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



Project Title: 300 MW Solar PV Plant at Bhadla, Rajasthan
Monitoring Period: 01/08/2021 to 31/10/2022 (Both days included)
GS project ID: GS 7726
Internal ID: TQC 6623
Customer: Clean Solar Power (Bhadla) Pvt. Ltd.
Date: 10/05/2023
Revision: 1.1

SUMMARY			
Reference No.	Date <i>(first version)</i>	Version No.	Date <i>(last version)</i>
TQC 6623	11/04/2023	1.1	10/05/2023
GS4GG Verification			
GS4GG Certified Product <i>(sought):</i>		GS VER	
GS4GG SDG Impact Statement <i>(sought):</i>		Impact Certification	
General Information			
Client	Clean Solar Power (Bhadla) Pvt. Ltd.		
Project Title	300 MW Solar PV Plant at Bhadla, Rajasthan		
Project Participants	Clean Solar Power (Bhadla) Pvt. Ltd.		
Project Location	Bhadal Village, Jodhpur District, Uttar Pradesh state, India		
Contact Person	Mr. Vijay Anand		
Monitoring Period:	01/08/2021 to 31/10/2022 (Both days included)		
GS4GG Version: GS4GG Principles and Requirements 1.2 GS4GG Activity Requirements: RE Activity Requirements, version 1.4 Applied Methodology Version: ACM0002 "Grid-connected electricity generation from renewable sources" Version 20.0 Current Methodology Version: ACM0002 "Grid-connected electricity generation from renewable sources" Version 21.0		GS4GG Sectoral Scope: 2 UNFCCC CDM Sectoral Scope: 1 Technical Area: 1.2	
Monitoring Report Version: 01 Date: 13/03/2023		Final Monitoring Report Version: 03 Date: 06/04/2023	
Certified Project Design Document Version: Assessment team checked the registered GS4GG PDD version 05 dated 15/01/2022 ^{/03/}			
Estimated values for the Monitoring period for all SDG:			
SDG	SDG	Values	
7	Renewable Electricity Generated	928,828.80 MWh for the Monitoring period (457 days)	
8	Trainings provided to O&M staff	01 Trainings/annum	
8	Number of Jobs generated	36 employments/annum	
13	Emission Reduction	868,083 tCO ₂ for the monitoring period (457 days)	
Actual values for the Monitoring period for all SDG:			

SUMMARY

SDG	SDG	Actual values for this monitoring period
7	Renewable Electricity Generated	900,443.59 MWh electricity generation
8	Trainings provided to O&M staff	06 Trainings provided to O&M Staff
8	Number of Jobs generated	42 employments created
13	Emission Reduction	841,554 tCO ₂ e

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 Clean Solar Power (Bhadla) Pvt. Ltd. to perform the 2nd periodical verification of "300 MW Solar PV Plant at Bhadla, Rajasthan" (Ref. No. GS7726) applying the methodology ACM0002 Version 20.0.

The management of Clean Solar Power (Bhadla) Pvt. Ltd. is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

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

- The registered GS4GG PDD including the monitoring plan;^{/03/}
- Monitoring report(s);^{/01/}
- The applied monitoring methodology;^{/04/}
- Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- GS4GG guidelines and related Annexes of GS guidelines;^{/06/}
- All information and references relevant to the project activity's resulting in emission reductions.

Clean Solar Power (Bhadla) Pvt. Ltd. is the promoter of the project activity and involves installation of installation of 300 MW solar power project in Rajasthan state, India. Electricity generated from the project activity is sent to Indian grid of India. As per GS4GG registered PDD^{/03/}, the project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 693,327 tCO₂e per annum, thereon displacing 741,845 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian electricity grid, which is mainly dominated by thermal/ fossil fuel-based power plant.

The project activity is commissioned phase wise on following dates^{/11/}: -

S. No	Project ID	Project location	Capacity (MW)	Commissioning Date
1	R1 Plot	Village –Bhadal, Tehsil- Phalodi, Dist.-Jodhpur	100 MW	15/02/2020
2	R2 Plot		100 MW	28/02/2020
3	R3 Plot		100 MW	10/12/2019

The monitoring of emission reduction and sustainable development indicators has been carried out in accordance to respective registered PDD^{/03/}.

Applus+ Certification confirms that the project is implemented in accordance with the validated and registered GS4GG PDD. The monitoring plan complies with the applied methodology ACM0002 Version

SUMMARY

20.0^{/04/} and the GS4GG guidelines^{/06/}. 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 841,554 tCO₂e emission reductions during period 01/08/2021 to 31/10/2022 (Both days included).

ASSESSMENT TEAM

Team Members	Type of Resource ¹	Organization (for OEs)
Lead Auditor: Deepak Pundlik	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Technical Expert: Pankaj Kumar	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Technical Reviewer: Simon Shen	☐ IR ☒ EI ☐ OE	Applus+ Certification

Note: In line with the GS Rule Update RU 2020 PR – PR V1.2 dated on 02/04/2020, the VVB hereby discloses that the VVB has performed Validation of this project with team members as Mr. Sukanta Das, Mr. Pankaj Kumar and Mr. Denny Xue (Technical Reviewer) was the member of assessment team. The first verification assessment was conducted with different team i. e. Dr. Atul Takarkede and Denny Xue (Technical Reviewer). This is 2nd verification of the Project activity.

