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

Project Title:	400 MW Solar Power Project at Bhadla, Rajasthan
Monitoring Period:	01/10/2021 to 30/09/2022 (Both days included)
GS project ID:	GS7071
Internal ID:	48222
Customer:	Adani Renewable Energy DEVCO Private Limited (Earlier known as SB Energy Pvt Ltd)
Date:	30/01/2023
Revision:	02

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SUMMARY			
Reference No.	**Date** *(first version)*	**Version No.**	**Date** *(last version)*
A+SH_SYST_TQC_GS_VER_48222	29/12/2022	02	30/01/2023

GS4GG Verification	
GS4GG Certified Product *(sought)*:	GS VER
GS4GG SDG Impact Statement *(sought)*:	Impact Certification

General Information	
Client	Adani Renewable Energy DEVCO Private Limited
Project Title	400 MW Solar Power Project at Bhadla, Rajasthan
Project Participants	Adani Renewable Energy DEVCO Private Limited (Earlier known as SB Energy Pvt Ltd)
Project Location	Village Bhadla, District Jodhpur, Rajasthan state of India.
Contact Person	Mr. Rajkumar jain
Monitoring Period:	01/10/2021 to 30/09/2022 (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	GS4GG Sectoral Scope: 2 UNFCCC CDM Sectoral Scope: 1 Technical Area: 1.2
Monitoring Report Version: 01 Date: 27/10/2022	Final Monitoring Report Version: 03 Date: 28/12/2022

Certified Project Design Document Version: Assessment team checked the registered GS PDD version 07
Date: 27/03/2020

Estimated values for all SDG:

SDG	SDG	Values
7	Renewable Electricity Generated	832,550 MWh electricity generation (annual)
8	Trainings provided to O&M staff	01 Trainings provided to O&M Staff (annual)
8	Number of Jobs generated	10 employments (annual)
13	Emission Reduction	779,933 tCO_2e (annual)

Actual values for the Monitoring period for all SDG:

SDG	SDG	Actual values for this monitoring period
7	Renewable Electricity Generated	971,188 MWh electricity generation
8	Trainings provided to O&M staff	40 Trainings provided to O&M Staff
8	Number of Jobs generated	10 employments created
13	Emission Reduction	909,798 tCO_2e emission reduction

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 Adani Renewable Energy DEVCO Private Limited (Earlier known as SB Energy Pvt Ltd) to perform the 4th verification of "400 MW Solar Power Project at Bhadla, Rajasthan" (Ref. No. GS7071) applying the methodology ACM0002 Version 20.0[/4/].

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SUMMARY

The management of Adani Renewable Energy DEVCO Private Limited (Earlier Known as SB Energy Pvt Ltd) is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

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

a. The registered PDD including the monitoring plan;

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 guideline and related Annex.

f. All information and references relevant to the project activity's resulting in emission reductions.

Adani Renewable Energy DEVCO Private Limited (Earlier Known as SB Energy Pvt Ltd) is the promoter of the project activity and involves installation of 400 MW gird connected solar photovoltaic power plant in Jodhpur district of Rajasthan, state of India. Electricity generated from the project activity is sent to Indian grid. As per GS4GG PDD[3], the project replaces anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 779,933 tco_2e per annum, thereon displacing 832,550 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 was commissioned in two phases, Detail are as follows: -

Project Investor	Project Type	Project Capacity	Date of Commissioning	State	Usage
Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited)	Solar PV	100 MW	21-09-2018	Rajasthan	Sale to State Discom
		100 MW	24-09-2018		
		100 MW	24-09-2018		
Adani Solar Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited)		20 MW	04-10-2018		
		20 MW	04-10-2018		
		30 MW	18-09-2018		
		30 MW	18-09-2018		

The monitoring of emission reduction and sustainable development indicators has been carried out in accordance to respective registered PDD[3].

Applus+ Certification confirms that the project is implemented in accordance with the validated and registered PDD[3]. The monitoring plan complies with the applied methodology ACM0002 Version 20.0[4] and the GS4GG guideline 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 909,798 tCO_2e emission reductions during period 01/10/2021 to 30/09/2022(Both days included)
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: 04, CLs: 02, FARs: 03 (Raised by Sustain Cert during Performance Review).

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ASSESSMENT TEAM		
Team Members	**Type of Resource**[1]	**Organization** *(for OEs)*
Lead Auditor: Dr. Atul Takarkhede	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Technical Expert: Dr. Atul Takarkhede	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Auditor in Trainee: Mr. Ishan Shrivastava	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Technical Reviewer: Mr. Denny Xue	☐ IR ☒ EI ☐ OE	Applus+ Certification

Note: *In line with the GS Rule Update RU 2020 PR – PR V2 dated on 27/03/2020, the VVB hereby discloses that the VVB has performed Validation of this project with different team members (Lead Auditor: Mr. Pankaj Kumar, Auditor: Mr. Sukanta Das) than in this verification.*

[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
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
RRVPN	Rajasthan Rajya Vidyut Prasaran Nigam Limited
SECIL	Solar Energy Corporation of India Limited
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 Adani Renewable Energy DEVCO Private Limited (Earlier known as SB Energy Pvt Ltd) to perform the 4th verification of "400 MW Solar Power Project at Bhadla, Rajasthan" applying the methodology ACM0002 Version 20.0/4/ and GS4GG guideline. 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 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 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 03.0/5/ for the project activities and Gold Standard (i.e., applicable GS4GG requirements);
- Ensure that the actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology;
- Evaluate the data recorded and stored as per the ACM0002 Version 20.0/4/.

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 as well as its validation report, the applied monitoring methodology, relevant decisions, clarifications and guidance from the CMP and the EB, GS4GG guideline and any other information and references relevant to the project activity's resulting emission reductions. These documents are reviewed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures, GS4GG guideline 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 guideline.

