parameters required by the monitoring plan is provided as follows:

Relevant SDG Indicator	SDG 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix Indicator 7.2.1: Renewable energy share in the total final energy consumption.													
Data/parameter:	EG _{facility,y} or EG _{PJ,y}													
Unit	MWh													
Description	Net Quantity of Electricity supplied to grid													
Source of data checked by the assessment team	Calculated from difference of Gross electricity generation and Auxiliary consumption by the project activity													
Value(s) of monitored parameter	<table><tr><th>Monitoring Period</th><th>Net Electricity Generated (MWh)</th></tr><tr><td>26/07/2022 - 31/12/2022</td><td>72,663.928</td></tr><tr><td>01/01/2023 - 31/12/2023</td><td>153,118.317</td></tr><tr><td>01/01/2024 - 31/12/2024</td><td>157,856.610</td></tr><tr><td>01/01/2025 - 31/03/2025</td><td>12,958.078</td></tr><tr><td>From 26/07/2022 to 31/03/2025</td><td>396,596</td></tr></table>		Monitoring Period	Net Electricity Generated (MWh)	26/07/2022 - 31/12/2022	72,663.928	01/01/2023 - 31/12/2023	153,118.317	01/01/2024 - 31/12/2024	157,856.610	01/01/2025 - 31/03/2025	12,958.078	From 26/07/2022 to 31/03/2025	396,596
	Monitoring Period	Net Electricity Generated (MWh)												
	26/07/2022 - 31/12/2022	72,663.928												
	01/01/2023 - 31/12/2023	153,118.317												
	01/01/2024 - 31/12/2024	157,856.610												
	01/01/2025 - 31/03/2025	12,958.078												
	From 26/07/2022 to 31/03/2025	396,596												

Means of verification:	The QA/QC procedure is as per the requirement of the GS PDD and onsite practice. Assessment team confirms the same during the onsite interviews with PP. Assessment team checked calculation for the net electricity generated by the project activity. Moreover, as per the requirement of the approved methodology and GS PDD, assessment team cross checked the net electricity value as presented in the respective JMR with the invoices raised along with the plant logbooks maintained at the project site and found the values consistent. The same is thus acceptable to the assessment team and thus emission reduction calculation is correct.
Cross check mechanism	VVB has cross checked both plant logbooks as well as the invoices hence concluding that mission reduction calculated is correct and accurate. The cross-check mechanism is presented in the emission reduction calculation sheet and the same is found correct.

Relevant SDG Indicator	SDG 13 – Climate Action: Take urgent action to combat climate change and its impacts Indicator 13.2.2: Total greenhouse gas emissions per year.													
Data/parameter:	ER _y													
Unit	tCO ₂ e													
Description	Emission reductions achieved per year													
Source of data checked by the assessment team	As per Actual ER Sheet.													
Value(s) of monitored parameter	<table><tr><th>Year</th><th>Emission Reductions (tCO₂e)</th></tr><tr><td>26/07/2022 - 31/12/2022</td><td>64,639</td></tr><tr><td>01/01/2023 - 31/12/2023</td><td>136,208</td></tr><tr><td>01/01/2024 - 31/12/2024</td><td>140,417</td></tr><tr><td>01/01/2025 - 31/03/2025</td><td>11,522</td></tr><tr><td>From (26/07/2022 to 31/03/2025)</td><td>352,786 tCO₂e</td></tr></table>		Year	Emission Reductions (tCO ₂ e)	26/07/2022 - 31/12/2022	64,639	01/01/2023 - 31/12/2023	136,208	01/01/2024 - 31/12/2024	140,417	01/01/2025 - 31/03/2025	11,522	From (26/07/2022 to 31/03/2025)	352,786 tCO₂e
Year	Emission Reductions (tCO ₂ e)													
26/07/2022 - 31/12/2022	64,639													
01/01/2023 - 31/12/2023	136,208													
01/01/2024 - 31/12/2024	140,417													
01/01/2025 - 31/03/2025	11,522													
From (26/07/2022 to 31/03/2025)	352,786 tCO₂e													
Means of verification:	Emission reduction calculated in thus correct and accurate.													
Cross check mechanism	VVB has cross checked both plant’s JMR as well as the invoices hence concluding that mission reduction calculated is correct and accurate. The cross-check mechanism is presented in the emission reduction calculation sheet and the same is found correct.													