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	CDM validation and verification standard for project activities
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
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
OM	Operational Margin
PDD	Project Design Document
PP	Project Participant
SDG	Sustainable Development Goal
SECI	Solar Energy Corporation of India Limited
TAC	Gold Standard Technical Advisory Committee
UNFCCC	United Nations Framework Convention for Climate Change
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

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1. INTRODUCTION

1.1 Objective

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by Clean Solar Power (Bhadla) Pvt. Ltd. to perform the 2nd verification of "300 MW Solar PV Plant at Bhadla, Rajasthan" applying the methodology ACM0002 Version 20.0^{/04/} and GS4GG guidelines^{/06/}. Gold Standard projects must undergo periodic audits and verification of emission reductions as the basis for issuance of Gold Standard VERs.

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^{/06/} 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 registered GS PDD and that all physical features (technology, project equipment, monitoring and metering equipment) of the project are in place;
- Ensure that the published MR and other supporting documents provided are complete, verifiable and in accordance with applicable CDM validation and verification standard for project activities, version 03.0^{/05/} and Gold Standard Validation and verification standard, version 1.0^{/06/} (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^{/04/};
- Evaluate the data recorded and stored as per the ACM0002 Version 20.0^{/04/}.

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, registered PDD^{/03/} as well as its validation report, the applied monitoring methodology, relevant decisions, clarifications and guidance from the CMP and the EB, GS4GG guidelines and any other information and references relevant to the project activity's resulting emission reductions. These documents are reviewed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures, GS4GG guidelines^{/06/} and relevant Principles and Requirements, as well as their related rules and guidance.

Based on the requirements in the CDM validation and verification standard for project activities, Version 03.0 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 guidelines^{/06/}.

The verification is not meant to provide any consultancy towards the project developer. 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

"Clean Solar Power (Bhadla) Pvt. Ltd." is the promoter of the project activity and involves installation of installation of 300 MW solar power project in Rajasthan. Electricity generated from the project activity is dispatched to Indian electricity grid. As per GS4GG PDD^{/03/}, the project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 693,327 tCO₂e per annum, thereon displacing 741,845 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian electricity grid, which is mainly dominated by thermal/ fossil fuel-based power plant.

The monitoring of emission reduction and sustainable development indicators has been carried out in accordance to respective registered GS4GG PDD^{/03/}.

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's 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 used a periodical verification checklist which, based on the 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, using the verification checklist, Applus+ Certification verified the implementation of the monitoring plan and the data presented in the monitoring report for the period in question. This involved a site visit and a desk review of the monitoring report. This verification report describes the findings and its closure for 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 four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

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

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Mr. Deepak Pundlik	LA	YES	YES	NA	YES
Mr. Pankaj Kumar	TE	YES	YES	NA	YES
Mr. Simon Shen	TR	YES	YES	NA	NA

The complete list of CVs is included as Appendix 3 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 registered GS4GG 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 the context of verification, the GS4GG principles and requirements version 1.2, para 5.1.26 requires VVB to conduct a site visit including the assessment of the monitoring report and all supporting evidence and documents included by the Project Developer to demonstrate conformity.

The assessment team had conducted the site visit and interviewed project stakeholders.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Mr. Buri	Manish	Site incharge	22/03/2023	Project implementation, Baseline emissions, ER calculations, Sustainable monitoring, Grievance mechanism etc.	Mr. Deepak Pundlik
2.	Mr. Pandey	Manish Kumar	Senior manager – O & M	22/03/2023		
3.	Mr. Kesapragada	Simadri	General manager- Solar	22/03/2023	Employment opportunities, Trainings, Salaries etc.	
4.	Mr. Singh	Ravindra	Engineer HSE	22/03/2023	Stakeholder meeting- Employment opportunities, Standard of Livings etc.	
5.	Mr. Vamhaney	Hairshchandra	Local stakeholder	22/03/2023		
6.	Ms. Patil	Sheetal	EKI Energy Services Ltd.	22/03/2023	MR and ER calculation.	

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 03^{01/}. Specific cross-checks have been carried out in cases where 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 (CR) 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: 01, CLs: 03, FARs: 00.

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 VVB'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 2nd verification for the project activity and No FAR is raised during the previous verification. However, FARs were raised by Sustain Cert during Design review and same were closed by VVB during the last monitoring period.

03 FARs were raised as a part of design review and for the current verification, VVB checked and confirmed that all these FARs were properly addressed and continual action is taken. Since all 03 FARs were already closed during the earlier verification, VVB did not added them as a part of finding report however, it was re-confirmed during the current verification.

FAR 01 was regarding availability of rainwater drains. During 1st verification, the verifying VVB has confirmed that rainwater drains are provided which was confirmed during the current assessment too.

FAR 02 was regarding salaries paid to the local, unskilled workers and whether same are per local standards. This FAR is also closed during the 1st verification and for the current assessment, assessment team checked and confirmed from the salary slips from local, unskilled workers that they are being paid salary which is as per the local standards.

FAR 03 was regarding mandatory site visit for the 1st verification to confirm the geographical co-ordinates. Since physical site visit was conducted for the 1st verification, this FAR is already closed.