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

1.3 Description of the project activity

Adani Renewable Energy DEVCO Private Limited (Earlier Known as SB Energy One Private Limited & SB Energy Three Private Limited) is the promoter of the project activity and involves installation of installation of 400 MW solar power project in village: Bhadla in Jodhpur district of Rajasthan State of India. The total capacity of the project activity is 400 MW, which consist 3*100 MW unit by SB Energy One Private Limited & 2*20 MW, 2*30 MW by SB Energy Three Private Limited. Electricity generated from the project activity is sent to Indian grid of India. Same was verified during the site visit. As per GS4GG PDD[3], the project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 779,933 tCO_{2e} per annum, thereon displacing 832,550 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 in the year 01/01/2019.

The details of the project are mentioned in the table:

Project Investor	Project Capacity	Latitude	Longitude
Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited)	300	27°29'04.49" N	71°58'54.09" E
		27°29'29.04" N	71°59'15.89" E
		27°28'10.08" N	72°00'02.97" E
Adani Solar Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited)	100	27°32'08.45" N	71°57'19.10" E
		27°32'25.47" N	71°57'24.23" E
		27°31'55.48" N	71°57'58.23" E
		27°32'21.8" N	71°57'47.54" E

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

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 of this assessment.

2.1 Appointment of the assessment team

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

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

The 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
Dr. Atul Takarkhede	LA/TE	YES	YES	NA	YES
Mr. Ishan Shrivastava	AiT	NA	NA	NA	YES
Mr. Denny Xue	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 01/1/ 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, 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

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1	Jain	Mr. Rajkimar	PP representative	06/12/2022	Project implementation,	Dr. Atul Takarkhede & Mr. Ishan Shrivastava
2	R.	Mr. Aravamudhan	Manager (O&M)		Project implementation, Grievance mechanism etc.	
3	Saha	Mr. Sandip	Project Coordinator		Baseline emissions, ER calculations, Sustainable monitoring,	
4	Nimolkar	Mr. Rutuparn	EKI Consultant		Stakeholder meeting- Employment opportunities, Standard of Livings etc.	
5	Vyas	Mr. Kapil	Local stakeholder (RJ)			
6	Meena	Mr. Santosh	Local stakeholder (RJ)			

The objective of the on-site assessment is to:

- Confirm the implementation and operation of the project;
- Review the data flow for generating, aggregating and reporting the monitoring parameters;
- Confirm the correct implementation of procedures for operations and data collection;
- Cross-check the information provided in the MR documentation with other sources;
- Check the monitoring equipment against the requirements of the PDD, PDD and the approved methodology, including calibrations, maintenance, etc.;

- Review the calculations and assumptions used to obtain the GHG data and ER;
- Identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters.
- Confirm the SDG goals/ Sustainable monitoring parameter as per the registered PDD
- To understand grievance (if any) from the villagers during the monitoring period.
- Local stakeholder meeting details:

Name of the stakeholder	Kapil Vyas
Occupation	Villager
VVB QUESTION: Did PP provided employment opportunity to locals? Answer: Yes, employment is generated and the locals are given priority. Assessment team noted that locals were employed for the project activity for the current monitoring period. VVB also like to conclude that during the site visit it was observed that local people were employed for security and operation related work like vegetation improvement and other unskilled work. VVB also found that skilled local persons were also employed by the organization for the operation and maintenance of the power plant.	

Name of the stakeholder	Santosh Meena
Occupation	Villager
VVB questions: Did the power plant have any harmful impact on farming or vegetations? Answer: NO. The plant is implemented in barren land and there were no any fertile land or crop which is damaged.	

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[1]. Specific cross-checks have been done in cases that further sources were available. The monitoring report's figures were checked by the assessment team against the raw data. The data collection system meets the requirements of the monitoring plan as per the methodology.

2.5 Reporting of findings

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

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

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

The assessment team shall raise a Clarification Request (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: 04, CLs: 02, FARs: 03 (Raised by Sustain Cert during previous performance review).

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 4th verification for the project activity and 03 FARs were raised by Sustain Cert during previous performance review report. No FAR pending form the validation and previous verification of the project activity. Refer Appendix 1 of this report for details of FARs raised performance review of previous verification/s.

3.2 Project Implementation in accordance with the registered Project Design Document

The project activity was fully implemented according to the description presented in the registered PDD. The assessment team confirms, through the Site Visit that all physical features of the proposed project activity including data collecting systems and storage have been implemented in accordance with the registered PDD for GS4GG and Passport.

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

- Interviews of onsite personnel during Site Visit
- Technical detail analysis of the power plant from the documents submitted by the manufacturer.
- Commissioning certificates of the plant
- PPA for the project activity
- Adani Renewable Energy DEVCO Private Limited (Earlier Known as SB Energy Pvt Ltd) has installed solar power project at Bhadla village, Jodhpur District, Rajasthan state of India with capacity of 400 MW.

Technical specifications of 300 MW Solar PV Project by SB Energy One Pvt. Ltd are as follows:

Sr. No.	Particulars	Details
1.	Capacity of the Project	100 * 3 MW
2.	Technology used	Polycrystalline
3.	Rating of Solar Modules	325 to 330 Wp
4.	Angle from horizontal at which the array is installed	20^0
5.	Number of modules of each type	325 Wp- 2,64,840 Nos 330 Wp- 1,78,650 Nos
6.	Source of modules installed of each type	Jinergy solar in
7.	Number of invertors installed	32 numbers
8.	Rating of invertors	3.125 MVA
9.	Date of installation of full capacity	19-09-2018
10.	PV Arrays	100 %
11.	Invertors	100 %

12.	Transformers	100%

Technical specifications of 100 MW Solar PV Project by SB Energy Three Pvt. Ltd are as follows:

Sr. No.	Particulars	Details
1.	Capacity of the Project	50 * 2 MW
2.	Technology used	Polycrystalline
3.	Rating of Solar Modules	325 to 330 Wp
4.	Angle from horizontal at which the array is installed	200
5.	Number of modules of each type	325 Wp- 34,920 Nos 330 Wp- 60,250 Nos
6.	Source of modules installed of each type	Jinergy solar in
7.	Number of invertors installed	16 numbers
8.	Rating of invertors	3.125 MVA
9.	Date of installation of full capacity	04/10/2018
10.	PV Arrays	100 %
11.	Invertors	100 %
12.	Transformers	100%

Technical specifications of the each SPV is provided in the section B.1 of the MR. Same are conformed during the onsite visit and commissioning certificates/11/, validation report & previous verification reports and found correct.

