LGAI Technological Center, S.A.
Campus UAB – Ronda de la Font del Carme, s/n
08193 Bellaterra – Barcelona
(Spain)
Tel.: +34 93 567 20 08
Fax.: +34 93 567 20 01
www.appluscertification.com

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

Project Title:	10 MW Solar Photovoltaic Power Plant in Rajkot, Gujarat (India)
Monitoring Period:	01/01/2020 to 30/12/2022 (both days inclusive)
GS project ID:	7792
Internal ID:	BELL_GS_VER_10123
Customer:	Green Infra Solar Energy Limited
Date:	10/02/2025
Revision:	02

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(Spain)
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Fax.: +34 93 567 20 01
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SUMMARY			
Reference No.	**Date** *(first version)*	**Version No.**	**Date** *(last version)*
BELL_GS_VER_10123	31/08/2024	02	10/02/2025

GS4GG Verification	
GS4GG Certified Product *(sought)*:	GHG Emission Reductions
GS4GG SDG Impact Statement *(sought)*:	Not applicable

General Information	
Client	Green Infra Solar Energy Limited
Project Title	10 MW Solar Photovoltaic Power Plant in Rajkot, Gujarat (India)
Project Participants	Green Infra Solar Energy Limited
Project Location	Rajkot district of Gujarat in India
Contact Person	Mr.Rajeev Kumar Singh
Monitoring Period:	01/01/2020to 30/12/2022 (both days included)

GS4GG Principles & requirements version: 1.2 GS4GG VVS Version: 01 GS4GG Activity Requirements: Renewable Energy Activity Requirements GS4GG v1.2 Applied Methodology Version: AMS-I.D: Grid connected renewable electricity generation, Version 18.0 Current Methodology Version: AMS-I.D: Grid connected renewable electricity generation, Version 18.0	GS4GG Sectoral Scope: 2 UNFCCC CDM Sectoral Scope: 1 Technical Area: 1.2
Published Monitoring Report Version: 01 Date: 09/02/2024	Final Monitoring Report Version: 05 Date: 04/02/2025
Certified Project Design Document Version: 2.1 Date: 04/02/2022	

Estimated Annual Emission Reductions: 16,379 tCO2
Achieved values for each SDG for the monitoring period:

SDGs	Value
SDG 13: Climate Action	43,046 tCO2
SDG 7: Affordable and Clean Energy	46,058 MWh
SDG 8: Decent Work and Economic Growth	16 Jobs ,12 trainings

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

Verification Summary

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by Green Infra Solar Energy Limited, has performed the independent verification of the emission reductions for the GS Project 7792 "10 MW Solar Photovoltaic Power Plant in Rajkot, Gujarat (India)" in "India "applying the methodology AMS I.D, Version 18. The management of Green Infra Solar Energy

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SUMMARY			
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Limited is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

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

(a) The registered PDD including the monitoring plan and the corresponding validation report.
(b) Monitoring report(s);
(c) The applied monitoring methodology.
(d) Relevant decisions, clarifications, and guidance from the CMP and the CDM Executive Board.
(e) GS4GG Principles & requirements version 1.2.
(f) All information and references relevant to the project activity's resulting in emission reductions.
(g) Evidence for SD monitoring plan
(h) Training Records of Project staff
(i) HR employment records of the Project staff on site

The project activity involves electricity generation by solar power and supplying the same to the Indian grid. This is renewable energy generation which will replace the fossil fuel dominated grid connected electricity generation. The project activity results in reductions of greenhouse gas (GHG) emissions that are real, measurable, and verifiable and plays beneficial role in the mitigation of climate change.

The project activity involves the installation of 10 MW solar power project Meravadar village of Rajkot district in Gujarat, India. The project activity was commissioned on 11/11/2011 as verified against the commissioning certificates. The same was verified against the commissioning certificates/11/.

Applus+ Certification confirms that the project is implemented in accordance with the approved transition annex and GS PDD. The monitoring plan complies with the applied methodology AMS I.D Version 18 and the GS4GG Principles & requirements Version 1.2. 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 43,046 tCO_2e emission reductions during period 01/01/2020– 30/12/2022.

ASSESSMENT TEAM		
Team Members	**Type of Resource**[1]	**Organization** *(for Oes)*
Lead Auditor and Verifier: Ravi Kant Soni	☐IR ☒EI ☐OE	-
Technical Expert/Country Expert: Ravi Kant Soni	☐IR ☒EI ☐OE	-
Technical Reviewer/ Technical Expert: Ms. Karen Vega	☒IR ☐EI ☐OE	-

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

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ABBREVIATIONS	
ACM	Approved Consolidated Methodology
AM	Approved Methodology
AMS	Approved Methodology Small Scale
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
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
REA	Regional Energy Account
UNFCCC	United Nations Framework Convention for Climate Change
VVB	Validation and Verification Body
VVS	Validation and Verification Standard
WRPC	Western Regional Power committee

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1. INTRODUCTION

1.1 Objective

This verification is an independent and objective review for the GS4GG requirement, of the emission reductions achieved by the project activity "10 MW Solar Photovoltaic Power Plant in Rajkot, Gujarat (India)" (GS-7792), for the period 01/01/2020 to 30/12/2022.

The verification report addresses the implementation and operation of the GS PA and tests the data and assertions set out in the monitoring report based on the following:

(a) The registered GS PDD/01/

(b) Approved transition annex (TRF) 1.1/

(c) The approved methodology mentioned in the PDD/28/

(d) UNFCCC criteria referred in the Kyoto Protocol criteria and the CDM modalities and procedures as agreed in the Bonn Agreement and the Marrakech Accords

(e) The latest GS4GG Principles & Requirements guidelines version 1.2 /07/

(f) GS4GG VVS version 1.0 /09/

(g) The Gold Standard for the Global Goals Safeguarding Principles & Requirements/07/,

(h) The Gold Standard for the Global Goals Renewable Energy Activity Requirements/08/,

(i) The Gold Standard for the Global Goals Stakeholder Consultation and Engagement Requirements /32/

(j) GHG Emissions Reduction & Sequestration Product Requirements v 2.2 /9.1/

(k) Validation and Verification Body requirements v 02 /31/,

(l) Any other decisions taken by the Technical Advisory Committee of GS (GS-TAC),

(m) other relevant rules, including the host country legislation.

The verification has considered both quantitative and qualitative aspects on stated/reported emission reductions. The monitoring report (all versions) and corresponding supporting documentation was assessed in accordance with the rules defined by UNFCCC/GS4GG, as appropriate to the PA. The verification is not meant to provide any consulting or recommendations to the PD/others. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the monitoring activities.

1.2 Scope

The verification scope encompasses an independent and objective review for the Gold Standard for the Global Goals (GS4GG) version 1.2 requirements of the emission reductions achieved for the project activity.

The verification is based on the submitted monitoring report, the validated and registered PDD and its validation report, the applied monitoring methodology, relevant decisions, clarifications, and guidance from the CMP and the EB, The GS4GG Version 1.2 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, The Gold Standard for the Global Goals version 1.2 and related rules and guidance.

Based on the requirements in the CDM VVS version for PAs version 03.0 as well as the GS4GG Principles & Requirements version 1.2, 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 process involved the following.

- Contract with Green Infra Solar Energy Limited for the scope of verification.
- Submission of monitoring report and supporting documents
- Desk review
- Physical on-site inspection
- Issuance of verification findings
- Reporting, calculation checks, QA/QC and resolution of findings
- Issuance of draft verification report
- Independent technical review of the project documentation
- Issuance of the final verification report

1.3 Description of the project activity

Project activity:	10 MW Solar Photovoltaic Power Plant in Rajkot, Gujarat (India)
Gold Standard registration number:	7792
Project Participant(s):	M/s Green Infra Solar Energy Limited
Location of the project:	Rajkot district of Gujarat, India. Geographic coordinates (Verified by site visit and Google Map): latitude 21° 44′ 11.16″ N and longitude 70° 7′ 11.19″ E.
Date of registration:	13/02/2022
Starting date of the crediting period:	22/01/2019

The project activity involves electricity generation by solar energy and supplying the same to the Indian electricity grid. This is renewable energy generation which can replace the fossil fuel dominated grid connected electricity generation.