VVB checked the earlier verification report and confirmed that all 03 FARs are successfully closed during the 1st verification.

3.2 Project Implementation in accordance with the registered Project Design Document

The project activity is fully implemented according to the description presented in the registered GS4GG PDD^{/03/}. The assessment team confirms, through the site visit that all physical features of the project activity including data collecting systems and storage have been implemented in accordance with the registered GS4GG PDD^{/03/}.

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

- Interviews of onsite personnel's during site visit.
- Technical detail analysis of the equipments from the documents submitted by the manufacturer.
- Commissioning certificates of the plant
- PPA for the project activity
- Clean Solar Power (Bhadla) Pvt. Ltd. has installed solar power project at Bhadal Village, Jodhpur District, Rajasthan State, India with capacity of 300 MW.

Technical details of the plant are as follows:

The details of equipment installed at project activity are as follows:

Item	Description
Plant Capacity	300 MW
Solar PV Module	433 MWp
Module Type	Polycrystalline
Capacity of each Module proposed	335 Wp/325 Wp/315Wp
Inverter Capacity	2500 kWac
Solar Inverter	Central

Technical specifications of the Solar PV module are provided in the section B.1 of the MR^{/01/}. Same are conformed during the interviews with PP and Specification document^{/19/}, commissioning certificates^{/11/} & validation report^{/03/} found correct.

The project activity was commissioned in phased manner as confirmed during the site visit and same was verified from the commissioning certificates issued by SECI^{/11/}.

The project activity was in the normal operation during the current monitoring period and the same has been confirmed during interviews with project stakeholders and crosschecked from review of DSA (Deviation Settlement Account)^{/09/} & breakdown records^{/12/} submitted by PP. Solar power plant was working throughout the monitoring period and same has been conformed from DSA (Deviation Settlement Account) values. No unusual activates observed during the monitoring period and plant had 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 DSA (Deviation Settlement Account).

The verification team has reviewed the commissioning certificates^{/11/} & PPA^{/17/} to conclude that the capacity of the project is same as mentioned in the registered GS4GG PDD and confirmed during the site visit. The capacity of the project activity has not changed after the registration of the project activity and same have been confirmed from the commission certificate, PPA and DSA Reports issued by Northern Regional Power Committee and Invoices raised by the PP towards SECI.

Also, from review of other documents such as Commissioning certificate^{/11/}, PPA^{/17/} & DSA Report^{/09/}, it was observed that the rated capacity of the project is 300 MW. The capacity of the project is more than 15 MW and thus the same qualifies as large-scale project activity.

The solar plant is located in Rajasthan state of India. Assessment team cross-checked the location of the project activity from the registered GS4GG PDD, validation report. Thus, location provided in MR was found in line with registered documents of the project activity.

The project is connected to National electricity grid^{/17/} and the same is confirmed by the assessment team based on the review of commissioning certificate^{/11/}, PPA^{/17/} and interviews with the site personnel. The grid structure as mentioned in the GS4GG PDD^{/03/} is still applicable for the project and ex-ante emission factor as proposed in the GS4GG PDD^{/03/} is used for emission reduction calculation. Assessment team noted that the project activity has entered a power purchase agreement with the SECI^{/17/}. The electricity is fed in the Integrated Indian grid.

Thus, assessment team confirms that the project is implemented as per the registered GS4GG PDD^{/03/} and no change in project design is envisaged for the present monitoring period.

The amount of GS-VERs achieved during the present monitoring period are 3.06%^{/02/} lower than the estimated value in the GS4GG PDD^{/03/}. This is due to the less sunny days during the monitoring period, which is not in control of PP, thus accepted.

Assessment team also checked the metering details of the connected solar plant and found the same to be appropriate. Feeder details were confirmed from the interviews with site personell, and commissioning certificate submitted.

Assessment team also checked that the project is not registered under the REC mechanism of India and the same can be cross-checked at <https://recregistryindia.nic.in>. Also, International REC (I-REC) registry (<https://evident.services/device-register>) is cross-checked and found that this project is not under I-REC as well. Thus, double counting for the current monitoring period is ruled out.

Assessment team also checked the other registry like UNFCCC and VCS and found that project is not registered with UNFCCC or VCS.

Grievance Mechanism:

During the onsite interviews, the verification team confirmed that there is a grievance book/form with GS contact information at the project site office and is accessible to the local stakeholders. By checking grievance book submitted by PP, it was confirmed there are no comments received

from the local people for the present monitoring period towards project activity. Local people are happy with the implementation of the project activity as it entrusts employment and improve living standard of local people and villagers.

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 personal 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 personal 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., DSA Report 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, 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. It follows the paper trail back to the raw data such as meter reading records and invoices. There are no material errors, overestimation of ER, omission or misstatement.

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 20.0^{04/}, applied by the GS project activity.

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

3.4 Completeness of Monitoring

The monitoring has been carried out in accordance with the monitoring plan contained in the GS4GG PDD. All parameters were monitored and determined as per the monitoring plan of the GS4GG PDD as follows:

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

$EF_{OM,y}$, $EF_{BM,y}$ & $EF_{CM,y}$ was mentioned as ex-ante fixed parameter.