Relevant SDG Indicator	SDG 8: Indicator 8.5.1: Average hourly earnings of female and male employees, by occupation, age and persons with disabilities													
Data/parameter:	Number of jobs created during the project activity													
Unit	Number													
Description	Number of people employed directly due to the project activity													
Source of data checked by the assessment team	Plant records or the training records for all the employees/Letter from O&M contractor for employment generation/ DOE interview with employees, local stakeholders etc.													
Value(s) of monitored parameter	<table><tr><th>Year</th><th>Number</th></tr><tr><td>2022</td><td>03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)</td></tr><tr><td>2023</td><td>03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)</td></tr><tr><td>2024</td><td>03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)</td></tr><tr><td>2025</td><td>03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)</td></tr><tr><td colspan="2">From 26/07/2022 to 31/03/2025 : 03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)</td></tr></table>		Year	Number	2022	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)	2023	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)	2024	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)	2025	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)	From 26/07/2022 to 31/03/2025 : 03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)	
Year	Number													
2022	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)													
2023	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)													
2024	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)													
2025	03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)													
From 26/07/2022 to 31/03/2025 : 03 (Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0)														

Means of verification:	The value for this parameter is taken from Plant records, Salary Slips. Attendance sheets. Verification team interviewed some employees & local stakeholders.
Cross check mechanism	VVB has cross checked the Employment records, hence concluding that provided details in monitoring report are found is correct and accurate.

Relevant SDG Indicator	SDG 8: Indicator 8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training	
Data/parameter:	Quality of employment	
Unit	Number	
Description	Training of Staff	
Source of data checked by the assessment team	Assessment team reviewed training records I, e., training attention sheet and MOMs	
Value(s) of monitored parameter	Year	Number of trainings provided
	2022	1
	2023	2
	2024	2
	2025	1
	From 26/07/2022 to 31/03/2025	06
Means of verification:	The value for this parameter is taken from Training records	
Cross check mechanism	VVB has cross checked the Training records, hence concluding that provided details in monitoring report are found is correct and accurate.	

As a part of Continuous stakeholder communication or any grievance, during the interviews with PP, the verification team confirmed that there is a grievance book/form (Local body Authority person) and is accessible to local stakeholders. By checking grievance book submitted by PP, it was able to confirm there are no comments received from the local people for the present monitoring period. Local people are happy with the implementation of the project activity as it entrusts employment and improve living standard of local people and villagers.

The assessment team confirmed that although the project was formerly registered under the CDM, it has transitioned to the Gold Standard and no emission reductions have been verified under the CDM after 30/06/2019. For the current monitoring period the project is applying verification solely under the Gold Standard, and no claims will be made under the CDM. The team also verified that the project is not registered under the I-REC mechanism, VCS, GCC or any other similar registry. Accordingly, the risk of double counting is ruled out.

In Summary, it is Applus+ Certification's opinion that the monitoring of the project participant regarding to sustainability is in line with requirement of the GS4GG guideline.

Summary of ex-post values of each SDG outcome for the current monitoring period

Item	Baseline estimate	Project estimate	Net benefit
SDG 7: Affordable and Clean Energy	0	396,596 MWh	396,596 MWh
SDG 8: Decent Work and Economic Growth	0	03 people employed 06 Training	03 people employed 06 Training
SDG 13: Climate Action	352,786 tCO ₂ e	0	352,786 tCO ₂ e

Comparison of actual value of outcomes with estimates in approved GS PDD

Item	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
SDG 7: Affordable and Clean Energy	419,578.51 MWh for current Monitoring period	396,596 MWh
SDG 8: Decent Work and Economic Growth	05 people employment and 1 training	03(Skilled: 03, Un-Skilled: 0, Semi-Skilled: 0), 06 trainings Provided
SDG 13: Climate Action	373,299 tCO ₂ e for current Monitoring period	352,786 tCO ₂ e

3.6 Assessment of Data and Calculation of Greenhouse Gas Emission Reductions

As a result of verification of the ER calculation process, the assessment team confirmed that all the parameters required for the determination of the emission reductions have been included in the Monitoring report and corresponding ER calculation spread-sheets and are consistent with the applied methodology ACM0002, Version 22.0 and the monitoring plan contained in the GS registered PDD. The parameters are complete in this monitoring period.