The project activity involves the installation of a 10 MW Solar Photo Voltaic (PV) power plant in the state of Gujarat. The purpose of the project is to generate the electricity from solar power as renewable source, to supply the Indian Grid system of India.

The generated electricity is evacuated to Gujarat state grid substation. The project activity generates power using solar energy, thus resulting in zero emissions during electricity production. The power produced displaces an equivalent amount of power from the grid, which is fed mainly by fossil fuel fired power plants. Hence, it results in a reduction of GHG emissions.

Annual reporting:

The project design certification has been approved on 13/02/2022 and undergone transition from GS CER to GS VER during 2023, approved in Jan 2024. Since the verification (period 01/01/2020 to 30/12/2022 was also undergoing during 2023-24 but not completed, hence the PD has submitted annual reports following the guidleines as outlined under paragraph 5.1.39 of "PRINCIPLES & REQUIREMENTS" V 02.

Double counting of carbon credits:

a) The project activity is registered under CDM (UNFCCC ref. No-8917) but not registered under any other emissions trading program or any other mechanism that includes GHG allowance trading. The assessment team has checked the same through registry websites/30/.

b) The project activity has not sought or received any renewable energy certificates, during this monitoring period. This is verified through the list of registered projects published at official website of Government of India (https://recregistryindia.nic.in/).

c) The project is not registered under international REC Mechanism e.g. I-REC Device Registry and the same is confirmed through the i-REC web site (https://v-1.evident.app/Public/ReportDevices/)

The assessment team can confirm that there is no double counting of credits is anticipated in the current monitoring period.

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 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, 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, , 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 of this assessment.

2.1 Appointment of the assessment team

According to the applicable sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed an assessment team in compliance with the Contract Review and Assessment Team appointment rules in the internal Quality Management System of Applus+ Certification as well as in compliance with the applicable requirements in the Accreditation Standard.

The composition of the Assessment Team (Applus+ Certification's validation team) has been approved by Applus+ Certification during the Contract Review process ensuring that the required skills and capabilities are covered.

The qualification levels for Assessment Team members that are assigned by aforementioned appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Country Expert (CE)
- Technical Reviewer (TR).

- Any of the above-mentioned roles in training (iT, e.g. AiT for auditor in training).

The Sectoral Scopes / Technical Areas required knowledge linked to the applied methodology(ies) is covered by the Assessment Team as shown below:

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Ravi Kant Soni	LA/TE/CE/Verifier	Yes(1)	Yes (1.2)	NA	Yes
Ms. Karen Vega	TR/TE	Yes(1)	Yes (1.2)	NA	Yes

The complete list of CVs is included as Appendix 3 of this report.

It is to be noted that the VVB has performed validation activity for the given activity. The VVB audit team, including full names of all the team members and their roles in the validation audit are provided on the table below.

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Mr. Atul Takarkhede	LA/TE/Verifier/CE	Yes(1)	Yes (1.2)	Yes	Yes
Mr. Simon Shen	TR	Yes(1)	Yes (1.2)	Yes	Yes

2.2 Document review

The Gold Standard Monitoring Report version 1.0 03/ 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 PDD and transition annex; 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 was paid;

-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.

A complete list of documents reviewed is available in section 4 of this report.

2.3 On site assessment and follow up interviews

As a part of the verification, the site inspection has been performed by the assessment team on 28/06/2023.

Interviews with project participants:

Interviewed Personnel	Functions	Organization	Topics
Ms. Shivanjali Mishra	Deputy Manager	GISEL	-General aspects of the project - Project Design - Project started construction and operation time - Project Equipment Monitoring equipment
Mr. Hitesh Shiyal	Manager	GISEL	- Project Technical process - Equipment Technical parameters
Mr. Milan. P	Senior Engineer	O&M	- Project implementation status - Quality management system - Involved personnel and responsibilities -waste disposals
Mr. Pawan Nayak	Asset Manager	O&M	-Training and practice of the monitoring personnel -Employment created -Health, Safety and Working Conditions -Salary and other benefits

As a part of verification assessment, a comprehensive interaction with stakeholders was also done during the site visit on 28/06/2023.

The Verification team has interviewed the local stakeholders, and they were questioned for various topics as summarized below;

i. Effect of project on their livelihood and income
ii. Any problem related to project installation in nearby areas.
iii. Are they happy with the benefits and development as CSR activity of the PP?
iv. General feedback about the project
v. Do they know about the grievance and feedback back register/mechanism?
vi. Any feedback; Concern (C) Positive (P) and Negative (N)

S. No.	Name of stakeholder	Affiliation	Feedback (Positive/Negative/Concerns)
1	Ashwin Solanki	Local Villager	Positive
2	Raj Sumra	Local Villager	Positive
3	Abdul Kadar	Local Villager	Positive
4	Chetana Joshi	Local Villager	Positive
5	Pooja Rathod	Local Villager	Positive
6	Raja Bhai Rabari	Local Villager	Positive
7	Prakash Maheshwari	Local Villager	Positive
8	Satyam Patel	Local Villager	Positive

Note: In line with the requirements of GS4GG VVS V02, clause 9.7.2 (e), the assessment team has obtained consent (verbally) from interviewees (villagers and employees) to disclose their private information, such as names, on the Gold Standard Impact Registry.

2.4 Quality of evidence

Sufficient evidence covering the full verification period in the required frequency is available to verify the figures stated in the final MR. The source of the evidence will be discussed in section 4 of this report. 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:

a) 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;

b) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;

c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;

d) 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 requirements have been met.

All CARs and CRs 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.

All CARs, CRs and FARs for this verification period are included in Appendix 1 of the verification report.

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 must be finally approved either by the VVB's Technical Manager or the Deputy. In case one of these two persons is part of the assessment team, the 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.

Consideration of materiality in conducting the verification:

The project activity is small- scale project and applicable threshold for materiality in accordance with CDM VVS for PAs Version 03.0 paragraph 326(d) is 5%. All the monthly reported figures for parameter **$EG_{PJ,y}$** were verified with respective monthly share certificates and were found to be consistent. Therefore, it can be stated that the verified value is free from any potential error / omission / misstatement. The project activity, being a wind energy project, has assumed the project emission and leakages to be zero which is in line to the applied methodology and is also reasonable in the opinion of assessment team. Therefore, there are no additional factors which might lead to introduction of error in emission reduction estimation.

3. VERIFICATION FINDINGS

Areas of verification findings	No. of CR	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	-	-	-
Compliance of the project implementation with the registered PDD	-	-	-
Post-registration changes	-	-	-
Compliance of the SDG monitoring plan with the monitoring methodology including applicable tool and standardized baseline	-	CAR#2	-
Compliance of monitoring activities with the registered monitoring plan	-	CAR #1	-
Compliance with the calibration frequency requirements for measuring instruments	-	-	-
Assessment of data and calculation of emission reductions or net removals	-	CAR #3	-
Implementation of Grievance Mechanism		CAR #4	
Others (Editorial error)	CR #1 and CR#2	-	FAR #1 (site visit Requirements)
Total	02	04	01

3.1 FARs from Validation / Previous Verification

There is FAR raised by SC during the transition review.

FAR #1 Verifying VVB shall comply with section 3 of "SITE VISIT AND REMOTE AUDIT REQUIREMENTS AND PROCEDURES" V2.0.Kindly refer Appendix-1 for further details..

3.2 Project Implementation in accordance with the registered Project Design Document

Means of verification	This project activity is the generation of electricity from solar PV supplying the generated electricity to the Indian grid. The project is in Rajkot district of Gujarat state in India and has an installed capacity of 10 MW. This was confirmed through the commissioning certificate/11/. The commercial operation of the project activity had been started on 11/11/2011, which was verified vide commissioning certificate/11/. The technical specifications of equipment's (Solar PV module, Invertor, transformers) were verified through the nameplate details (imprinted/placed at the equipment) physically checked during the site visit and were found to be consistent with the details provided in the registered PDD /01/. The project is located between latitude 21° 44' 11.16" N and longitude 70° 7' 11.19" E. Location of the project was verified through Google Map (https://www.google.co.in/maps) and found consistent with the same mentioned in the registered PDD and MR.