The values considered ex-ante for this monitoring period were cross-checked with registered GS4GG PDD^{1/} and their respective sources. The summary of all the ex-ante parameters has been given below:

Parameter/ Description	Value applied	MoV
SDG 13: Climate Action $EF_{OM,y}$ Operating Margin CO ₂ emission factor in year y	0.9568 tCO ₂ /MWh	The value of the parameter was checked from registered GS4GG PDD ^{1/} . The value of the parameter was sourced from CEA database version 16 ^{3/} .
SDG 13: Climate Action EF_{BM} Build Margin CO ₂ emission factor in year y	0.8682 tCO ₂ /MWh	The value of the parameter was checked from registered GS4GG PDD ^{1/} . The value of the parameter was sourced from CEA database version 16 ^{3/} .
SDG 13: Climate Action $EF_{CM,y}$ Combined Margin CO ₂ emission factor in year y	0.9346 tCO ₂ /MWh	The value of the parameter was checked from registered GS4GG PDD ^{1/} . The value of the parameter was calculated using CEA database version 16 ^{3/} .

The value mentioned in the Monitoring Report and Emission Reduction Spreadsheet are consistent with the registered GS4GG PDD. The applied value is correct and justified.

b. Data and parameters monitored

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

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

Relevant SDG Indicator	SDG 7.2.1: Affordable and Clean Energy
Data/parameter:	$EG_{facility,y}$
Unit	MWh

Description	Total electricity exported to the grid						
Source of data checked by the assessment team	REA data from Northern Regional Power committee ^{/09/}						
Value(s) of monitored parameter	900,443.59 MWh <table border="1"> <thead> <tr> <th>Year</th><th>EG_{facility,y}</th></tr> </thead> <tbody> <tr> <td>2021</td><td>299,745.74</td></tr> <tr> <td>2022</td><td>600,697.85</td></tr> </tbody> </table>	Year	EG _{facility,y}	2021	299,745.74	2022	600,697.85
Year	EG _{facility,y}						
2021	299,745.74						
2022	600,697.85						
Means of verification:	The parameter EG_{facility,y} is taken from REA (Regional Energy Accounting) data under DSA (Deviation Account Settlement) sheet^{/09/} issued by Northern Regional Power Committee (NRPC) of India which provides the values of week wise Net export. The same is thus used for emission reduction calculations by project developer which is found acceptable. The project activity includes metering at the substations managed by SECI. The DSA is uploaded on weekly basis and given in LU and will be converted into MWh. The electricity exported & imported are measured by Energy meters (main meter) installed at each line in substation. The reading is recorded and the difference from last month reading gives the number of units imported/exported. Meters are of 0.2s accuracy class. The export and import reading are continuous and recording frequency is <u>monthly by PD</u>. The QA/QC procedure is as per the requirement of the registered GS4GG PDD^{/03/}. The assessment team confirmed the same during the on-site visit. Assessment team checked all the values of calculated Net electricity supplied to the grid from the DSA Report (provides the value of net export) issued by NRPC. Moreover, as per the requirement of the approved methodology and registered GS4GG PDD, assessment team cross checked the net electricity value as presented in the DSA report with the invoices raised to SECI and found the values match with each other. The same is thus acceptable to the assessment team and thus emission reduction calculation is found to be correct.						
Cross check mechanism	The DSA Report is cross-checked with the invoice copies. Emission reduction calculated in thus correct and accurate. The cross-check mechanism is presented in the emission reduction calculation sheet and the same is found correct.						

Deleted: weekly

Relevant SDG Indicator	SDG 13.2.1: Climate Action						
Data/parameter:	ER_y						
Unit	tCO ₂						
Description	CO ₂ emission reduction due to implementation of project activity						
Source of data checked by the assessment team	Emission reduction sheet ^{/02/}						
Value(s) of monitored parameter	841,554 <table border="1"> <thead> <tr> <th>Year</th><th>ER_y</th></tr> </thead> <tbody> <tr> <td>2021</td><td>280,142</td></tr> <tr> <td>2022</td><td>561,412</td></tr> </tbody> </table>	Year	ER _y	2021	280,142	2022	561,412
Year	ER _y						
2021	280,142						
2022	561,412						

Means of verification:	Assessment team checked that the parameter is calculated as per the applied methodology and registered GS PDD. The electricity exported & imported is measured by Energy meter installed at substation. The DSA Report is cross-checked with the invoice copies. The net electricity is multiplied by emission factor to arrive at the emission reductions and the calculation was checked and found correct.
Cross check mechanism	All the formulas are applied in line with the registered GS4GG PDD

Safeguarding principle:	4.3.5
Data/parameter:	Hazardous Waste
Unit	tCO ₂
Description	The manufacture, trade, release, and use of hazardous chemicals and/or materials
Source of data checked by the assessment team	Plant Records
Value(s) of monitored parameter	0
Means of verification:	Assessment team checked that the parameter is measured. The waste is disposed to the waste handlers and the firm is complies with all the local laws for monitoring and disposal. The VVB team verified the plant records and observed no hazardous material used or released as waste by project activity during monitoring period
Cross check mechanism	-