The project activity had 2 unit which contain 300MW & 100MW was commissioned phases wise i.e., The start date of the project activity is 18/09/2018. Which is verified with commissioning certificate issued by the government authority i.e., Rajasthan Renewable Energy Corporation Limited (RRECL) and found the same to be appropriate.

The project activity was in normal operational during the monitoring period and the same has been confirmed during site visit interviews with PP and crosschecked from review of Monthly Joint Meter Reading/9/ & breakdown/12/ records submitted by PP. Power plant was working throughout the monitoring period and same have been conformed from Monthly Joint Meter Reading/9/ values. No unusual activates observed during the monitoring period and plant was undergone scheduled as well as emergency maintenance as per the recommendation of the manufacturers. No forced breakdown/12/ observed and the same is confirmed by the assessment team with the plant log details and Monthly Joint Meter Readings/9/.
The verification team has reviewed the commissioning certificates & PPA to conclude that the capacity of the project is same as mentioned in the registered GS PDD and explained by PP during site visit interviews. The capacity of the project activity does not change after the registration of the project activity and same have been confirmed from the commissioning certificate, PPA/17/ and Monthly Joint Meter Readings issued by State Utility/9/ and Invoices raised by the PP towards state utility.

Also, from review of other documents such as Commissioning certificate/11/, PPA/17/ & Monthly Joint Meter Reading/9/, it was observed that the rated capacity of the project is 400 MW. The capacity of the project is more than 15 MW and thus the same qualifies as large-scale project activity.
Plant is located in village Bhadla, District Jodhpur, Rajasthan, states of India. Assessment team also checked the locations of the project activity in the registered PDD/3/, validation report/3/. Thus, location provided in MR are found in line with registered documents of the project activity and are as stated in table above.
The project is connected to National grid (as per the grid structure of India) and the same is found correct by the assessment team during the review of commissioning certificate, PPA and site visit interviews with PP. The grid structure as mentioned in the PDD is still applicable for the project and ex-ante emission factor as proposed in the PDD is used for emission reduction calculation. Assessment team noted that the project activity has entered a power purchase agreement with the RRVPNL/17/. The electricity is fed in the Integrated Indian grid.
Thus, assessment team confirms that the project is implemented as per the registered PDD/17/ 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 17% higher than the estimated value in the PDD. This is not in not in control of PP. due to the higher PLF months during the monitoring period. The PLF achieved during this monitoring period for 300 MW is 27.71% as compared to 24% (estimated).

PLF achieved during current monitoring period for 100MW is 27.73% as compared to 24% (estimated). There is no any adverse impact on additionality due to this higher PLF of project activity for current monitoring period as the achieved PLF is within the breaching value of 35.39%. Further no design change in the project activity has taken place and even with an increased PLF which is achieved during this monitoring period, the equity IRR of the project is well below the benchmark.

During the current monitoring period the project witnessed a PLF of 27.71% for 300 MW unit against the estimated PLF of 24% & 27.73% for 100 MW unit against the estimated PLF of 24%. which was considered at the validation of the project activity. However, it is to be noted here that even with actual PLF achieved during present verification the equity IRR of the project activity is 10.83% & 10.82% respectively against the benchmark value of 13.41%. Further it was being analysed by the VVB that even after increase of 10% values in PLF than compared to actual PLF value, the IRR of the project is 7.21% which is well below the benchmark value and thus the project activity still remains additional.
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 site visit interviews with PP, and commissioning certificate submitted by PP.

Assessment team also checked that the projects are 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 registered with VCS with Ref. no. 1805[2]. But Now project activity has been withdrawal from VCS mechanism, Confirmation letter/21/ dated 28/05/2020 from VERRA is submitted to assessment team by PP and found correct. Thus accepted

Grievance Mechanism:

During the Onsite visit, the verification team confirmed that there is a grievance book/form with GS contact information at the project site office and are accessible to local stakeholders. By checking grievance book submitted by PP, it was able to confirm there are no comments received from the local people for the present monitoring period towards project activity. However, some complaints raised by the on-roll & contract labours are recorded and resolved. 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., Monthly Joint Meter Reading sheets and the invoices for the complete monitoring period are checked and thus the assessment team confirms that the ER value is conservative and correct.

[2] https://registry.verra.org/app/projectDetail/VCS/1805

Consideration of materiality in conducting the verification

In line with Guidelines for Application of materiality in verifications Version 02, 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 invoices 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 can confirm that the monitoring plan is in accordance with the approved methodology ACM0002 Version 20.0[/4/], applied by the proposed 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 GS PDD[/3/]. All parameters were monitored and determined as per the monitoring plan of the GS PDD as follows:

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

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

The values considered ex-ante for this monitoring period were cross-checked with registered PDD[/3/], 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 **$EF_{grid,OM,y}$** Operating Margin CO_2 emission factor in year y	0.9610 tCO_2/MWh	The value of the parameter was checked from registered PDD[/3/]. The value of the parameter was sourced from CEA database version 14.
SDG 13: Climate Action **$EF_{grid,BM,y}$** Build Margin CO_2 emission factor in year y	0.8644 tCO_2/MWh	The value of the parameter was checked from registered PDD. The value of the parameter was sourced from CEA database version 14[/14/].
SDG 13: Climate Action **$EF_{grid,CM,y}$** Combined Margin CO_2 emission factor in year y	0.9368 tCO_2/MWh	The value of the parameter was checked from registered PDD. The value of the parameter was sourced from CEA database version 14.