	The PP has signed PPA/23/ with state utility for the sale of electricity to the grid and has been supplying electricity in compliance with the PPA as confirmed from the monthly invoices/21/. The project was registered as a CDM project on 31/12/2012 /20/. The PP has considered a fixed crediting period for the project activity from 31/12/2012 to 30/12/2022. This is the first verification of the project activity under GS covering the period from 01/01/2020 to 30/12/2022. The project developer has implemented the grievance mechanism in line with the registered GS PDD, this is confirmed through inspection of relevant records (grievance register) and the interactions with the local stakeholders during the site visit. The project implementation, with reference to GS PDD, was checked during the physical inspection of project site and confirmed the following: i. The monitoring system including the measurement of parameters, data collection and archiving was also implemented and operated inline to the GS PDD. ii. The emission reduction was achieved in compliance with applied methodology, GS PDD. The project contributes to the sustainable development which includes, but not limited to, enhancement of local economy, creating employment and many other benefits to the rural population. The project activity is reducing the GHG emissions generated by the current generation energy mix in India's Power Grid, which is dominated by fossil fuel-based grid connected power plants. The power generated through the proposed project activity being supplied to Indian grid through contractual arrangement (PPA). The technical specification of the project activity equipment's has been checked during the site visit and are found to be consistent with the details as mentioned under section B.1 of MR. The status of the project activity is verified through the physical inspection of SCADA system, indicating the real-time generation data and hence it is confirmed that the project is fully functioning. As verified during the physical inspection of project site that the project activity is connected to 66 kV DISCOM substation where the generated electricity is fed to the Indian grid. There are 2 main and 2check meters installed at substation and the data recorded through these meters used for share certificate preparation. Monthly values of $EG_{PJ,y}$ obtained directly from the monthly share certificates /20/. The invoicing being done against electricity supplied by the project plant. The measurement results are cross checked with records of invoices, and it is in line with applied methodology. Thus, this parameter is considered in emission reduction calculations.
Findings	No issues identified in section hence finding was not raised.
Conclusion	• In view of the information's verified during the site visit, the verification team can confirm that all physical features (technology, project equipment, and monitoring and metering equipment) of the registered GS project activity are in place and that the project participants have operated the project activity as per the registered GS PDD.

	• No information regarding data and variables was identified that may surpass the estimated quantity of ERs in the registered GS PDD. • The emission reductions achieved during the current monitoring period are (43,046 tCO_2e), that is 12.40% lower than the estimated quantity (49,137 tCO_2e) in the registered GS PDD for the comparable period. Further explanation for the decrease in the actual ERs is provided under section E.8.6 of this report.

3.3 Compliance of the Monitoring Plan with the Monitoring Methodology

Means of verification	The monitoring plan as contained in the registered GS PDD/01/ was reviewed against the monitoring requirements of the applied methodology AMS I.D version 18.0/28/. Based on this review it was found that the monitoring plan contained in the registered PDD includes all the required parameters to be monitored in the context of project design and description and allows proper determination of emission reductions in accordance with the PDD /01/ and applied methodology AMS I.D version 18.0. /09/. During the site visit, the assessment team has observed that the project activity has a dedicated metering arrangement at the project site. There is two set of energy meters (Main and check meter) installed at site and electricity exported and imported by the project activity is continuously monitored through these meters. The project activity is further connected at 66 kV DISCOM substation where the generated electricity is fed to the Indian grid. Values of the parameter "$EG_{PJ,y}$" is directly sourced from the monthly "Share certificate" (JMRs) provided by GETCO . The share certificates are prepared and endorsed by GETCO, an external government agency and the PP has no influence in the entire procedure. Hence, the data issued by the state electricity board through the share certificates are deemed authentic. During the site visit, it was confirmed that the project activity is connected to the grid through an appropriate power evacuation system. Appropriate metering system and calculation procedures are transparently described in the monitoring plan to enable accurate determination of emission reductions achieved by the project activity.
Findings	No finding was raised
Conclusion	The monitoring plan outlined in the GS PDD is in accordance with the applied methodology /09/ and correctly applied by the project activity.

3.4 Completeness of Monitoring

Data and parameters fixed ex ante or at renewal of crediting period:

Relevant SDG Indicator 13: Take urgent action to combat climate change and its impacts

Operating Margin CO2 emission factor in year y ($EF_{grid, OM, y}$,tCO_2e/MWh):

Means of verification	The value of this parameter is considered as 0.9568. This was checked with the registered PDD /01/ and CO_2 Baseline Database for Indian

	Power Sector", version 16 published by the Central Electricity Authority, Ministry of Power, Government of India.
Findings	No finding was raised
Conclusion	The value in the monitoring report /04/ and corresponding emission reduction calculations spreadsheet /06/ are consistent with the registered PDD (page 21). The applied value is correct and justified.

Build Margin CO2 emission factor in year y ($EF_{grid,BM,y}$, tCO_2e/MWh):

Means of verification	The value of this parameter is considered as 0.8682. This was checked with the registered PDD /01/ and CO_2 Baseline Database for Indian Power Sector", version 16 published by the Central Electricity Authority, Ministry of Power, Government of India.
Findings	No finding was raised
Conclusion	The value in the monitoring report /04/ and corresponding emission reduction calculations spreadsheet /06/ are consistent with the registered PDD/01/ (page 22). The applied value is correct and justified.

Combined Margin CO2 emission factor in year y ($EF_{grid, CM,y}$, tCO_2e/MWh):

Means of verification	The value of this parameter is considered as 0.9346. This was checked with the registered PDD /01/ and CO_2 Baseline Database for Indian Power Sector", version 16 published by the Central Electricity Authority, Ministry of Power, Government of India.
Findings	No finding was raised.
Conclusion	The value in the monitoring report /04/ and corresponding emission reduction calculations spreadsheet /06/ are consistent with the registered PDD/01/ (page 22). The applied value is correct and justified.

3.5 SDG Outcomes Monitoring

Parameter 1:

Quantity of net electricity supplied to the grid during the year y, $EG_{PJ, y}$ (MWh)

Relevant SDG Indicator 7.2.1: Renewable energy share in the total final energy consumption

Means of verification

Criteria/Requirements	
Measuring /Reading /Recording frequency	The parameter is measured and recorded on monthly basis in line with the approved monitoring plan.
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes. In line with the approved monitoring plan, this parameter is recorded on monthly basis in the share certificates issued by GETCO/20/.
How were the values in the monitoring report verified?	The data transfer process for the said parameter is as follows:

		The Joint meter reading at the metering points at the 66 kV DISCOM substation is taken by the representatives of DISCOM (GETCO) in the presence of PP officials in the form of JMRs. Based on the data recorded at both the metering points, share certificate for the project developer is prepared by state utility (DISCOM). Cumulative value of $EG_{PJ,y}$ for entire monitoring period is reported in the monitoring report, however monthly values are reported in the ER calculation sheet. The monthly values were verified from the share certificates issued by state utility and found to be consistent. Value of this parameter for the current monitoring period is 46,058 MWh.
	If applicable, has the reported data been cross-checked with other available data?	Monthly reported values of $EG_{PJ,\ y}$ for the current monitoring period were further cross-checked with the monthly invoices raised by the PP /21/ and found to be consistent.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, all the stakeholders, namely, the Grid Authority and thePD, implemented the adequate QA/QC procedures.
Findings	CAR #1 was raised and resolved	
Conclusion	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan.	

Parameter 2: Emissions Reductions (tCO_2)

Relevant SDG Indicator 13: Integrate climate change measures into national policies, strategies and planning

Means of verification	**Criteria/Requirements**	
	Measuring /Reading /Recording frequency	Emission reductions achieved due to implementation of the solar power plant is monitored once during each monitoring period.
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	The monitoring of parameter has been implemented in accordance with the registered monitoring plan.
	How were the values in the monitoring report verified?	The value is calculated in line with the procedure as described under the transition annex and registered PDD/01/. Value of this parameter for the current monitoring period is 43,046 tCO_2e/06/.
	If applicable, has the reported data been cross-checked with other available data?	Not applicable
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	No separate QA/QC procedures is required.
Findings	No finding was raised	
Conclusion	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan.	