Relevant SDG Indicator	SDG 8.5.1: Decent Work and Economic Growth																
Data/parameter :	Quality of employment																
Unit	Numbers																
Description	Number of Trainings provided to employees /07/																
Source of data checked by the assessment team	Plant records or the training records/07/ for all the employees/VVB interview with employees, local stakeholders etc.																
Value(s) of monitored parameter	Assessment team checked Number of Trainings provided to employees & O&M staffs. A total of 06 training programmes/7/ were conducted for the employees and O&M staff. The training records for the monitoring period is checked by the assessment team and found correct. <table><tr><td>Year</td><td>Number of Trainings</td></tr><tr><td>2021</td><td>03</td></tr><tr><td>2022</td><td>03</td></tr></table> The details of the trainings as confirmed from the training records is as below: <table><tr><td>Sr. no.</td><td>Topic</td><td>Date & No. of participants</td><td>Date & No. of participants</td></tr><tr><td colspan="4">R1</td></tr></table>			Year	Number of Trainings	2021	03	2022	03	Sr. no.	Topic	Date & No. of participants	Date & No. of participants	R1			
Year	Number of Trainings																
2021	03																
2022	03																
Sr. no.	Topic	Date & No. of participants	Date & No. of participants														
R1																	

	1	Working with electric safety	31/08/2021	11	21/09/2022	08
	2	Fire Fighting	15/04/2021	20	12/05/2022	09
	R2					
	1	Working with electric safety	25/08/2021	12	21/01/2022	13
	2	Fire Fighting	31/05/2022	13	20/10/2022	12
	R3					
	1	Working with electric safety	30/08/2021	10	29/01/2022	10
	2	Fire Fighting	09/01/2022	17	26/11/2022	16
	▼					
Means of verification:	The value for this parameter is taken from Plant records. Verification team interviewed some employees & local stakeholders.					
Cross check mechanism	Not applicable					

Deleted: Sr. no.

... [1]

Relevant SDG Indicator	SDG 8.5.1: Decent Work and Economic Growth			
Data/parameter:	Quantitative employment			
Unit	Number (employees)			
Description	Number of project employees with Number of male/female, permanent/temporary, age and person with disabilities.			
Source of data checked by the assessment team	Employment records ^{20/} for project activity/ Letter from O&M contractor ^{13/} for employment generation/VVB interview with employees, local stakeholders etc			
Value(s) of monitored parameter	Assessment team checked that for Quantity of employment. Employment is given in office work, O&M, Security etc.			
	For the current monitoring period total 42 people were employed as confirmed based on the employment records.			
	PD has provided declaration that all the employees were paid more than the minimum wages as confirmed based on sample employment records and according with the minimum wages as per state government regulation.			
	Moreover, Assessment team verified through salary slips that no discrimination made against female workers and same pay-out has been to both male and female as per their pay scale.			
	The break up of the employees is as below as confirmed during the onsite visit and submitted documents,			
	Year	Skilled	Unskilled	Total
	2021	11	2	13
	2022	22	7	29

	Total	33	9	42
	Year	Male	Female	Total
	2021	11	2	13
	2022	28	1	29
	Total	39	3	42
	Year	Local	Non-local	Total
	2021	10	3	13
	2022	22	7	29
	Total	32	10	42
Means of verification:	The value for employment created is taken from Plant employment records ^{/13/} , and PP declaration. Verification team interviewed some employees and Local stakeholders.			
Cross check mechanism	Not applicable			

c. Implementation of sampling plan

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 DSA report issued by NRPC / Invoices raised to SECI etc. and hence sampling plan was not required. The verification team hereby confirms that it has checked all the documents.

d. 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 during verification site visit interviews. The Calibration details^{/10/} are presented in Appendix 2 of this report. Calibration^{/10/} of meters carried out by a M/s Authentic Instrument and Automation Pvt. Ltd. for testing and calibration, Govt of India (<http://www.nabl-india.org/>) to carry out calibration.

Assessment team checked the same and found that the calibration done during commissioning is appropriate and correct as traceability is ensured. The meters were calibrated as per the norms of NABL and the meters are within the permissible error limit.

3.5 SDG Outcomes Monitoring

In the Registered GS4GG PDD indicators are chosen for the monitoring of sustainable monitoring:

Meth/tool	Relevant indicator	SDG	GS PDD	MR	Compliance
Quantity of net electricity supplied to the grid	SDG 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix		Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh	Yes
• Quantitative employment,	8.6: By 2030, achieve full and productive		• Training of Staff	• Training of Staff	Yes

Meth/tool	Relevant indicator	SDG	GS PDD	MR	Compliance
• Quality of employment	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		• Quantitative employment	• Quantitative employment	
Take urgent action to combat climate change and its impacts	SDG 13: Take urgent action to combat climate change and its impacts		Emission reductions achieved per year	Emission reductions achieved per year	Yes
Hazardous Waste	Safeguarding principle: 4.3.5		Hazardous Waste	Hazardous Waste	Yes

Relevant SDG outcome has been included in ER sheet and have been found correct.

During the interviews with PP, the verification team confirmed that there is a grievance book^{15/} at project site. Every stakeholder has access to the grievance register and can lodge grievance any time. Same if any is resolved as per the standard operating procedures of the company. By checking grievance book^{15/} submitted by PP, it was able to confirm there are no negative comments received from the local people for the present monitoring period. Staff complaints/grievances were addressed as per the company policies. Local people are happy with the implementation of the project activity as it entrusts employment and improve living standard of local people and villagers.