After verifying the reported figures with the raw data sources, it's confirmed that the values of the parameters from the raw data sources are consistent with those quoted in the Monitoring report Version 05 and corresponding ER calculation spread-sheets. The verification process for the same has been clearly described in above section of the report. See below for the detailed data:

Baseline Emissions for the amount of electricity supplied by project activity, BE_y is calculated as:

The baseline emission is calculated in line with ACM0002, Version 22.0 using equation below:

$$BE_y = EG_{PJ,y} \times EF_{grid,y} \quad \text{.....Equation No. 6 (as per ACM0002)}$$

Where,

BE_y = Baseline emissions in year y (tCO₂)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh)

$EF_{grid,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO₂/MWh)

$EF_{grid,y}$ = Baseline Emission factor
 = 0.8897 tCO₂/MWh

BE_y = $EG_{BL,y} \times EF_{grid,y}$
 = 396,596 * 0.8897
 = 352,786 tCO₂e (round down value)

Project emissions: The project emissions are regarded as zero according to the applied methodology and registered PDD. The reservoir area created by the diversion barrage is 17,000 m² which gives a power density of 2,117.6 W/ m². Since this is greater than 10 W/m², Therefore, in accordance to applied methodology, the project emissions considered as zero.

Emission reductions:

Thus, the emission reductions are as per para 62 equation 17 of ACM0002 Version 22.0:

$ER_y = BE_y - PE_y$
 = 352,786 – 0
 = 352,786 tCO₂e

The actual achieved emission reduction for this monitoring period is -5.50% Lower than estimated value in the GS PDD (352,786 tCO₂e against estimated 373,299 tCO₂e for 980 operational days).

3.7 Management and Operational System

The responsibilities of data measurement, collection, verifying, archiving etc. have been clearly defined in the GS PDD. The same practice is followed onsite and it is confirmed by the assessment team during the interviews with PP. The data related to ER calculation as well as data monitoring, collection process etc. have been internally reviewed by the management of the Monitoring team regularly. The responsibility of each function is consistent with the monitoring plan in the GS PDD.

The information flow of each parameter has been verified by the assessment team via interviewing with responsible personnel.

It's verified during the interviews with PP & document review, the monitoring procedure as well as the internal quality management and control procedures are stipulated in the GS PDD. The monitoring personnel have been interviewed by the assessment team and it's confirmed that the monitoring is implemented as per the procedure. Also, the training record has been checked by the assessment team and it is confirmed that the monitoring personnel are get sufficient train to perform the monitoring.

All the data and documents, either hard copies or soft copies, is kept for two years after the end of the last crediting period or the last issuance of GS CERs for this Project, whichever occurs later.

4. REFERENCE

LIST OF DOCUMENTS	
S. No.	Document/Evidence/Reference/Web link, Version, Date
1.	Monitoring Report Version 01 dated 19/06/2025, Monitoring report version 05 dated 24/09/2025
2.	ER Sheets version 05 dated 24/09/2025
3.	Final PDD under validation Version 06 Dated 04/03/2025 Final GS Validation report version 4.2 dated 06/03/2025
4.	Gold Standard Rules and guidelines, Version 2.1 ACM0002 Version 22.0 "Grid-connected electricity generation from renewable sources" Tool 7- "Tool to calculate the emission factor for an electricity system" version 07.0 Tool 11- Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period -Version 3.0.1 (EB 66 annex 47) Tool 21- Tool for the demonstration and assessment of additionality - Version 7.0.0 CDM project standard for project activities, version 3.0 CDM validation and verification standard for project activities, version 03.0
5.	Guidelines for application of materiality in verification, version 2.0
6.	Commissioning certificates for the project activity.
7.	Training records of the employees (both skilled/non-skilled) for the complete monitoring period
8.	Power Purchase Agreement
9.	Monthly Joint Metering report and Invoices.
10.	Calibration certificates for all meters covering complete monitoring period.
11.	Logbook in excel for Daily Generation Reports for complete monitoring period
12.	Sample work contract for both skilled and non-skilled manpower Training Records
13.	Grievance register
14.	Technical specifications of monitoring equipment's
15.	Declaration from project developer for no double counting of the emission reductions

5. FINAL VERIFICATION STATEMENT

Applus+ Certification has been engaged by IA Hydro Energy Private Limited & Climera Carbon Private Limited to perform the verification of the “Chanju I Hydro Electric Project” (GS 7154) (UNFCCC Ref. No. 10153)².

The management of Climera Carbon Private Limited is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the Registered PDD and the applied methodologies.