The value mentioned in the Monitoring Report and Emission Reduction Spreadsheet are consistent with the registered 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:

Relevant SDG indicators = 7.2.1 Affordable and Clean Energy

1. **$EG_{PJ,y}$** = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh (MWh)
The parameter **$EG_{PJ,y}$** is calculated using the difference of export and import value measured from the electricity meter. Total 971,188 MWh amount of net electricity supplied by project activity. Net electricity supplied to the grid for individual project activity is then calculated as export-import. The Meter Reading Statement (i.e., JMR sheets) issued by State board which provide the values of export and import for the month. The same is thus used for emission reduction calculation. All the plants (including the project activity solar plant and other investors solar plant) are connected to a Pooling substation 132/220 KV GSS II and further electricity is transferred to 220/400 KV RRVPNL substation. The common metering point at RRVPNL substation consists of both main & check meters (ABT Meters) having accuracy class of 0.2s. The export/import losses between these two substations are apportioned based on pooling substation readings. Based on the statement the Invoice is raised by PP to State electricity board. The practice followed onsite is as per the registered PDD. The meter reading is taken during a fixed billing cycle of every month and representative of state electricity board and Operation and maintenance personal onsite present during the process. The export and import reading is continuous and recording frequency is monthly. The QA/QC procedure is as per the requirement of the registered PDD and onsite practice. Assessment team confirms the same during the onsite audit & interviews with site in charge. Assessment team checked all the values of calculated Net electricity supplied to the grid from the Meter reading statement (provides the value of export and import) issued by State electricity board. Moreover, as per the requirement of the approved methodology and registered PDD, assessment team cross checked the net electricity value as presented in the JMR with the invoice raised and found the values match with each other. The same is thus acceptable to the assessment team and thus emission reduction calculation is correct.

Relevant SDG indicators = 13 Climate Action

2. **ER_y:** Emission reductions achieved per year

The parameter is calculated using product of electrical energy baseline $EG_{PJ,y}$ expressed in MWh of electricity produced by the renewable generating unit multiplied by an emission factor. Same is demonstrated in Emission reduction sheet and achieved value of emission reduction for the current monitoring period is 909,798 tCO_2e. The same is thus acceptable to the assessment team and thus emission reduction calculation is correct.

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

3. **Number of employment generation and better salary:** Number of people employed directly due to the project activity and better salary given and salary from the o/m contract

   The parameter is taken as the total number of people employed directly due to the project activity and better salary given and salary from the o/m contract during current monitoring period. Same is found as 10 employees and no gender inequality in terms of salary has been observed, PP paying equal amount of money for equal work. The same is thus acceptable to the assessment team and verified using Salary slips submitted.

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

4. **Quality of Employment:** Training of Staff

   The parameter is taken as the total number of trainings conducted during the current monitoring period for the employees. Same is found as 40 Trainings - Personnel training on Stress management, confined space working and awareness training & O and M Training (Approx.). The same is thus acceptable to the assessment team and verified using training records submitted. Details related to trainings held at the project site is mentioned in Section D.2 of monitoring report, found inline with training records.

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 Monthly Joint Meter Reading/9/ issued by State electricity board /Invoices etc. and hence sampling plan was not required. The verification team hereby confirms that 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 are presented in Appendix 2 of this report. Calibration/10/ of meters carried out by a NABL accredited company 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 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 PDD/3/ indicators are chosen for the monitoring of sustainable monitoring:

Meth/tool	Relevant SDG indicator	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	Quantity of net electricity generation supplied by the project plant/unit to the	Yes

Meth/tool	Relevant SDG indicator	GS PDD	MR	Compliance
		to the grid in year y in MWh	grid in year y in MWh	
• Number of employment generation and Better Salary • Quality of Employment	SDG 8.5.1: Number of people employed directly due to the project activity Relevant SDG indicators = 8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training	Number of people employed directly due to the project activity Training of Staff	Number of people employed directly due to the project activity Training of Staff	Yes
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

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:	$EG_{PJ,y}$
Unit	MWh
Description	Quantity of net electricity supplied to the grid
Source of data checked by the assessment team	Monthly Joint Meter Reading by State Utility[9]
Value(s) of monitored parameter	971,188 Year | $EG_{PJ,y}$ 2021 | 228534.78 2022 | 742653.22
Means of verification:	The parameter $EG_{PJ,y}$ is calculated using the difference of export and import value measured from the electricity meter. Net electricity supplied to the grid for individual project activity is then calculated as export-import. The Meter Reading Statement (i.e. JMR sheets) issued by State board which provide the values of export and import for the month. The same is thus used for emission reduction calculation. All the plants (including the project activity solar plant and other investors solar plant) are connected to a Pooling substation 132/220 KV GSS II and further electricity is transferred to 220/400 KV RRVPNL substation. The common metering point at RRVPNL substation consists of both main & check meters (ABT Meters) having accuracy class of 0.2s. The export/import losses between these two substations are apportioned based on pooling substation readings. Based on the statement the Invoice is raised by PP to State electricity board. The practice followed onsite is as per the registered PDD. The meter reading is taken during a fixed billing cycle of every month and representative of state electricity board and Operation and maintenance personal onsite present during the process. The export and import reading is continuous and recording frequency is monthly. The QA/QC procedure is as per the requirement of the registered PDD and onsite practice. Assessment team confirms the same during the

	Onsite audit & interview with PP. Assessment team checked all the values of calculated Net electricity supplied to the grid from the Meter reading statement (provides the value of export and import) issued by State electricity board. Moreover, as per the requirement of the approved methodology and registered PDD, assessment team cross checked the net electricity value as presented in the JMR with the invoice raised and found the values match with each other. The same is thus acceptable to the assessment team and thus emission reduction calculation is correct. The details of the Meters are provided in appendix 2 of the report.
Cross check mechanism	The Monthly Joint Meter Reading is cross-checked with the invoice/9/ 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.