Parameter 3:

Number of employment generation

Relevant SDG Indicator 8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities

Means of verification	**Criteria/Requirements**	
	Measuring /Reading /Recording frequency	This is a sustainable development parameter to monitor the total number of employment opportunities created. Total number of jobs created for the local population is monitored on annual basis.

	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	The measuring and recording frequency are in line with the monitoring plan of registered PDD/01/.
	How were the values in the monitoring report verified?	Total number of jobs created by the project is 16 which include 04 skilled employees and 12 unskilled employees/08/. The salaries provided to the employees are in line with the local regulations as verified through the https://www.simpliance.in/minimum-wages/gujarat/ 10/. Hence PP has submitted the sample payslip for the employees and found satisfactory. There are no women was employed during the monitoring period as verified through employee records/10/. The assessment team has also verified the policy that mentioning a clear guideline on equal opportunity for all and no tolerance for discrimination based on gender, race or caste.
	If applicable, has the reported data been cross-checked with other available data?	The reported data has been cross checked with the O&M contract signed by the project developer with the technology supplier.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	The HR department monitors and maintains the up-to-date records of total number of jobs created and O&M expenses, necessary QA/QC processes in place.
Findings	CAR #2 was raised and resolved	
Conclusion	The parameter has been monitored appropriately, in accordance with the sustainability monitoring plan (as per measurement methods and procedures to be applied). The monitoring results were recorded consistently as per the approved frequency in the monitoring plan.	

Parameter 4: Quality of Employment

Relevant SDG Indicator 8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training

Means of verification	**Criteria/Requirements**	
	Measuring /Reading /Recording frequency	Quality of employment generated by the project activity is monitored. Project participant conducts various activities on regular basis for improving the skills and thereby quality of employment of its employees. Various indicators of quality of employment viz. quality job creation, working

		conditions, health care facilities, skill build-up through workshops and trainings, putting safeguard in place and living standard of the plant staff are monitored as and when such activities are organised/12/.
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	The measuring and recording frequency are in line with the monitoring plan of registered GS PDD/01/. The registered PDD requires the quality of employment to be monitored on annual basis. The assessment team confirms that the monitoring of quality of employment with reference to various parameters viz. training, occupational health, safety of employees and working environment is being done on annual basis /12/.
	How were the values in the monitoring report verified?	The following training programs/12/ to enhance the safety awareness, operational skills and occupational health management have been organized during the current monitoring period.

Sr.No	Training Objective	Date
1	Firefighting, emergency response, drop object	20/04/2020
2	Training conducted on incident and accident reporting	25/05/2020
3	Training provided on safe handling of machinery and power tools	22/08/2020
4	Electrical safety training & LOTO Demo via Zoom call	24/05/2021
5	PPE Usage & Maintenance	11/08/2021
6	Basic Safety while work on 33 KV & 66 KV line	19/09/2021
7	Safe usage of power tools	21/09/2021
8	Disaster management/Emergency Preparedness	24/02/2022
9	Fire & Safety Awareness Training	09/04/2022
10	Drop Object Prevention & handling of hand tools	16/08/2022
11	Basic Safety while work in PSS, USS, 33KV & 220 KV EHV line & feeder	10/12/2022

Yes, the reported data has been cross checked with the quantitative information about the quality of employment which includes the records of HR, training, health care facilities etc. are maintained /10,12/.

Counting of the number of trainings and respective attendees is done by a training attendance sheet which states the programme name, venue, faculty, date and timing, attendee details (employee code, name, designation, and department). Each training attendance sheet has a unique form number.

	If applicable, has the reported data been cross-checked with other available data?	Yes, the reported data has been cross checked with the quantitative information about the quality of employment which includes the records of HR, training, health care facilities etc. are maintained /10,12/.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Counting of the number of trainings and respective attendees is done by a training attendance sheet which states the programme name, venue, faculty, date and timing, attendee details (employee code, name, designation, and department). Each training attendance sheet has a unique form number.
Findings	CAR #2 was raised and resolved	
Conclusion	The parameter has been monitored appropriately, in accordance with the sustainability monitoring plan (as per measurement methods and procedures to be applied). The monitoring results were recorded consistently as per the approved frequency in the monitoring plan.	

3.6 Compliance with the calibration frequency requirements for measuring instruments:

Means of verification

As per the monitoring plan in the registered PDD/01/ the meters are to be tested and calibrated once in a year. The calibration certificates/13/ of meters have been checked to confirm the same. The details of monitoring equipment involved in the project activity and their calibration dates are mentioned in Section D.2 of the MR/04/ and are summarised in the tables below. All the meters are of accuracy class of 0.2s.

Table-1:

Meter location	Meter type & Sr.No	Calibration date	Calibration due date	Calibration delayed period.
Line-1	Main Meter (old): GJ-0952-A	07/03/2019	06/03/2020	07/03/2020 to 06/09/2021
	Main Meter (new): GJ-5699-A	07/09/2021 and 22/02/2023	06/09/2022 and 21/02/2023	07/09/2022 to 30/12/2022
	Check Meter(old): GJU62650	10/03/2018	09/03/2019	01/01/2020 to 06/09/2021 and
	Check meter (new): GET11849	07/09/2021 and 22/02/2023	06/09/2022 and 21/02/2023	07/09/2022 to 30/12/2022
Line-2	Main Meter (old): GJ-0953-A	08/09/2021	07/09/2022	01/01/2020 to 07/09/2021 And

				08/09/2022 to 30/12/2022
	Main Meter (new): GJ5700A	18/03/2023	17/03/2024	-
	Check Meter (old): GJU62651	10/03/2018	09/03/2019	01/01/2020 to 07/09/2021
	Check Meter (new): GET11850	08/09/2021 and 18/03/2023	07/09/2022 and 17/03/2024	08/09/2022 to 30/12/2022

Replacement of meters:

Meter location	Meter type and Sr. No (old)	Meter type and Sr. No (new)	VVB assessment
Line -1	Main meter: GJU62650	Main meter: GET1189	Existing meter got faulty, hence replaced with new meter on 07/09/2021
	Check meter: GJU62650	Check meter: GET11849	Existing meter got faulty, hence replaced with new meter on 07/09/2021
Line -2	Main meter: GJU62651	Main meter: GET11850	Existing meter got faulty, hence replaced with new meter on 08/09/2021
	Check meter: GJU62651	Check meter: GET11850	Existing meter got faulty, hence replaced with new meter on 08/09/2021

The assessment team has checked the meter replacement certificates/33/ and confirmed that the new meters were dully tested as per the metering code and found to be working under permissible limits of error. It is noted that both the new and old meter was of same accuracy class.

Assessment of calibration delay:

It is evident from the above table that calibration for all the meters has not been conducted as per the calibration frequency mentioned in the registered PDD/01/ and delay in calibration of energy meters is identified during the current monitoring period. The PD has conservatively considered the entire monitoring period as delayed period.

Accordance with the guidelines outlined under paragraph 366(a) of CDM VVS for PAs version 03.0, an error factor had to be applied for both export & import i.e. the measured values in the delayed calibration period. Hence the error factor – 0.2% is applied for export values and +0.2% for import values for the entire monitoring period. The approach followed by the PP was found to be conservative and appropriate, hence accepted.

The meters are duly approved, installed, tested, sealed and in the custody of the state utility. The PP has no control over the same.

	CEA Notification No. 502/70/CEA/DP&D dated 17/03/2006/24/ which is considered as national standard mentions that "All interface meters shall be tested at least once in five years." Hence, the calibration frequency of once in a year, mentioned in the registered PDD for the meters is appropriate. It is verified through the registered PDD and PPA signed by the PP with state utility that the state utility is the buyer of generated electricity and sole entity responsible for calibration of meters. This electricity supplied to the grid is obtained using directly measured values at the energy meters. Hence, the state utility (GETCO) ensures that the energy meters are in proper working condition.
Findings	CAR #1 was raised and resolved.
Conclusion	The assessment team confirms that the calibration is conducted at the frequency following the relevant national standards as specified by the methodology and the monitoring plan contained in the registered PDD/01/. Therefore, the requirement of CDM-VVS for PA v03.0 §§ 370 have been met.