Our verification approach was based on the requirements as defined under the GS validation and Verification Standard, version 2.0. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- Project is operated as planned and described in the project design document approved by the EB;
- Monitoring plan is as per the applied methodology;
- Monitoring in Monitoring Report is as per the PDD and the monitoring plan approved by the EB;
- Development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;
- Installed equipment being essential for generating emission reduction runs reliably;
- Monitoring system is in place and generates GHG emission reductions data;
- GHG emission reductions are calculated without material misstatements.

Based on the information we have seen and evaluated, we confirm the following statement:

Reporting period: 26/07/2022 to 31/03/2025 (inclusive of both dates)

Verified emissions in the above reporting period:

Leakage emissions	0 tCO ₂ e equivalents
Project emissions	0 tCO ₂ e equivalents
Baseline emissions	352,786 tCO ₂ e equivalents
Emission reductions	352,786 tCO ₂ e equivalents

² <https://cdm.unfccc.int/PRCContainer/DB/prcp452143904/view>

Date: 25/09/2025
Lead Auditor and Technical Expert Mr. Ishan Shrivastava
Auditor in Training and Technical Expert in Training: Mr. Sarthak Jain
Tech. Reviewer and Technical Expert: Mr. David Lubanga

Approver (*Applus+ Certification VVB Technical Manager*)
Mr. Agustín Calle de Miguel

ASSESSMENT TEAM	
Lead Auditor: Mr. Ishan Shrivastava	Technical Reviewer: Mr. David Lubanga
Signature: 	Signature: 
Approver: Mr. Agustín Calle de Miguel	
Signature: 	

Appendix 1: Corrective Action Request/Clarification Request/Forward Action Request resolution table

Table 1 Remaining FAR from validation and/or previous verifications

FAR ID	01	Section no.	XX	Date: 04/08/2025
Description of CL				
FAR from previous Verification by VVB: - The VVB shall verify the emission reductions will be capped to the upper bound of the sensitivity analysis (+/- 10%) range for next monitoring period if achieved emission reductions values higher.				
Project participant response				Date: 13/08/2025
In response to the Forward Action Request raised during the previous verification, the Project Participant confirms that the emission reductions for the current monitoring period have been assessed in accordance with the sensitivity analysis range. Specifically, if the achieved emission reductions exceeded the upper bound of the sensitivity analysis (+10%), the values have been conservatively capped at the upper bound, as per the FAR guidance. During this verification achieved emission reductions are under 10% limit of estimated value for this monitoring period.				
Documentation provided by project participant				
ER sheet and Monitoring report				
DOE assessment				Date: 28/08/2025
PO's response is accepted, estimated emission reductions for the current monitoring period is 396,596 tCO ₂ e and actual achieve Emission reduction was 352,786 tCO ₂ e which is 5.5% less than the estimated value , which falls under the range, Thus This FAR is Closed.				

FAR ID	02	Section no.	XX	Date: 04/08/2025
Description of CL				
FAR from previous Verification by GS Reviewer: - The earlier site visit for validation was carried out on 24/02/2021 and site visit for current verification is carried out on 10/04/2024 which is after 3 years and as per Rule update on Applicability of Minimum Site Visit Requirements by VVB, the VVB shall not verify the monitoring period falling before three years of the site visit date.				
Project participant response				Date: 13/08/2025
The validation site visit was conducted on 24/02/2021, and the current verification site visit was carried out on 10/04/2024. The monitoring period under consideration 01-Jul-2019 to 25-Jul-2022 falls within the three-year window preceding the site visit date, and is therefore eligible for verification in accordance with the updated rule. The PP confirms that the monitoring data and emission reduction calculations for this period have been submitted for verification, in full compliance with Gold Standard requirements.				
Documentation provided by project participant				
-				
DOE assessment				Date: 28/08/2025
Last site visit for verification was conducted in 10/04/2024 and for current monitoring period Onsite visit was performed on 26/07/2025 which is less than 3 years from last visit, Hence it complies with Gold Standard requirements. Thus This FAR is Closed.				