Relevant SDG Indicator	**SDG 13.2.1: Climate Action**
Data/parameter:	Air quality
Unit	tCO_2
Description	Reduction in CO_2 emission reduction due to implementation of project activity
Source of data checked by the assessment team	Calculated as per "Tool to calculate the emission factor for an electricity system,". The data are obtained from "CO2 Baseline Database for Indian Power Sector" version 14.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Value(s) of monitored parameter	909,798 Year | ER_y 2021 | 214,089 2022 | 695,709
Means of verification:	Assessment team checked that the parameter is calculated. The electricity exported & imported measured by Energy meter installed at substation. The Monthly Joint Meter Reading /9/ is cross-checked with the invoice/9/ copies. Emission reduction calculated in thus correct and accurate.
Cross check mechanism	All the formulas are applied in line with the registered GS4GG PDD

Relevant SDG Indicator	**SDG 8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training** **Quality of Employment**
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 40 training programmes/7/ to its employees and O&M staffs. The training records for the monitoring period is checked by the assessment team and found correct. Year | Number of Trainings 2021 | 0 2022 | 40

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

Relevant SDG Indicator	**SDG 8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities**
Data/parameter:	**Number of employment generation and better salary**
Unit	Number and Rupees
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. A total of 10 employment (10 Permanent and 0 temporary). The employment records for the monitoring period are checked by the assessment team and found correct. Year / Skilled / Unskilled / Total 2021 / 0 / 0 / 0[3] 2022 / 10 / 0 / 10 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.
Means of verification:	The value for number of employments created is taken from Plant employment records/13/, and PP declaration. Verification team interviewed some employees and Local stakeholders.
Cross check mechanism	Not applicable

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

During the site visit 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 polices. Local people are happy with the implementation of the project activity as it entrusts employment and improve living standard of local people and villagers.

[3] According to the project participant's representative, After COVID-19 outbreak, new appointment of employees during 2021 was reduced. However, PP insured that in year 2023, employments will be generated as per estimated under GS approved PDD. Assessment team observed reduction in employment generation doesn't affect the project additionality, scale and methodology. Thus accepted.

Assessment team also checked the Indian domestic REC web site (https://recregistryindia.nic.in/) & International REC device registry (https://evident.services/device-register) and confirms that the project is not undertaking any REC benefits at present nor intended to take it in near future.

Assessment team also checked the other registry like UNFCCC and VCS and found that project is not registered with UNFCCC mechanisms mechanism but is registered on VCS with reference no. 1805.

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. Rajkumar jain, 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	971,188 MWh	971,188 MWh
SDG 8: Decent Work and Economic Growth	0 Trainings 0 Employees	40 Trainings 10 Employees	40 Trainings 10 Employees
SDG 13: Climate Action	909,798 tCO_2e	0 tCO_2e	909,798 tCO_2e

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

Item	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
SDG 7: Affordable and Clean Energy	832,550 MWh	971,188 MWh
SDG 8: Decent Work and Economic Growth	01 Trainings provided to O&M Staff 10 employment generation	40 Trainings provided to O&M Staff 10 employments generation
SDG 13: Climate Action	779,933 tCO_2e	909,798 tCO_2e

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 01/1/ & Final Monitoring report Version 03/1/ and corresponding ER calculation spread-sheets/2/ and are consistent with the applied methodology ACM0002 Version 20.0/4/ and the monitoring plan contained in the registered PDD. The parameters are complete in this monitoring period.

After verifying the reported figures with the raw data sources, it's confirmed that the values of the parameters from the raw data sources are consistent with those quoted in the Monitoring Report Version 01 & Final Monitoring report Version 03/1/ and corresponding ER calculation spread-sheets/2/. 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:

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

BE_y = 971,188 x 0.9368= 909,798 tCO_2e (round down figure)

Year	**Baseline emission (tCO_2)**
2021	214,089
2022	695,709
Total	**909,798**

Thus, the baseline value of each SDG outcome is summarised as follows;

Item	Baseline value
SDG 7: Affordable and Clean Energy	No Activities in the baseline
SDG 8: Decent Work and Economic Growth	No Activities in the baseline
SDG 13: Climate Action	Emission of 909,798 tCO_2e

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 PDD, PE_y = 0 tCO_2e

Leakage:

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

Emission reductions:

Thus, the emission reductions are:

$ER_y = BE_y - PE_y$

= 909,798– 0

= **909,798 tCO_2e**

The actual achieved emission reduction for this monitoring period is 17% higher than estimated value in the GS PDD (909,798 tCO_2e against estimated 779,933 tCO_2e for 365 operational days with 779,933tCO_2e/annum). The increase in actual emission reduction are justified, since These comparisons show variation between estimated values and achieved value. Based on this analysis it is concluded that increase in emission reduction due to higher solar radiation which is almost 8.73% higher solar radiation as estimated in third party report. Furthermore, another factor, the plant is newly installed and because of good maintenance, the grid availability is also increase, as there is less break down and operation hours increase as compared. Also being a solar power project, the generation is nature dependent.

There is no any adverse impact on additionality due to this higher PLF of project activity for current monitoring period as the achieved PLF is within the breaching value of 35.39%. Further no design change in the project activity has taken place and even with an increased PLF which is achieved during this monitoring period, the equity IRR of the project is well below the benchmark. During the current monitoring period the project witnessed a PLF of 27.73% for 100MW & 27.71% for 300MW unit against the estimated PLF of 24%, which is same for both unit. which was considered at the validation of the project activity. However, it is to be noted here that even with actual PLF of 27.71% & 27.73% (achieved during present verification) the equity IRR of the project activity is 10.82% against the benchmark value of 13.41%. Further it was being analysed by the VVB that even after increase of 10% values in PLF than compared to actual PLF value, the IRR of the project is 3.19% which is well below the benchmark value and thus the project activity still remains additional.

3.7 Management and Operational System

The responsibilities of data measurement, collection, verifying, archiving etc. have been clearly defined in the registered PDD[/3/]. The same practice is followed onsite and it is confirmed by the assessment team during the site visit interviews with PP. The data related to ER calculation as well as data monitoring, collection process etc. have been internally reviewed by the management of the Monitoring team regularly. The responsibility of each function is consistent with the monitoring plan in the registered PDD.