Applus+ Certification conducted an interview with the project owner and local stakeholders please find the summary of the interview as below:

Sections	Debriefing
Trainings & salaries of the employees	During verification process Mr. Sanket Bajoria, PP representative team was interviewed. It was noted that regular technical & nontechnical trainings were conducted and the salaries are in line with the industry standard.

In Summary, it is Applus+ Certification's opinion that the monitoring of the project owner 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 MWh	900,443.59 MWh	900,443.59 MWh
SDG 8: Decent Work and Economic Growth	0 Training provided to O&M Staff 0 employment generation	06 Trainings provided to O&M Staff 42 employments generation	No. of trainings conducted: 06 Trainings No. of employment opportunities created: 42 employments

Item	Baseline estimate	Project estimate	Net benefit
SDG 13: Climate Action	841,554 tCO ₂ e	0 tCO ₂ e	841,554 tCO ₂ e

Comparison of actual value of outcomes with estimates in approved GS4GG PDD

Item	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
SDG 7: Affordable and Clean Energy	741,845 MWh/year 928,828.80 MWh for current MP	900,443.59 MWh
SDG 8: Decent Work and Economic Growth	01 trainings provided to O&M Staff 36 employment generation	06 Trainings provided to O&M Staff 42 employments generation
SDG 13: Climate Action	693,327 tCO ₂ e/year 868,083 tCO ₂ e for current MP	841,554 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, version 03⁰¹/ and corresponding ER calculation spread-sheet and are consistent with the applied methodology ACM0002 Version 20.0 and the monitoring plan contained in the registered GS4GG 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 03⁰¹/ and corresponding ER calculation spread-sheet. 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 using equation below:

$$BE_y = EG_{PJ, facility, y} \times EF_{grid, CM, y}$$

$$EG_{PJ, y} = EG_{facility, y}$$

$$BE_y = 900,443.59 \times 0.9346$$

$$= 841,554 \text{ tCO}_2\text{e (round down figure)}$$

Project emissions:

The project is a solar power project, no fossil fuel is be consumed according to the methodology ACM0002, version 20.0 & according to registered GS4GG PDD, PE_y = 0 tCO₂e

Leakage:

As per ACM0002, version 20.0, No leakage emission needs to be considered.

Emission reductions:

Thus, the emission reductions are:

$$ER_y = BE_y - PE_y$$

$$= 841,554 - 0$$

$$= 841,554 \text{ tCO}_2\text{e}$$

The amount of GS-VERs achieved during the present monitoring period are 3.06% lower than the estimated value in the GS4GG PDD. This is due to the Less sunny days during the monitoring period. Same is not in control of project participants. Hence accepted by assessment team.

3.7 Management and Operational System

The responsibilities of data measurement, collection, verifying, archiving etc. have been clearly defined in the registered GS4GG 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^{/02/} 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 registered GS4GG PDD^{/03/}.

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 GS4GG PDD^{/03/}. 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 VERs 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 13/03/2023 Final Monitoring report version 03 dated 06/04/2023
2.	ER sheet, version 01 dated 13/03/2023 ER sheet, version 03 dated 06/04/2023
3.	Registered GS4GG PDD Version 05 dated 15/01/2022, Final GS Validation report version 03 dated 15/01/2022 GS Design & performance review documents
4.	ACM0002: Grid-connected electricity generation from renewable sources, version 20.0
5.	CDM validation and verification standard for project activities, version 03.0 GS4GG validation and verification for project activity, version 01
6.	GS4GG guidelines
7.	Training records of the employees (both skilled/non-skilled)
8.	Operation & Maintenance policy
9.	Monthly reports issued by state utility and invoices raised by PP for the complete monitoring period
10.	Calibration certificates of the complete monitoring period
11.	Commissioning certificates for solar power plant
12.	Log book records for scheduled maintenance of the solar power plant for the complete monitoring period
13.	Sample work contract for both skilled and non-skilled manpower
14.	CSR report
15.	Grievance register
16.	HSE procedures
17.	Power purchase agreements
18.	O&M agreement
19.	Technical manual from the Manufacturer
20.	Employment records

5. FINAL VERIFICATION STATEMENT

Applus+ Certification has been engaged by Clean Solar Power (Bhadla) Pvt. Ltd. to perform the 2nd verification of the "300 MW Solar PV Plant at Bhadla, Rajasthan" (GS Ref. No. GS7726).

The management of Clean Solar Power (Bhadla) Pvt. Ltd. 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 GS4GG PDD and the applied methodology ACM0002 Version 20.0.

Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board and Gold Standard. 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. A reasonable level of assurance has been achieved during this verification. The verification can confirm that:

- the project is operated as planned and described in the project design document and GS4GG PDD approved by the EB and GS;
- the monitoring plan is as per the applied methodology;
- the monitoring in Monitoring Report is as per the GS4GG PDD and the monitoring plan approved by the EB and GS;
- the development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.

In our opinion, the GHG emission reductions for "300 MW Solar PV Plant at Bhadla, Rajasthan" for the monitoring period 01/08/2021 to 31/10/2022 (Both days included) as reported in Monitoring Report, prepared on the basis of the project's Monitoring Plan are fairly stated.