3.7 Implementation of grievance mechanism:

During the site visit, the verification team confirmed that there is a grievance register with GS contact information in the lobby of the site office. The assessment team has verified the grievance register and confirmed that there is no formal complaint received.

Stakeholders Comments assessment

Questions asked?	Stakeholder comment/response	Name of stakeholder
Do you have any problem due to installation of project?	We are happy with the project and don't have any problem.	Aswin Solanki
Are you aware of the grievance mechanism and complaint procedure?	Yes, we are aware of the same. We register our suggestions/complaints in the register maintained at site office.	Raj Sumra
Does the noise generate by turbines disturbs any of their activity or comfort?	There are no such issues as the village is located far away from the WTGs.	Abdul Kadar Pooja Rathod
Employment's opportunities created due implementation of project activity?	Yes, many job opportunities are created for local villagers. All the security guard's, contractors and drivers are from local area only.	Satyam Patel
Are you happy with the benefits and development as CSR activity of the PP?	Yes, we are happy with the CSR Programmes initiated by the project developer.	Aswin Solanki

Based on the complaint register verified and interviews of local villagers during the site visit, the verification team able to conclude that:

- The grievance mechanism implemented is in place
- Complaints received from local villagers are consistently recorded, however no formal complaints were received during the current monitoring period.

During site visit VVB has interviewed with plant staff discussion about employment and if there any issues with plant management or employer, there is no comment or complain received from any of the staff against employer and plant management. They are all happy with their work and no issue with employment.

The assessment team has interviewed the PD representative during the on-site visit and confirmed that no legal dispute has arisen with project developer during the current monitoring period. The assessment team has also checked the annual report /31.1/ and the declaration submitted by the PD/31/, found to be appropriate.

3.8 Assessment of Data and Calculation of Greenhouse Gas Emission Reductions:

Means of verification	**SDG 7 Baseline Impact**: The assessment team has reviewed the registered PDD, TRF, MR and interviewed the local stakeholders during the site visit, it is confirmed that the project promotes access to affordable and clean energy services. The monitoring parameter of SDG7 is defined as amount of Renewable Electricity supplied to grid. In the baseline situation, as per the registered PDD, also verified during the site visit that no power generation unit at project site and no clean energy is available in the baseline. Therefore, baseline impact benefit is zero. **SDG 8 Baseline Impact**: The assessment team has reviewed the registered PDD, TRF, MR and interviewed the site personnel during the site visit, it is confirmed that the project created jobs and provided trainings to the employees on regular basis, the parameter of SDG8 is defined as total number of jobs and number of trainings provided. In the baseline situation, as per interview with site personnel and registered PDD, it is verified that no new jobs were created, and no trainings provided. Therefore, baseline impact benefit is zero. **SDG 13 Baseline Impact**: The assessment team has reviewed the registered PDD, TRF, MR and ER calculation sheet, it is confirmed that the project reduces emission reductions, the parameter of SDG13 is defined as reductions achieved in the current monitoring period. In the baseline situation, as per the registered PDD, it is verified that baseline scenario did not achieve the GHG emissions, hence baseline impact benefit is zero.
Findings	No issues identified and hence finding was not raised for this section
Conclusion	The verification team confirms that a) The complete data was available and is duly reported; b) Appropriate methods and formulae for calculating baseline GHG emissions or baseline net GHG removals were followed; c) Appropriate emission factors and other reference values were correctly applied.

3.8.1. Calculation of project value or estimation of project situation of each SDG Impact

Means of verification

SDG 7 Project Impact:
For SDG Indicator, as assessed in section 3.5, it is verified that the SDG 7 project impact in this monitoring period from 01/01/2020 to 30/12/2022 is: Quantity of net electricity generation supplied by the Project activity to the grid is 46,058 MWh.
Vintage wise SDG 7 impact:

Vintage year	Values (MWh)
01/01/2020 – 31/12/2020	15,743
01/01/2021- 31/12/2021	15,067
01/01/2022- 30/12/2022	15,248

SDG 8 Project Impact:
As verified in section 3.5, total 16 of jobs including 4 skilled & 12 unskilled and 11 trainings were provided.
Vintage wise value of the SDG 8 project impact in this monitoring period from 01/01/2020 to 30/12/2022.

Vintage year	No. of trainings	No. of jobs
01/01/2020 – 31/12/2020	3	16
01/01/2021- 31/12/2021	4	16
01/01/2022- 30/12/2022	4	16

SDG 13 Project Impact:
The assessment team has verified the MR/1/ and emission reduction calculation sheet/2/, it is confirmed that the project impacts to SDG 13 Amount of GHGs emission avoided or sequestered is equal to the Value of Emission Reduction and is calculated below:

Baseline Emissions BEy Calculation Assessment*:*

The formula used for the determination of baseline emissions which is consistent with the revised TRF:
$BEy = EG_{PJ,y} \times EF_{grid,y}$

Where:
BEy =Baseline emissions in year y (tCO2e)
$EG_{PJ,y}$ =Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project in year y (MWh)
$EF_{grid,y}$ = Combined margin CO2 emission factor for grid connected power generation in year y calculated using the "Tool to calculate the emission factor for an electricity system" (tCO2/MWh)

The quantity of net electricity generation supplied by the Project activity to the grid during the monitoring period is 46,058 MWh.

<table>
<tr><td></td><td>As per the registered PDD, combined margin emission factor is 0.9346 tCO2 /MWh. Hence the baseline emissions for the project activity for the current monitoring period are as follows.
BEy = 46,058 *0.9346 = 43,046 tCO2e

Vintage wise value of the SDG 13 project impact in this monitoring period from 01/01/2020 to 30/12/2022.

<table>
<tr><td>Vintage year</td><td>Values (tCO2e)</td></tr>
<tr><td>01/01/2020 – 31/12/2020</td><td>14,713</td></tr>
<tr><td>01/01/2021- 31/12/2021</td><td>14,082</td></tr>
<tr><td>01/01/2022- 30/12/2022</td><td>14,251</td></tr>
</table>
Project emission:
As the proposed project utilizes wind resources for electricity generation, there is no fossil fuel consumption in the operation. So, as per applied methodology the project emission of the solar power project is 0 tCO2e.

Leakage emission:
As per applied methodology, no leakage emissions are considered.

Emission reductions:
Emission reductions are calculated as follows:
ERy = BEy - PEy– LEy
Where:
ERy = Emission reductions in year y (tCO2e/yr)
BEy = Baseline emissions in year y (tCO2e/yr)
PEy = Project emissions in year y (tCO2e/yr)
LEy = Leakage emissions in year y (tCO2e/yr)

Since the project emissions and leakage emissions are zero, hence the emission reductions of the project are equal to the baseline emission, i.e.: ERy=BEy.</td></tr>
<tr><td>Findings</td><td>No finding was raised</td></tr>
<tr><td>Conclusion</td><td>No project emissions were required to be calculated.</td></tr>
</table>

3.8.2. Calculation of leakage GHG emissions

Means of verification	The registered PDD/01/ and applied monitoring methodology/28/ does not prescribe any leakage emissions to be considered.
Findings	No finding was raised
Conclusion	No project emissions were required to be calculated.