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

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

All the data and documents, either hard copies or soft copies, is kept for two years after the end of the last crediting period or the last issuance of GS 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 27/10/2022, Monitoring report version 02 dated 27/12/2022 Monitoring report version 03 dated 28/12/2022
2.	ER sheets Version 01 dated 27/10/2022 ER Sheets version 02 dated 27/12/2022 ER Sheets version 03 dated 28/12/2022
3.	Registered PDD Version 07 dated 23/10/2020, Final GS Validation report version 02 dated 27/03/2020 Verification Report (1st Verification), version 01 Dated 27/03/2020 Verification Report (2nd Verification), version 02 Dated 17/12/2020 Verification Report (3rd Verification), version 05 Dated 14/06/2022 Performance Review (2nd Verification), version 1.2 GS Design documents
4.	ACM0002 Version 20.0 "Tool to calculate the emission factor for an electricity system Version no 7.0"
5.	CDM validation and verification standard for project activities, Version 03.0
6.	GS4GG guideline
7.	Training records of the employees (both skilled/non-skilled)
8.	O&M 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 power plant
12.	Log book records for scheduled maintenance of the 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 agreement
18.	O&M agreement
19.	Technical manual from the Manufacturer
20.	Employment records
21.	Project removal confirmation from VERRA dated 28/05/2020

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5. FINAL VERIFICATION STATEMENT

Applus+ Certification has been engaged by Adani Renewable Energy DEVCO Private Limited (Earlier known as SB Energy Pvt Ltd) to perform the 4th verification of the "400 MW Solar Power Project at Bhadla, Rajasthan" (GS Ref. No. GS7071).

The management of Adani Renewable Energy DEVCO Private Limited (Earlier Known as SB Energy 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 PDD and the applied methodology ACM0002 Version 20.0/4/.

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 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 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 "400 MW Solar Power Project at Bhadla, Rajasthan" for the monitoring period 01/10/2021 to 30/09/2022 (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:	01/10/2021 to 30/09/2022 (Both days included)

Verified emissions in the above reporting period:

Leakage emissions	0 tCO_2e equivalents
Project emissions	0 tCO_2e equivalents
Baseline emissions	909,798 tCO_2e equivalents
Emission reductions	909,798 tCO_2e equivalents

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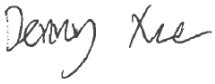
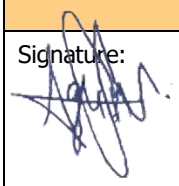
Vintage wise breakup of verified emission reduction is given below:

Year	Baseline emission (tCO_2)	Project Emission (tCO_2)	Emission Reduction (tCO_2)
01/10/2021 to 31/12/2021	214,089	0	214,089
01/01/2022 to 30/09/2022	695,709	0	695,709
Total	**909,798**	**0**	**909,798**

Date: 30/01/2023

Lead Auditor: Dr. Atul Takarkhede
Tech. Expert: Dr. Atul Takarkhede
Auditor in Trainee: Mr. Ishan Shrivastava
Tech. Reviewer: Mr. Denny Xue

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

ASSESSMENT TEAM	
Lead Auditor: Dr. Atul Takarkhede	**Technical Reviewer:** Mr. Denny Xue
Signature: 	Signature: 
Approver: Mr. Agustín Calle de Miguel	
Signature: 	

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

Type:	☐ CAR ☐ CL/CR ☒ FAR	Number:	01
Raised by:	Sustain-Cert	Ref. to checklist in above tables:	Performance Review Document
Description of the audit finding		Date:	13/12/2022
#01 In-line with GS4GG Principles and Requirements, VVB and PP shall consider the rule below for future monitoring activities: 5.1.39: An annual update report shall be provided to GS -when design certification is achieved- for each monitoring year by the end of next calendar year for which verification is not completed.			
Project Participant's response		Date:	27/12/2022
An annual update report is now provided to GS –Latest annual report is now provided to assessment team.			
Documentation provided as evidence by Project Participant			
Annual report dated 17.10.2022			
Auditor's assessment comment		Date:	28/12/2022
VVB team has verified that; PP has submitted the latest annual report dated 17-10-2022, to the VVB team. **Thus, this FAR is closed.**			

Type:	☐ CAR ☐ CL/CR ☒ FAR	Number:	02
Raised by:	Sustain-Cert	Ref. to checklist in above tables:	Performance Review Document
Description of the audit finding		Date:	13/12/2022
#02 FAR #3 of 2nd Performance Review: "When Covid-19 situation eases, implementation of physical meeting shall be integrated with SFR as per FAR raised during Design Certification and female contribution shall be prioritized." PP shall conduct the stakeholder meeting which has been postponed due to Covid-19 during next MP In-line with Stakeholder Consultation Requirements and provide the consultation report within three months of the event on SustainCert. Next verifying VVB shall verify the same.			
Project Participant's response		Date:	27/12/2022
Due to covid scenario local stakeholder consultation meeting was not conducted in year 2020-21, and same has been postponed for next year, then local stakeholder consultation meeting was held in April 2022 with all stakeholders, invitation of meeting, meeting documents and consultation report now has been provided			
Documentation provided as evidence by Project Participant			
Stakeholder consultation report Dated 24/12/2022			
Auditor's assessment comment		Date:	28/12/2022
VVB team has found that; GS stakeholder consultation report is not consistent with submitted copies of global stakeholder consultation report PP requested to submitted the correct stakeholder consultation report. **Hence, FAR is opened.**			
Project Participant's response		Date:	28/12/2022
Corrected local stakeholder report is now submitted to assessment team			
Documentation provided as evidence by Project Participant			

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PDF copy of Stakeholder consultation report Dated 24/12/2022		
Project Participant's response	Date:	29/12/2022
VVB team has verified that; PP has provided the latest copy of stakeholder consultation report dated 24/12/2022. **Hence, FAR is closed.**		