FAR ID	03	Section no.	XX	Date: 04/08/2025
Description of CL				
1. "During the onsite visit, AT reviewed the calibration certificate and found that the last meter calibration was performed on 17/05/2019, with a validity extending until 17/05/2020. No subsequent calibrations have been carried out by PD, Calibration status should be checked in the next verification". 2. "As per Site visit and remote audit requirements and procedures V 2.0 & 3.2.2, A physical site visit is mandatory during first verification." 3. "As per GS4GG principles & requirements version 1.2, Verifying VVB shall take note of the monitoring period claims during the 1st verification." 4. "As per GS4GG principles & requirements version 1.2, VVB and PP shall consider the following rule: 5.1.29: 1st verification shall be completed within two years after the certification is achieved." 5. "As per GS4GG principles & requirements version 1.2 section-D, an annual report shall be submitted for each monitoring year by end of next calendar year for which verification is not completed. If a verification is in progress but not completed, then an Annual Report is still required by the end of calendar year". 6. "As per GS4GG Principles & Requirements Version 1.2 clause 4.1.52 (c), As per GS4GG Principles & Requirements Version 1.2 clause 4.1.52 (c) "Where no revenue is realised from Gold Standard certification during a given period, this would be considered a FAR for the next Issuance. "				
Project participant response				Date: 13/08/2025
1. Meters are calibrated for the current monitoring period. 2. Physical site visit has been done in current verification after the renewal of crediting period. 3. – 4. 1st verification is performing within 2 years of renewal of crediting period. 5. Annual report is now submitted. 6. Following the renewal of the crediting period, no verification was undertaken due to the following reasons: Market & Revenue Constraints: No revenue was realized from Gold Standard certification during the period. In view of the high verification and transaction costs, the Project Owner considered it financially unfeasible to proceed with verification. Operational Priorities: The Project Owner concentrated on sustaining project operations and ensuring the continued delivery of sustainable development benefits, while postponing verification activities. Strategic Timing: The Project Owner intends to consolidate multiple monitoring periods into one verification cycle to optimize costs and administrative efficiency.				
Documentation provided by project participant				
-				
DOE assessment				Date: 28/08/2025

1. During current Onsite visit calibration certificates were reviewed for installed energy meters by PO and HPSLDC, detailed assessment is provided in Verification report. Thus, this part of **FAR is Closed.**
2. The current verification site visit was carried out on 26/07/2025, Thus is inline with section 3.2.2 of GS Site Visit and Remote Audit Requirements and Procedures – V2.0 “A physical site visit by VVB is mandatory at the first verification of a project.” Thus, this part of **FAR is Closed.**
3. Inlining with GS4GG principles & requirements version 1.2, Verification team has taken notes of the monitoring period claims during the 1st verification. Assessment is provided in Verification report. Thus, this part of **FAR is Closed.**
4. Inlining with section 5.1.29 of GS4GG principles & requirements version 1.2, the first verification is conducted with in Two year after the certification is achieved by Project Activity. Thus, this part of **FAR is Closed.**
5. PP has provided GS Annual report for current monitoring report inlining with as per GS4GG principles & requirements version 1.2 section-D. Same has been checked and found acceptable. Thus, this part of **FAR is Closed.**
6. PD has explained that no verification was undertaken during the period following the renewal of the crediting period due to market and revenue constraints, as no income was realized from Gold Standard certification, making the costs of verification financially unfeasible. The PD prioritized sustaining project operations and ensuring the continued delivery of sustainable development benefits while strategically planning to consolidate multiple monitoring periods into one verification cycle for cost and administrative efficiency. This justification is consistent with Clause 4.1.52(c) of the GS4GG Principles & Requirements v1.2, and the VVB considers the rationale reasonable; therefore, the **FAR is closed**

Table 2. CLs from this verification

Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	01
Raised by:	Mr. Ishan Shrivastava	Ref. to checklist in GS4GG PDD:	GS PDD
Description of the audit finding		Date:	04/08/2025
Provide Supporting document: 1. PP is requested to submit the Annual Report for GS for current monitoring period. 2. Training records mentioned in Appendix 1. 3. Calibration certificates for current monitoring period. 4. Employment records. 5. EIA Reports. 6. Grievance register was not found during onsite visit. 7. All JMR and Invoices. 8. Under supporting documents directory, Self-deceleration folder is provided, however, it was found empty. 9. SDG Impact Tool.			
Project Participant's response		Date:	13/08/2025
1. Annual report is now provided 2. Training records are now provided 3. Calibration certificates are now provided 4. Employment records are now provided			

5. EIA report is now submitted to assessment team.
6. Grievance register is now provided to assessment team.
7. All JMR and invoices are now provided.
8. No double accounting self declaration is now provided to team.
9. SDG impact tool is now provided.