3.8.3. Summary of calculation of net benefits or direct calculation for each SDG Impact

Means of verification

Calculation of net benefits as difference of baseline and project values or direct calculation for each SDG Impact is as following,

SDG 7:

Vintage year	Baseline Impact	Project Impact	Net Benefit
01/01/2020 – 31/12/2020	0 MWh	15,743 MWh	15,743 MWh
01/01/2021-31/12/2021	0 MWh	15,067 MWh	15,067 MWh
01/01/2022-30/12/2022	0 MWh	15,248 MWh	15,248 MWh
Total (01/01/2020 to 30/12/2022)	0 MWh	46,058 MWh	46,058 MWh

SDG 8:

Vintage year	Baseline Impact	Project Impact	Net Benefit
01/01/2020 – 31/12/2020	0 Jobs ,0 trainings	16 jobs, 3 trainings	16 jobs, 3 trainings
01/01/2021-31/12/2021	0 Jobs ,0 trainings	16 jobs, 4 trainings	16 jobs, 4 trainings
01/01/2022-30/12/2022	0 Jobs ,0 trainings	16 jobs, 4 trainings	16 jobs, 4 trainings
Total (01/01/2020 to 30/12/2022)	0 Jobs ,0 trainings	16 Jobs, 11 trainings	16 Jobs, 11 trainings

SDG 13:

Vintage year	Baseline Impact	Project Impact	Net Benefit
01/01/2020 – 31/12/2020	0 emissions reduction	14,713 tCO2e	14,713 tCO2e emission reductions achieved
01/01/2021-31/12/2021	0 emissions reduction	14,082 tCO2e	14,082 tCO2e emission reductions achieved
01/01/2022-30/12/2022	0 emissions reduction	14,251 tCO2e	14,251 tCO2e emission reductions achieved
Total (01/01/2020 to 30/12/2022)	0 emissions reduction	43,046 tCO2e emission reductions achieved	43,046 tCO2e emission reductions achieved

The calculations presented in this regard in the final monitoring report and corresponding ER calculation sheet were found appropriate and complying with the provisions prescribed in the registered monitoring plan of registered PDD/01/ and applied methodology/28/.

	The verification team confirms that an audit trail that contains the evidence and records that validated the stated figures were checked and found acceptable.
Findings	No finding was raised
Conclusion	The verification team confirms that: a) The complete data was available and is duly reported; b) As indicated above, the description regarding cross-check of reported data is included under respective parameter (refer Section 3.5 of this report) c) Appropriate methods and formulae for calculating net benefits for each SDG Impact were followed. d) The calculation of net benefits for each SDG Impact is correct.

3.8.4. Comparison of actual SDG Impacts with estimates in the registered PDD

Means of verification	The assessment team has checked if the MR includes a comparison of actual values of the monitoring period with the estimations in the registered PDD for each SDG. Conclusion is as below table:

Item	Values estimated in ex ante calculation as per registered PDD	Actual values achieved during this monitoring period
SDG 7	52,578 MWh of renewable energy	46,058 MWh MWh of renewable energy
SDG 8	10 Jobs, 1 training per year	16 Jobs, 11 trainings
SDG 13	49,137 tCO2e emission reductions achieved	43,046 tCO2e emission reductions achieved

Findings	No finding was raised
Conclusion	The MR includes a summary table of comparison of actual values of the monitoring period with the estimations in the registered PDD for each SDG.

3.8.5. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

Means of verification	**For SDG 7**, the actual outcome during this monitoring period is lower than the estimated value due to the PLF fluctuation during the project operations comparing with the average estimated PLF value in the registered PDD which is confirmed by interview with project owner and operation staff, hence it is reasonable that the actual value is slightly lower than estimated in registered PDD. **For SDG 8**, the actual outcome during this monitoring period is higher than the estimated outcome. As per the registered PDD, 10 number of jobs per year were estimated, however 16 jobs are generated during the current monitoring period. It is noted that once the solar plant become operational, they require regular maintenance and monitoring. O&M technicians are employed to inspect, repair, and ensure the solar plant operate efficiently. Hence it is reasonable that the actual value is higher than estimated in registered PDD.

	As per the registered PDD ,1 training per year shall be provided to the site personnel. Hence during the current monitoring period (01/01/2020 to 30/12/2022), 3 trainings were estimated, however there are 11 trainings provided during the monitoring period. The additional training seasons are conducted because the staff members need to stay updated on the latest industry practices, safety protocols, and technological advancements. Regular training ensures that their skills remain relevant and effective. **For SDG 13**, It is confirmed that the actual value during this monitoring period was found to be 12.40% lower than the estimated value. This is due to PLF variation during the current monitoring period. It is to be noted that PLF is completely governed by the availability of wind, which is a natural phenomenon, and it is beyond the control of PP, hence, the assessment team has concluded the decrease in emission reduction of the project activity is justified and acceptable.
Findings	No finding was raised
Conclusion	The actual SDG Impacts for SDG 13 & SDG 7 are lower, and SDG Impacts for SDG 8 is higher than the estimated values given in the registered PDD, which is assessed as appropriate and accepted.

3.9 Management and Operational System

The responsibilities of data measurement, collection, verifying, archiving etc. have been clearly defined in the GS PDD. 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 registered PDD.

- Ms. Shivanjali Anubhuti Mishra is responsible for supervising the whole Gold Standard issues in the project activity;

- Mr. Hitesh is responsible for the Gold Standard group operation.

-Mr. Pawan Nayak is responsible for equipment maintenance data collection, verifying and archiving.

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

It's verified during the site verification, the monitoring procedure as well as the internal quality management and control procedures are stipulated in the PDD. The procedure is issued and approved by the top management. 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 and work certificate has been checked by the assessment team and it is confirmed that the monitoring personnel get sufficient training to perform the monitoring.

All the data and documents, either hard copies or electric copies, will be 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	GS Registered PDD	Version 2.1, dated 17/11/2022
1.1	Approved Transition annex (TRF)	-
2	GS Validation Report	Version 2.1, dated 17/11/2022
3	Monitoring Report	Version 01, dated 24/06/2023
4	Monitoring Report (final)	Version 05 dated 04/02/2025
5	ER spread sheet (initial)	Version 01, dated 24/06/2023
6	ER spread sheet (final)	Version 04 dated 04/02/2025
7	GOLD STANDARD FOR THE GLOBAL GOALS - Principles & Requirements,	Version 1.2, dated Oct 2019
8	Renewable Energy Activity Requirements	Version 1.4
9	GS4GG Validation and Verification Standard	Version 01, dated 06/03/2023
9.1	GHG Emissions Reduction & Sequestration Product Requirements	Version 2.2, dated 28/08/2023
10	HR records for various parameters viz. total number of employees, type of employment, quality of employment etc.	-
11	Commissioning certificate issued by GEDA	Date 09/12/2011
12	Training records (Attendance and photographs)	-
13	Calibration certificates of energy meters	-
14	GS project webpagehttps://registry.goldstandard.org/projects/details/2636	-
15	Policy, procedure, and records for occupational safety	-
16	Copy of grievance register	-
17	CDM verification report: For the period: 31/12/2012 to 31/12/2019	Version 02 Dated 01/04/2022
18	CEA CO_2 baseline database	Version 16
19	CEA Notification No. 502/70/CEA/DP&D	Dated 17/03/2006
20	Monthly share certificates issued by the state utility	For the period from 01/01/2020 to 30/12/2022
21	Monthly Invoices raised by the PP	For the period from 01/01/2020to 30/12/2022
22	O & M Contract signed between GISEL & Juwi	-

23	Power Purchase Agreement (PPA) signed with GUVNL	Dated 06/12/2010
24	Declaration for non-participation in other schemes/programmes.	-
25	Declaration for no legal disputes arise during monitoring period.	-
26	On-site visit observations	Dated 28/06/2023
27	HR declaration regarding the number of employments	Dated 24/07/2023
28	Methodology AMS I. D	Version 18.0
29	List of employees (O&M)	-
30	CDM: Project Activities (unfccc.int) Global Carbon Council: https://www.globalcarboncouncil.com/ VERRA: https://registry.verra.org/app/search/VCS UCR registry: https://www.ucarbonregistry.io/ ICR registry: https://www.carbonregistry.com/	-
31	Validation/Verification Body Requirements	V 02, dated 14/01/2021
32	Stakeholder Consultation and Engagement Requirements	V 2.1, dated 14/06/2022
33	Meters replacement certificates	Dated 22/02/2022 and 18/03/2023

5. FINAL VERIFICATION STATEMENT

Applus+ Certification verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Applus+ Certification planned and performed the verification by obtaining evidence and other information and explanations that Applus+ Certification considered necessary to give reasonable assurance that reported GHG emission reductions are stated.

In our opinion the GHG emissions reductions reported for the project activity are fairly stated in the Monitoring Report (final) Version 05 dated 04/02/2025. Applus+ Certification, based on outcome of verification activities, certifies in writing that, during the monitoring period 01/01/2020– 30/12/2022 (including both days), the registered GS PA "10 MW Solar Photovoltaic Power Plant in Rajkot, Gujarat (India)" in the registered GS PA achieved the verified amount of 43,046 tCO2e reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the PA.