Type:	☐ CAR ☐ CL/CR ☒ FAR	Number:	03
Raised by:	Sustain-Cert	Ref. to checklist in above tables:	Performance Review Document
Description of the audit finding		Date:	13/12/2022
#03 Considering the higher realized ERs than estimated during 2nd and 3rd MP, same shall be checked and any case of more than 10% Increase, It shall be justified with evidence by VVB. Considering 20.93% higher generation than estimated during 3rd MP, PP and VVB shall note that If PLF increase at the rate of 35.39%, registered equity IRR reaches the benchmark; jeopardizing the additionality of the project. In such case, the issuance will be capped at the registered PDD estimation of SDG 13 during next performance review and design change request shall be submitted to GS to ensure the validity of the project activity.			
Project Participant's response		Date:	27/12/2022
During the present monitoring period, the project witnessed an increase of 17% in emission reductions as compared to ex-ante emissions, which is due to higher PLF achieved due to increased solar radiation and is thus nature dependent and not in control of PP. Further no design change in the project activity has taken place and even with an increased PLF which is achieved during this monitoring period, the equity IRR. The actual PLF obtained during the current verification period is 28%, as per the registered PDD PLF was considered 24%, which is higher than the estimated PLF. Even after increase in PLF during this monitoring period, the equity IRR is not breaching and remains below the benchmark value of 13.41%. Hence, it can be concluded that, due to increase in the PLF, there is no impact on the additionality of the project activity.			
Documentation provided as evidence by Project Participant			
ER sheet and MR version 2 dated 27/12/2022			
Auditor's assessment comment		Date:	28/12/2022
During document review, VVB team has observed that; the achieved PLF for current monitoring period for both the unit is not bifurcate by PP in emission reduction sheet. PP requested to submit the document with required correction. **Hence, FAR is still opened.**			
Project Participant's response		Date:	28/12/2022

During the present monitoring period, the project witnessed an increase of 17% in emission reductions as compared to ex-ante emissions, which is due to higher PLF achieved due to increased solar radiation and is thus nature dependent and not in control of PP. Further no design change in the project activity has taken place and even with an increased PLF which is achieved during this monitoring period, the equity IRR. The actual PLF obtained during the current verification period is 27.128% and 27.043% respectively for 300 mw and 100 mw, as per the registered PDD PLF was considered 24% for 300 mw and 100 mw, which is higher than the estimated PLF. Even after increase in PLF during this monitoring period, the equity IRR is not breaching and remains below the benchmark value of 13.41%. Hence, it can be concluded that, due to increase in the PLF, there is no impact on the additionality of the project activity.
Documentation provided as evidence by Project Participant
ER sheet and MR version 3 dated 28/12/2022

Project Participant's response	Dated:	29/12/2022
VVB team observed that; project activity has two unit contain 300MW & 100MW register PD has calculate separate PLF for both unit in registered PD. VVB team has verified that, PP has now provided PLF calculation as per register GS PD. VVB found that, same was provided in revised monitoring report & Emission Reduction sheet. **Thus, FAR is closed.**		

Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	01
Raised by:	Dr. Atul Takarkhede	Ref. to checklist in above tables:	N/A
Description of the audit finding		Date:	13/12/2022
Clarification requested for the registration of the project activity/sub-bundles in different mechanisms i.e. VCS, GS & CDM. Further, during document review; VVB team has observed that, project activity covering October 2021 month in third verification of VCS-1805 project activity. Thus, PP needs to clarify eligibility of the project activity simultaneously under GS & VCS mechanisms. Kindly clarify.			
Project Participant's response		Date:	27/12/2022
Based on the information that provided by Verra, it is understood that the project activity instances in question (SB Energy One Private Limited, SB Energy Three Private Limited, and SB Energy Four Private Limited) will henceforth be removed from the project, 1805 , Solar Energy Project(s) by SB Energy Private Limited, indefinitely. While the project will remain active with the Verra Registry, these project activity instances will no longer be permitted to issue Verified Carbon Units (VCUs) with the Verra Registry. https://registry.verra.org/app/projectDetail/VCS/1805			
Documentation provided as evidence by Project Participant			
Declaration letter provided by Verra dated 28/05/2020 now submitted to the assessment team			
Auditor's assessment comment		Date:	28/12/2022

VVB team has found that; project activity instances in question (SB Energy One Private Limited, SB Energy Three Private Limited, and SB Energy Four Private Limited) project activity already covering 01-10-2021 month in VCS-1805. However, on the basis of declaration provided by Verra dated 28-May-2020, VVB team has verified that, PP has removed the (SB Energy One Private Limited, SB Energy Three Private Limited, and SB Energy Four Private Limited) form VCS 1805 project activity. & it's not claiming double credit form both mechanisms. **Hence, CL is closed.**

Type:	☐ CAR ☒ CL/CR ☐ FAR	Number:	02
Raised by:	Dr. Atul Takarkhede	Ref. to checklist in above tables:	3.2
Description of the audit finding		Date:	13/12/2022
PP needs to clarify, the SDG indicator no. used for hazardous and non-hazardous waste in monitoring report.			
Project Participant's response		Date:	27/12/2022
The no 9.5 belongs to Hazardous and Non-hazardous Waste as per safeguarding principle requirement, In MR table not belongs to SDG.			
Documentation provided as evidence by Project Participant			
MR version -02 dated 27/12/2022			
Auditor's assessment comment		Date:	28/12/2022
PP has provided the clarification about the safeguarding principle for hazardous and non-hazardous waste in monitoring report. Hence, VVB team has found it consistent & error free. **Thus, this CL is closed.**			

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	01
Raised by:	Dr. Atul Takarkhede	Ref. to checklist in above tables:	3.2
Description of the audit finding		Date:	13/12/2022
During document review VVB team observed that, Geo-coordinate for project activity is inconsistent with register GS PDD. Hence, Correction is sought.			
Project Participant's response		Date:	27/12/2022
Geo-coordinate for project activity is now consistent with register GS PDD			
Documentation provided as evidence by Project Participant			
MR version -02 dated 27/12/2022			
Auditor's assessment comment		Date:	28/12/2022
VVB team has verified that, PP has submitted the updated monitoring report and Geo-coordinate for project activity is now found consistent with registered GS PDD. **Hence, CAR is closed.**			

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Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	02
Raised by:	Dr. Atul Takarkhede	Ref. to checklist in above tables:	NA
Description of the audit finding		Date:	13/12/2022

Following observation is made by the assessment team regarding monitoring parameter;

For SDGs 7.2.1: Renewable energy:

During document review VVB team has observed that, to verified the quantity of net electricity supplied by project activity; JMR for the month of September-2022 is missing. To verify the same; Invoice for the month of September-2022 is also found missing. Thus, PP requested to submit required documents.