Documentation provided as evidence by Project Participant

1. SDG impact tool
2. Declaration letter
3. JMR and invoices
4. Grievance register copy
5. EIA report
6. Employment and training records
7. Calibration certificates

Auditor's assessment comment

Date:

14/08/2025

1. PP has submitted Annual Report for GS for period covering current monitoring period. Which was checked and found acceptable. Thus, this part of **CL is closed.**
2. PP has submitted Training records for current monitoring period provided in appendix 1 in MR document were checked and found consistent, Thus, this part of **CL is closed.**
3. PP has now provided Calibration Certificate for installed meters, which was checked with information provided appendix 2 of MR document and found acceptable, however for main and check meters installed, kindly refer CAR04 mentioned. Thus, this part of **CL is Open.**
4. PP has not provided Employment records as mentioned in MR documents, however it was observed that 18 persons are mentioned which was also mentioned for Monitoring periods from 1st crediting period (from 01/07/2019 to 25/07/2025), Also as per PDD-RCP m under footnote 4 it is mentioned that "*During CP renewal period, at least one new job and one training session will be provided annually. A total of 75 people are directly employed due to the project activity, and all will continue working during the CP renewal period.*", PP shall provide the details and evidence of newly created jobs in this crediting period from 26/07/2022 to 31/03/2025. PP shall provide documentary evidence for remaining as well. Thus, this part of **CL is Open.**
5. PP has provided EIA report for Chanju-I hydro power plant, which was checked and found acceptable. Thus, this part of **CL is closed.**
6. PP has submitted Grievance logbook for Chanju-I hydro HEP plant, for current monitoring period no Grievance complain was found, same was checked at time of onsite visit and interview with stakeholders, Thus, this part of **CL is closed.**
7. PO has provided all the applicable JMR and Invoices for current monitoring period, values provided in emission reduction sheet for calculation was checked and found consistent except for date 26/07/2022, CL02 has been raised for same. Thus, this part of **CL is closed.**
8. PP has provided Self-declaration for No double counting dated 08-August-2025, which was checked and found acceptable. Thus, this part of **CL is closed.**

9. PP has submitted SDG Impact Tool for current monitoring periods which was checked with information provided in MR document and found acceptable. Thus, this part of CL is closed. CL is Open.		
Project Participant's response	Date:	21/08/2025
3. The details for auxiliary meters and it's calibration are now added to the appendix section of revised monitoring report. 4. details and evidence of newly created jobs in this crediting period from 26/07/2022 to 31/03/2025 are now provided to the assessment team, The total 3 employees were hired during this monitoring period. The appointment letters for newly hired employees are now provided to the assessment team.		
Documentation provided as evidence by Project Participant		
auxiliary meters calibration report Revised monitoring report appointment letters for newly hired employees		
Auditor's assessment comment	Date:	26/08/2025
3. PP has now provided Calibration Certificate for installed meters, which was checked with information provided appendix 2 of MR document and found acceptable, also now details of auxiliary meters are being provided as well, which was checked and found acceptable. Thus, this part of CL is Closed. 4. PP has revised detail provided Employment provided from 18 to 3 as actual value monitored in current monitoring period, Employment records for 3 person is Provided, which was checked and found acceptable. Thus, this part of CL is Closed. CL is Closed.		

Type:	☐ CAR ☐ FAR	☒ CL/CR	☐	Number:	02
Raised by:	Mr. Ishan Shrivastava			Ref. to checklist in above tables:	
Description of the audit finding				Date:	04/08/2025
1. During Desk review it was observed that Under Key project Information table Project representative is mentioned as "Climera Carbon Private Limited" however as per GS PDD and on GS project's webpage "EKI Energy Services Limited" is mentioned, kindly clarify. 2. Kindly clarify how Generation on 26/07/2022 was determined for calculation emission reduction, since as per provided Power supply bills, the value was found to be 822,000 kWh, which is found inconsistent with ER sheet, kindly clarify provide supporting documentary evidence.					
Project Participant's response				Date:	13/08/2025
1. The registry transfer process is initiated from EKI to climera carbon pvt ltd , once it is done it will reflect on webpage 2. The values are now consistent with the ER sheet and supporting evidence are also provided.					
Documentation provided as evidence by Project Participant					
ER and MR - updated					
Auditor's assessment comment				Date:	14/08/2025

1. Till the registry transfer process is complected and change of Representative as "Climera Carbon Private Limited" on GS project's webpage is reflected. Thus, this part of **CL is open**.
2. PP's response is not accepted, since there is no sources found for electricity generated from 26/07/2022 to 31/07/2022 and for 31/03/2025, PP to kindly justify and provide the source of data in ER sheet, Thus, this part of **CL is open**.