The verified amount of emission reductions is stated below as per each vintage period falls under the current monitoring.

	Emission Reductions (Amount) in this monitoring period	
Year	**Duration**	**Emission reduction (GS-VERs)**
2020	01/01/2020 to 31/12/2020	14,713
2021	01/01/2021 to 31/12/2021	14,082

2022	01/01/2022 to 30/12/022	14,251
Total	**Nil**	43,046 tCO_2e

Date: 10/02/2025

Lead Auditor: Ravi Kant Soni
Verifier: Ravi Kant Soni
Tech. Expert and Country Expert: Ravi Kant Soni
Tech. Reviewer: Ms. Karen Vega

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

ASSESSMENT TEAM	
Lead auditor: Ravi Kant Soni	**Technical Reviewer:** Ms. Karen Vega
Signature: 	Signature: 
Approver: Mr. Agustín Calle de Miguel	
Signature: 	

LGAI Technological Center, S.A.
Campus UAB – Ronda de la Font del Carme, s/n
08193 Bellaterra – Barcelona
(Spain)
Tel.: +34 93 567 20 08
Fax.: +34 93 567 20 01
www.appluscertification.com

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

Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	01
Raised by:		Ref. to checklist in above tables:	2.2
Description of the audit finding		Date:	03/07/2023
Please submit the following documents: i. Commissioning certificate for the project ii. PPA signed with state utility. iii. Monthly share certificates and corresponding invoices. iv. Calibration certificates of all the meters valid for the current monitoring period.			
Project Participant's response		Date:	19/01/2024
1. The following documents have been submitted to the DOE for verification: 2. Commissioning certificate- Letter from Office of the Chief of Electrical Inspector dated 09/11/2011. 3. Signed PPA between Gujarat Urja Vikas Nigam Limited and Green Infra Solar Energy Limited has been dated 06/12/2010. 4. Share certificates and invoices from the month January 2020 to December 2022. Calibration certificates for the ABT meters and TV meters are submitted to the DOE for the review.			
Documentation provided as evidence by Project Participant			
1. Commissioning certificate 2. PPA 3. Monthly share certificates and corresponding invoices 4. Calibration certificates			
Auditor's assessment comment		Date:	29/02/2024
The PD has submitted the requested share certificates and corresponding invoices, monthly values of monitoring parameter are found to be consistent with the source documents. The PPA, commissioning certificates and calibration certificates are checked and found to be satisfactory. CL #1 is closed.			

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Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	02
Raised by:		Ref. to checklist in above tables:	2.2
Description of the audit finding		Date:	03/07/2023
i. Amount achieved for SDG 8 impact is not reported under table 1 of the MR. ii. The number of employments created due to project activity as reported in the MR is not consistent with the employment records as verified during the site visit. iii. Please submit the approved transition form (TRF) for GS CER to GS VER transition.			
Project Participant's response		Date:	19/01/2024
i. The amount achieved for SDG 8 impact is added in table 1 of the revised MR. ii. The number of employments created due to the project activity is 16 as reported in the Letter dated 09.08.2023 and the same has been incorporated in the MR. iii. Approved transition form for GS CER to GS VER is submitted to the DOE.			
Documentation provided as evidence by Project Participant			
1. Revised Monitoring report 2. Approved Transition form			
Auditor's assessment comment		Date:	10/04/2024
i. The PD has reported SDG 8 impact under table 1 of the MR but not consistent within the MR. Open ii. The number of employments created due to project activity is corrected in the MR and found consistent with the employment records as verified during the site visit. Closed iii. The PD has submitted the approved transition form (TRF) for GS CER to GS VER transition, found to be satisfactory. Closed. CL #2 is open			
Project Participant's response		Date:	08/03/2024
The values of SDG 8 impact have been corrected and is now consistent within the MR.			
Documentation provided as evidence by Project Participant			
Revised Monitoring report.			
Auditor's assessment comment		Date:	30/04/2024

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The PP has corrected SDG 8 impact value under table-1 and found consistent within the MR. CL #2 is closed.

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	01
Raised by:		Ref. to checklist in above tables:	3.2
Description of the audit finding		Date:	03/07/2023
A single line diagram showing the metering point is not provided in section C of the MR. During the site visit it was observed that reported meters in the MR were replaced with new meters. Kindly clarify why the details of new meters (including calibration dates) and reason for replacement is not described in the MR. The value of the parameter EG PJ, y as mentioned in the MR is not consistent with the ER sheet. SDG parameters are not reported in the ER calculation sheet.			
Project Participant's response		Date:	19/01/2024
• Single line diagram showing the metering point has been shown in Section C of the MR. • During the meter testing work it was found that two ABT meters i.e., Serial no. GJ 0953 A and Serial no. GJ 0952A were faulty. Therefore, those two ABT meters were replaced by new ABT meters with Serial no. GJ 5699 A and GJ 5700 A. Minutes of Meeting (dated 18.03.2023 and 22.02.2023) mentioning the details of the old ABT meters and new ABT meters and the reason for replacement. The details of both the newly replaced meters have been incorporated in Section C of the MR. • The value of the parameter $EG_{PJ,y}$ is now consistent in MR and ER sheet. • SDG parameters are now shown in the ER calculation sheet.			
Documentation provided as evidence by Project Participant			
1. Calibration certificates of old and new ABT meters, minutes of meeting 2. Revised ER sheet			
Auditor's assessment comment		Date:	29/02/2024

A single line diagram showing the metering point is provided in section C of the MR, found to be appropriate. Closed Kindly clarify why the calibration dates of new meters is not provided in the MR. Open The value of the parameter $EG_{PJ,y}$ is corrected in the MR and found consistent with the ER sheet. SDG parameters are reported in the ER calculation sheet, but values are inconsistent with MR. Open CAR #1 is open		
Project Participant's response	Date:	08/03/2024
• Calibration details about the old ABT meters and new ABT meters are now added in Section C of the MR. The calibration and replacement dates of new meters are also now provided in the revised MR. • SDG parameters are now consistent in the ER sheet and the MR.		
Documentation provided as evidence by Project Participant		
Revised Monitoring report.		
Auditor's assessment comment	Date:	12/03/2024
The PP has mentioned the calibration details of old ABT meters and new ABT meters in Section C of the MR, found consistent with the calibration certificates Values of the SDG parameters are corrected in the ER calculation sheet and found consistent with the MR. CAR #1 is closed.		

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	02
Raised by:		Ref. to checklist in above tables:	3.3
Description of the audit finding		Date:	03/07/2023
Please submit the following evidence with reference to the monitoring parameters (SDG 8): • Employment records, • Training records			
Project Participant's response		Date:	19/01/2024

The employment records and training records is submitted to the DOE. Details have been added in the revised MR.		
Documentation provided as evidence by Project Participant		
1. Employment records 2. Training records 3. Revised MR.		
Auditor's assessment comment	Date:	29/02/2024
The PD has submitted the HR declaration for the number of jobs created and O&M expenses incurred. However, training records are not submitted, also the details of training (objective, location, dates ect) are not provided in the MR. Open As per the registered PDD, O&M expenses is not considered as impact under SDG8, please clarify why the same is reported in the MR. CAR #2 is open		
Project Participant's response	Date:	08/03/2024
• The details of the training are provided in Section D.2 of the MR. • As per the registered PDD, reporting of O& M expenses under SDG 8 is not required. Therefore, the same has been corrected in the MR.		
Documentation provided as evidence by Project Participant		
Training records. Revised MR.		
Auditor's assessment comment	Date:	30/04/2024
The PP has submitted the training records and details provided in the MR, found to be satisfactory. As per the registered PDD, O&M expenses are not required to be monitored, hence removed. CAR #2 is closed.		