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

Reporting period: 01/08/2021 to 31/10/2022 (Both days included)

Verified emissions in the above reporting period:

Leakage emissions	0 tCO ₂ e equivalents
Project emissions	0 tCO ₂ e equivalents
Baseline emissions	841,554 tCO ₂ e equivalents
Emission reductions	841,554 tCO ₂ e equivalents

Vintage wise breakup of verified emission reduction is given below:

Year	Baseline emission (tCO ₂)	Project Emission (tCO ₂)	Emission Reduction (tCO ₂)
01/08/2021 to 31/12/2021	280,142	0	280,142
01/01/2022 to 31/10/2022	561,412	0	561,412
Total	841,554	0	841,554

Date: 10 /05/2023

Lead Auditor: Mr. Deepak Pundlik

Tech. Expert: Mr. Pankaj Kumar

Tech. Reviewer: Mr. Simon Shen

Approver (*Applus+ Certification VVB Technical Manager*)

Mr. Agustín Calle de Miguel

ASSESSMENT TEAM	
Lead Auditor: Deepak Pundlik	Technical Reviewer: Simon Shen
Signature: 	Signature:
Approver: Mr. Agustín Calle de Miguel	
Signature:	

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

Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	01
Raised by:	Mr. Deepak Pundlik	FVeR Section:	3.2
Description of the audit finding	Date: 23/03/2023		
1. Section B.1 of MR version 01 dated 13/03/2023 mentions "The project activity is operating at a plant load factor of 28.37 % exporting 741,845 MWh of electrical energy to the Indian grid, throughout its entire life span of 25 years. As per submitted ER sheet, the project activity for current monitoring period has generated 900,443.59 MWh. PP to clarify the appropriateness of the value mentioned for ele. Generation. 2. Table 2 of GS4GG MR version 01 dated 13/03/2023 requires to provide units of SDG in line with GS4GG MR template. Same are missing in the submitted MR.			
Project Developer's response		Date:	27/03/2023
1. Section B.1 of MR have been updated. 2. Table 2 of GS4GG MR has been updated.			
Documentation provided as evidence by Project Developer			
1. MR V02			
VVB assessment	Date: 28/03/2023		
1. Revised MR version 02 dated 27/03/2023 was checked and found that PP has updated electricity generation in section B.1 as mentioned in the ER sheet that is "The project activity for the current monitoring period is operating at a plant load factor of 27.37 % exporting 900,443.59 MWh of electrical energy to the Indian grid,. This is resulting in average annual reduction of 841,554 tCO2 per annum from the project activity. The project activity does not involve any technology transfer". It is found appropriate and accepted by the VVB. Hence this part of CL is closed. 2. Revised MR versión 02 dated 27/03/2023 was checked and found that PP has updated units of SDGs in the Table 2 of GS4GG MR. It is found appropriate and accepted by the VVB. Hence this part of CL is closed.			
CL is closed			

Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	02
Raised by:	Mr. Deepak Pundlik	FVeR Section:	2.3
Description of the audit finding	Date: 23/03/2023		
Section G.3 of MR version 1 dated 13/03/2023 mentions that during the current monitoring period, there were no comments/feedbacks received in the grievance register. PP to submit the grievances register for the current monitoring period to confirm the same.			
Project Developer's response		Date:	27/03/2023
Grievances register has been submitted.			
Documentation provided as evidence by Project Developer			
Grievances register			
VVB assessment	Date: 28/03/2023		

PP has submitted Grievances register, it was checked and found that there were no comments/feedback received in the grievance register during the monitoring period which is "01/08/2021 to 31/10/2022". The same was also confirmed during the site visit hence found appropriate and accepted by the VVB.

CL is closed.

Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	03
Raised by:	Mr. Deepak Pundlik	FVeR Section:	3.5
Description of the audit finding	Date: 23/03/2023		
1. Section D.2 of MR version 01 dated 13/03/2023 under SDG 8.5.1 mentions that 3 people are employed at the project site. PD to provide employee records/O&M contractor data to confirm the same. Further, as per the registered PDD, PD to provide 36 jobs per year while for the current monitoring period, jobs offered are 3 nos. PDD also mentions that the parameter will monitor male/women employed, job is of type temporary/permanent or skilled/unskilled and local/non-local. The submitted MR does not provide this information. 2. Section D.2 of MR version 01 dated 13/03/2023 under SDG 8.6.1 mentions that 1 training per year was conducted. PD is requested to provide training records to confirm the same. Further, table 1 in the MR mentions 4 trainings were conducted which is not line with data presented in section D.2.			
Project Developer's response		Date: 27/03/2023	
1. Section D.2 of the MR has been updated and employments records have been submitted. 2. Training records has been submitted and section D.2 of MR has been updated.			
Documentation provided as evidence by Project Developer			
1. Attendance sheet and MR V02 2. Training records and MR V02			
VVB assessment		Date: 28/03/2023	
1. Revised MR version 02 dated 27/03/2023 and the submitted attendance sheet was checked. It was noted that actual employment during the current monitoring period is 42 persons which was confirmed during the site visit. However, revised MR does not provide information about job type, male/female no. and local/non local employed persons. Hence this part of CL is open. 2. Revised MR version 02 dated 27/03/2023 and the submitted training records were checked and found that in section D.2, PP has mentioned "Environmental safety; Date 25/11/2021; No. of participants-10 and Spillages at oil from oil drum; No. of participants- 08". Whereas in the submitted documents "Environmental safety; Date 25/12/2021; No. of participants-08 and Spillages at oil from oil drum; No. of participants- 05" is mentioned. It is not appropriate as per the Training records, Hence this part of CL is open.			
CL is open.			
Project Developer's response		Date: 06/04/2023	
1. MR has been revised as per the requirement.			