CL is open.

Project Participant's response	Date:	21/08/2025
1. Registry transfer process is initiated, it is accepted that this CL will be closed once the transfer change process is completed. 2. The date in the ER sheet has been revised to align with the JMR period from 25.07.2022 to 31.07.2022, ensuring consistency between both documents. Additionally, only one JMR is available for the period 31.03.2025 to 31.03.2025, and the values in the ER sheet have been sourced directly from this JMR. However, the billing period in the ER sheet has now been updated accordingly.		
Documentation provided as evidence by Project Participant		
Revised ER sheet		
Auditor's assessment comment	Date:	26/08/2025
1. During Desk review it was observed that Under Key project Information table Project representative is mentioned as "Climera Carbon Private Limited" however as per GS PDD and on GS project's webpage "EKI Energy Services Limited" is mentioned, According to PP's response , PP has requested registry to transfer, the name of representative, Till the time of Concluding this verification process , Transfer process is not yet complected and change of Representative as "Climera Carbon Private Limited" on GS project's webpage is not yet reflected, Thus , FAR is Raised. 2. PP's response is accepted for Emission reduction calculation sheet, now all inconsistencies has been revised in ER sheet, same was checked with MR report and found acceptable. Thus, this part of CL is Closed.		
CL is Closed and FAR is Raised.		

Table 3. CAR from this verification

Type:	☒ CAR FAR	☐ CL/CR	☐	Number:	01
Raised by:	Mr. Ishan Shrivastava			Ref. to checklist in above tables:	
Description of the audit finding				Date:	04/08/2025
1. During Desk review it was observed that there are many inconsistencies in Provided monitoring report from Template guide Monitoring report v.1.1., 2. During Desk review it was observed that Footnote number 1 and 2 are provided twice, PP to kindly check and revised the MR document. 3. During Desk review it was observed that under Monitoring report, on multiple pages, unnecessary Spaces are left out between paragraphs and section, PP to kindly check and revised the MR document.					
Project Participant's response				Date:	13/08/2025
1. The inconsistencies are now corrected throughout the MR. 2. The footnotes are now corrected in MR 3. The spaces and gaps are now aligned throughout the revised MR.					
Documentation provided as evidence by Project Participant					

Revised MR sheet		
Auditor's assessment comment	Date:	14/08/2025
1. PP has now revised Project's Monitoring report as per from Template guide Monitoring report v.1.1, same was checked for all the previous inconsistent in Report and found to be corrected. Thus, this part of CAR is closed. 2. PP has now revised monitoring report, now duplication of footnote 1 and 2 is now revised. Thus, this part of CAR is closed. 3. PP has revised monitoring report for unnecessary Spaces which were left out between paragraphs and sections, mostly inconsistency has been revised, however under few pages extra spaces are still to be observed, PP shall revised the remaining inconsistency, Thus, this part of CAR is Open. CAR is Open.		
Project Participant's response	Date:	21/08/2025
Under few pages extra spaces are now removed in revised monitoring report		
Documentation provided as evidence by Project Participant		
Revised monitoring report		
Auditor's assessment comment	Date:	26/08/2025
3. PP has now revised Monitoring report for all the format and Template Inconsistencies, also unnecessary Spaces which were left out between paragraphs and sections are being removed, Thus this part of CAR is Closed.		