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Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	03
Raised by:		Ref. to checklist in above tables:	3.5
Description of the audit finding		Date:	03/07/2023
Section E.1 MR: Calculation of baseline value of baseline situation of SDGs is not in line with the MR filling guidelines. Also, the monitoring period dates mentioned in this section are not consistent with the ER sheet. Section E.2 MR: Please clarify why the project situation for SDG 8 is reported as zero. Section E.5 of the MR is incomplete and not filled in line with the MR template guidelines.			
Project Participant's response		Date:	19/01/2024
• Baseline value of baseline situation is now corrected and filled as per the MR guidelines. • The monitoring period date is 01/01/2020 to 30/12/2022, same is now corrected in the MR and is consistent with ER sheet. • Section E.5 of the MR is now filled as per the MR guidelines. • Section E.2 in the MR- The project situation for SDG 8 impact is corrected to 16.			
Documentation provided as evidence by Project Participant			
Revised MR and ER sheet.			
Auditor's assessment comment		Date:	29/02/2024
Section E.1 MR: Baseline and project situation impact for SDG 7 and 8 are the same. clarify why the project situation for SDG 8 impact (trainings) is not reported. Section E.5 of the MR: under SDG 8 the number of training courses is not reported. CAR #3 is open			
Project Participant's response		Date:	08/03/2024

• Section E.1 MR: The values for Baseline and Project situation impact for SDG 7 and 8 have been corrected and the project situation for SDG 8 (training details) have been added in the revised MR. • Section E.5: The number of training course are now added under SDG 8 impact.
Documentation provided as evidence by Project Participant
Revised Monitoring report.

Auditor's assessment comment	Date:	30/04/2024
Section E.1 MR: Baseline and project situation impact for SDG 7 is updated and project situation for SDG 8 impact (trainings) is reported. Section E.5 of the MR: under SDG 8 the number of training courses is reported. CAR #3 is closed.		

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	04
Raised by:		Ref. to checklist in above tables:	3.6
Description of the audit finding		Date:	03/07/2023
Please clarify why the information about implementation of Grievance Mechanism is not provided in the MR. Also submit the relevant evidence with reference to Grievance Mechanism.			
Project Participant's response		Date:	19/01/2024
The information about implementation of grievance mechanism is provided in the MR. No grievances were received from any stakeholder for the current monitoring period.			
Documentation provided as evidence by Project Participant			
Revised MR			
Auditor's assessment comment		Date:	29/02/2024
The PD has provided information about implementation of Grievance Mechanism in the MR. Also submitted the relevant evidence with reference to Grievance Mechanism, found to be satisfactory. CAR #4 is closed.			

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Type:	☐ CAR ☐ CL/CR ☒ FAR	Number:	01
Raised by:		Ref. to checklist in above tables:	Transition annex
Description of the audit finding		Date:	25/01/2025
Verifying VVB shall comply with section 3 of "SITE VISIT AND REMOTE AUDIT REQUIREMENTS AND PROCEDURES" V2.0.			
Project Participant's response		Date:	04/02/2025
We would like to clarify that after the remote site visit (Validation) conducted on 01/07/2021, A physical verification site was conducted on 20/11/2021. Kindly refer to the link- https://cdm.unfccc.int/UserManagement/FileStorage/J7HG9YMSWI6C4PZ52TVLNRQBK0EFUD The project owner then started the GS CER to GS VER transition and the validation site visit was again conducted on 19/07/2023 which is within the two-year timeline. Moreover, the VVB for both recent visits have been the same. All three consequent site visits are within the two-year timeline.			
Documentation provided as evidence by Project Participant			
N/A			
Auditor's assessment comment		Date:	05/02/2025

The assessment team has verified the following information regarding the site visits conducted since registration of project:

Milestone	Date	Source/evidence	Remark
Submission of documents for preliminary review	22/01/2020	Registered GS PDD, section A.1.1	-
Listening to the project on SustainCert	07/06/2021	Registered GS PDD, section B.5.1	-
Remote site visit (GS validation)	06/07/2021	GS Validation report, section 2.3	VVB: Applus+Certification Assessment team: Mr. Atul Takarkhede (LA/TE expert)
Physical sites visit First verification (CDM)	16/12/2021	CDM verification report, section D.2	VVB: Applus+Certification Assessment team: Mr. Atul Takarkhede (LA/TE expert)
GS CER to GS VER transition	June 2023- Jan 2024	Approved TRF	The PD contracted VVB for verification under GS VER stream on 12/06/2023 and started the process of transition.

Physical site visit (GS VER verification)	28/06/2023		VVB: Applus+Certification Assessment team: Mr. Ravi Kant Soni (LA/TE expert)	

It is evident from the above table that the physical site visit was conducted by the auditor on 20/11/2021, hence it can be confirmed that site visit frequency complies with section 3 of "SITE VISIT AND REMOTE AUDIT REQUIREMENTS AND PROCEDURES" V2.0.

FAR #1 is closed.

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Appendix 2: Calibration details of monitoring meters

Meter location	Meter type & Sr. No	Make	Accuracy Class	Calibration date	Calibration due date	Calibration Compliance
Line-1	Main Meter (old): GJ-0952-A	Elster	0.2s	07/03/2019	06/03/2020	N
	Main Meter (new): GJ-5699-A	Elster	0.2s	07/09/2021 and 22/02/2023	06/09/2022 and 21/02/2023	N
	Check Meter(old): GJU62650	Elster	0.2s	10/03/2018	09/03/2019	N
	Check meter (new): GET11849	Elster	0.2s	07/09/2021 and 22/02/2023	06/09/2022 and 21/02/2023	
Line-2	Main Meter (old): GJ-0953-A	Elster	0.2s	08/09/2021	07/09/2022	N
	Main Meter (new): GJ5700A	Elster	0.2s	18/03/2023	17/03/2024	-
	Check Meter (old): GJU62651	Elster	0.2s	10/03/2018	09/03/2019	N
	Check Meter (new): GET11850	Elster	0.2s	08/09/2021 and 18/03/2023	07/09/2022 and 17/03/2024	N

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Appendix 3: Audit Team CVs

Name	SHORT CV. BACKGROUND INFORMATION
Ravi Kant Soni	Mr. Ravi Kant Soni is a certified for Lead Auditor ISO 17029:2019, ISO 14065:2020 & Lead Auditor ISO 14064:2019 GHG Inventory and verification. He has more than 10 years of work experience across Climate Change, Environmental Management & Monitoring, Health & Safety Management, and Statutory Compliance. He was involved in more than 150 CDM validation and verifications activities and Gold Standard, VER projects as a team leader/technical reviewer / validator / verifier covering the sectoral scope 1 (technical area 1.1 & 1.2), scope 3 (technical area 3.1). He has done Mater in Technology (Energy Management) from a premier institute, School of Energy & Environmental Studies, DAVV, Indore (M.P.), India and Bachelor of Engineering (Mechanical Engineering) from M.I.T.S Gwalior Jiwaji University Gwalior, India. Mr. Ravi Kant Soni is based in Indore, India.
Karen Vega	Ms. Karen Vega has a Bachelor's Degree in Environmental Sciences from the University of Barcelona, she has postgraduate studies in renewable energies, and a master's degree in finances. Karen has more than 7 years of professional experience in the sector of quality, environment, and climate change. Her professional career has been mainly focused, but not limited to, on the sector of validation and verification of GHG emission compensation and mitigation projects, in different countries and under universally recognized standards (CDM-UNFCCC, VS, GS4GG, GCC). She has also worked as Sustainability and Environment consultant mainly for the metal coating sector, conducting transversal roles and opening successfully the sustainability department in the company. Currently, she works in Applus + Certification Project Manager, being especially involved in technical and management tasks in the DOE/VVB to ensure the quality of the performance of different assessments, coordinate the global team, and maintenance of the Accreditations. Karen has attended different CDM, VCS, GS4GG, GCC, ISO 9001, and ISO 14001 training processes. She has conducted consultancy services for ISO 9001 and ISO 14001 implantation in various companies, being in charge from its beginnings until final certification and certificate obtain; in the same way she has conducted Carbon Footprint Analysis and Reports. Holds experience as Verifier for GHG mitigation projects and programmes of activities in Sectoral Scope 1.1 (Thermal energy generation) and 1.2 (Renewables), qualified as per Applus+' procedures. She is already qualified as an auditor for ISO 9001, ISO 14001, GHG audits, Carbon footprint Audits and CDM renewable projects audits (Sectoral Scopes 1.1 and 1.2). Ms. Karen Vega is based in Barcelona, Spain. Ms. Karen Vega participated as the Technical Expert and Technical Reviewer.