2. MR has been updated.	
Documentation provided as evidence by Project Developer	
1. Revised MR version 03 dated 06/04/2023.	
2. Revised MR version 03 dated 06/04/2023.	
VVB assessment	Date: 10/04/2023
1. Revised MR version 03 dated 06/04/2023 was checked to confirmed that revised section D.2 now provides information about job type, male/female no. and local/non local employed persons under data/parameter – Quantitative employment which is confirmed based on the submitted documents and hence accepted. Hence this part of CL is closed.	
2. Revised MR version 03 dated 06/04/2023 was checked to confirm that the information provided is in line with the submitted documents and hence acceptable. Hence this part of CL is closed.	
CL is closed.	

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	01
Raised by:	Mr. Deepak Pundlik	FVeR	3.4
Description of the audit finding		Section:	
As per section D.2 of MR version 1 dated 13/03/2023, energy meters will be calibrated every 5 years. The current energy meters are calibrated on 23/06/2021. Thus, the validity of calibration is until June, 2026. In Appendix 1, The due date of the Calibration is mentioned as 22/05/2026.		Date:	23/03/2023
Project Developer's response		Date:	27/03/2023
Appendix 1 of the MR has been updated.			
Documentation provided as evidence by Project Developer			
MR V02			
VVB assessment	Date: 28/03/2023		
Revised MR version 02 dated 27/03/2023 was checked to confirm that PD has updated the due date of the Calibration in Appendix 1 as "22/06/2026". CAR is closed.			

Appendix 2: Calibration details of monitoring meters

Details of Meter Calibration:

Meter Type	Meter SI. No.	Meter Make	Accuracy Class	Date of Calibration	Due date for Calibration	Calibration Compliance
Main meter	2106286	G Tech	0.2 s	23/06/2021	22/65/2026	No delay Observed
Main meter	E8272938	KYORITSU		23/06/2021	22/06/2026	
Main meter	19090774	Amprobe		23/06/2021	22/06/2026	
Check meter	NA	Fluke		23/06/2021	22/06/2026	
Check meter	R190000453	AIT501		23/06/2021	22/06/2026	
Check meter	R190014149	AET23		23/06/2021	22/06/2026	

Appendix 3: Audit Team CVs

Name	SHORT CV. BACKGROUND INFORMATION
Deepak Pundlik	Deepak Pundlik has experience in climate change, waste management and environmental management. After completing Masters in Environment Sciences from Pune university, He has worked in waste management field. As a GHG consultant, He handled projects under renewable energy, waste management sectors during his stint with companies - MITCON and Thermax. Post Thermax, Deepak was involved in organic farming research project with Tata Institute of Social Sciences. As a GHG auditor, He has validated/verified projects under CDM/VCS/GS and GCC mechanisms from renewable energy, energy demand, waste management sectors.
Pankaj Kumar	Pankaj Kumar worked as team leader – Bihar for South Asia Climate Proofing and Growth Development (CPGD) – Climate Change Innovation Programme (CCIP) supported by DFID that seeks to mainstream climate change resilience into planning and budgeting at the national and sub-national level in India, Pakistan, Nepal, and Afghanistan. Pankaj Kumar has worked previously with IL&FS Infrastructure Development Corporation and BUIDCO (Bihar Urban Infrastructure Development Corporation), Govt. of Bihar as Environmental Specialist for WB & ADB funded projects. Prior to this, he worked with Carbon Check (UNFCCC accredited DoE), Johannesburg, RSA as Team Leader for validation, verification of around 100 GHG projects in Asia, Africa, USA, Asia Pacific & Americas. Pankaj is accredited Lead Auditor, Validator, Verifier and Technical Expert for Sectoral Scope/Technical Area – 1.1, 1.2, 3.1 & 13.1 by UNFCCC DoE (Designated Operational Entity), APPLUS, Spain. He is also member of task force on climate change & human health, Health Department, GoB and on roster of UNICEF's WASH experts. He is an experienced, qualified and result oriented Environment Professional having more than 14 yrs. of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Validation and Verification of GHG project under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He provides technical support for environmental investigative, consultative and remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing. Pankaj Kumar is Masters in Environment Management from Forest Research Institute (University), I.C.F.R.E, Dehradun, which is Centre of Excellence in South East Asia for Forestry education & research and PGDEL from National Law School of India University, Bangalore (India).
Simon Shen	Mr. Simon Shen (Master Degree in Thermal Energy Engineering, Bachelor Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 3.5 years before he joined Applus+. He has extensive experience also as former Applus+ Shanghai CDM Technical Manager. Mr. Simon Shen is based in Shanghai, China. Mr. Simon Shen participates in the project's technical review team.