Type:	☒ CAR FAR	☐ CL/CR	☐	Number:	02
Raised by:	Mr. Ishan Shrivastava			Ref. to checklist in above tables:	
Description of the audit finding				Date:	04/08/2025
As details of calibration and meter change are provided in Appendix 2 of Monitoring report and 'Meter Calibrations' sheet in ER sheet. It was observed that Q0333445 and Q0333450 were replaced on 25-June-2021 by HPSLDC and is maintained by HPSLDC. Kindly clarify what is the calibration frequency in Himanchal Pradesh and kindly mentioned Calibration validity. And provide the calibration certificates applicable from date of installed till end of monitoring period.					
Project Participant's response				Date:	13/08/2025
Q0333445 and Q0333450 meters are auxiliary meters, the calibration details are now revised in the revised MR. The details for auxiliary meters and its calibration are now added to the appendix section of revised monitoring report.					
Documentation provided as evidence by Project Participant					
Auxiliary meters calibration reports Revised monitoring report					
Auditor's assessment comment				Date:	14/08/2025
PP's response is not acceptable, Since for PP has removed information of Q0333445 and Q0333450 which are used for monitoring. From MR report, also the response on calibration frequency in Himanchal Pradesh and calibration validity is not responded. Thus, This CAR is open.					
Project Participant's response				Date:	21/08/2025
The details for auxiliary meters and its calibration are now added to the appendix section of revised monitoring report.					
Documentation provided as evidence by Project Participant					
Auxiliary meters calibration reports Revised monitoring report					

Auditor's assessment comment	Date:	26/08/2025
PP has now revised Description of Monitoring report for current monitoring period for Details of Energy meter with sr. no. Q0333445 and Q0333450, under appendix 2, Provided Calibration certificates were checked and found acceptable, Thus, this CAR is Closed.		

Table 4. FAR from this verification

Type:	☐ CAR	☐ CL/CR	☒ FAR	Number:	01
Raised by:	Mr. Ishan Shrivastava			Ref. to checklist in above tables:	-
Description of the audit finding				Date:	28/08/2025
The VVB shall verify the completion and reflection of this change of representative name from “EKI Energy Services Limited” to “Climera Carbon Private Limited” during the next verification.					
Project Participant’s response				Date:	XX/XX/XXXX
-					
Documentation provided as evidence by Project Participant					
-					
Auditor’s assessment comment				Date:	XX/XX/XXXX
-					

Appendix 2: Audit Team CVs

Name	SHORT CV. BACKGROUND INFORMATION
Mr. Ishan Shrivastava	Mr. Ishan Shrivastava a Bachelor of Engineering in Mechanical Engineering graduate from Rajiv Gandhi Proudyogiki Vishwavidyalaya, India, brings a year of professional expertise garnered from his tenure at GAIL (India) Limited, one of India's prestigious Maharatna Companies, where he focused on Natural Gas, Energy, and Environmental matters. Currently, he actively associated with True Quality Certifications Pvt. Ltd., (Applus+ Certification's Outsourced Entity) having served as a pivotal team member since 2019. In this capacity, Ishan plays a significant role in supporting Audit teams as Lead Auditor & Technical Expert (TA 1.2 and 3.1) tasked with validating/verifying Project Activities, encompassing both Renewable and non-Renewable projects, within the framework of CDM/VCS/GS4GG/Bio-Carbon/GCC/ICR programs. His steadfast dedication to this pivotal responsibility underscores his expertise and unwavering commitment to the field Mr. Ishan Shrivastava is based in Indore city, India. Mr. Ishan Shrivastava participates as Lead Auditor, Technical Expert, GS Approved Auditor and Country Expert for this project activity.
Mr. Sarthak Jain	Mr. Sarthak Jain, has done Bachelor of Technology in Information Technology Engineering from Walchand Institute of Technology, Solapur, Maharashtra, India affiliated with Solapur University. Currently he is associated with True Quality Certifications Private Limited (Applus+ Certification's Outsourced Entity) and has been involved in supporting Audit teams for Verifications of Project Activities (Renewable and non-Renewable projects) under CDM/VCS/GS4GG/GCC programs. Mr. Sarthak Jain is based in Indore (Madhya Pradesh), India. Mr. Sarthak Jain participates as part of the Audit Team as Auditor in Training and Technical Expert in Training.
Mr. David Lubanga	Mr. David Lubanga is a trained engineer with over 10 years' experience of renewable as a GHG auditor. His experience as a renewable energy projects, energy efficiency, energy audits and waste management and waste to energy. He is certified auditor for ISO 50001 and 14064-2. He has successfully audited more than 300 GHG (CDM/VCS/GS) projects in different countries around the world. David holds a BSc. in Biochemical Engineering from Jacobs University Bremen (Germany), and a MSc in Environmental Resource Management from Brandenburg Technical University Cottbus (Germany), and Sheffield Hallam Technical University (England). He has undergone additional professional training in Renewable energies, Renewable Energy and finance, Energy efficiency and waste management in Scotland, Germany and Austria. Mr. David Lubanga is based in Nairobi, Kenya. Mr. David Lubanga participates in the Project's technical review team.