For SDGs 12.4.1: Hazardous & Chemical Waste:

VVB observed that, to avoid the contamination of soil due to hazardous waste generated by project activity, Project Proponent has not submitted the logbook/agreement to the VVB team. Thus, CAR is raised.

Project Participant's response	Date:	15/12/2022
Generation statement for the month of September-2022 is now provided		
Documentation provided as evidence by Project Participant		
Generation statement for the month of September-2022		
Auditor's assessment comment	Date:	28/12/2022

For SDGs 7.2.1: Renewable energy:

PP has submitted the JMR for the month of September-2022 to the VVB team and data provided in Emission reduction sheet is found consistent with JMR. However, to cross-verify the net electricity supplied by project activity as per JMR. PP has also, submitted the copy of invoices to the VVB team.

Further VVB team observed that, Project activity has two unit which consistent 300 MW & 100MW. PP needs to bifurcate the generation. In emission reduction sheet. **CAR is opened till the correction is done.**

For SDGs 12.4.1: Hazardous & Chemical Waste:

VVB team found that; PP has implemented SAP for the data recording, the system generates the report whenever any waste is generated, However, VVB team has verified that, No waste is generated during the monitoring period, Hence report is not available but image for waste yard is now provided to PP for VVB verification.

Project Participant's response	Date:	28/12/2022
Generation and emission reduction is now bifurcated in 300 mw and 100 mw of project activity.		
Documentation provided as evidence by Project Participant		
ER sheet dated 28/12/2022 to the assessment team.		
Auditor's assessment comment	Date:	29/12/2022

Project Proponent calculate generation for both the unit in emission reduction & same was reflect in monitoring report. VVB team has verified that project activity has higher emission reduction compare to estimated emission for current monitoring period. Due to higher emission, PLF is increase. PP has calculated separate PLF as it was mention in register PDD. VVB found it conservative and accept it. **Hence, this CAR is closed.**

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Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	03
Raised by:	Dr. Atul Takarkhede	Ref. to checklist in above tables:	
Description of the audit finding		Date:	13/12/2022
No double accounting declaration for current monitoring period is not submitted to VVB team. Thus, CAR raised.			
Project Participant's response		Date:	27/12/2022
No double accounting declaration for current monitoring period is now submitted to assessment team			
Documentation provided as evidence by Project Participant			
No double accounting declaration letter by PP			
Auditor's assessment comment		Date:	28/12/2022
PP has submitted the "No double accounting declaration" dated 12-10-2022 to the VVB team which is found consistent & error free. **Hence, CAR is closed.**			

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	04
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.4A
Description of the audit finding		Date:	13/12/2022
During document review it was observed that, Energy meter details are provided in monitoring report. However, to verify the same PP has not submitted the complete meter calibration certificate to the VVB team. Thus, Correction is sought.			
Project Participant's response		Date:	27/12/2022
Meter calibration certificates covering entire monitoring period is now provided by PP to assessment team.			
Documentation provided as evidence by Project Participant			
Meter calibration certificates for the project activity			
Auditor's assessment comment		Date:	28/12/2022
VVB team has found that, PP has corrected the Energy meter details in monitoring report and to verify the same pp had submitted the meter calibration certificate to the VVB team. **Thus, this CAR is closed.**			

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Appendix 2: Calibration details of monitoring meters

Details of Meter Calibration:

For Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited):

Meter Number	Accuracy Class & Make	Calibration Date	Due date of Calibration	VVB Assessment
For Plot L1 A				
2843291 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2843292 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2843293 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
For Plot L1 B				
2843294 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2843295 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2843296 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
For Plot L1 C				
2843297 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2843298 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2843299 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
For Plot L1 D				
2843300 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2843301 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2843302 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	

Meter Number	Accuracy Class & Make	Calibration Date	Due date of Calibration	VVB Assessment
For Plot L4 A				
2843327 (Main Meter)	0.2 s, Elster	16/09/2020	15/09/2025	No delay observed.
2843328 (Check Meter)	0.2 s, Elster	16/09/2020	15/09/2025	
2843329 (Standby Meter)	0.2 s, Elster	16/09/2020	15/09/2025	
For Plot L4 B				

2843330 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2843331 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2843332 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
For Plot L4 C				
2843333 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2843334 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2843335 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
For Plot L4 D				
2843336 (Main Meter)	0.2 s, Elster	16/09/2020	15/09/2025	No delay observed.
2843337 (Check Meter)	0.2 s, Elster	16/09/2020	15/09/2025	
2843338 (Standby Meter)	0.2 s, Elster	16/09/2020	15/09/2025	

Meter Number	**Accuracy Class & Make**	**Calibration Date**	**Due date of Calibration**	**VVB Assessment**
For Plot L5 A				
2843339 (Main Meter)	0.2 s, Elster	16/09/2020	15/09/2025	No delay observed.
2843340 (Check Meter)	0.2 s, Elster	16/09/2020	15/09/2025	
2861545 (Standby Meter)	0.2 s, Elster	16/09/2020	15/09/2025	
For Plot L5 B				
2861546 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2861547 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2861548 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
For Plot L5 C				
2861549 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2861550 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
2861551 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	
For Plot L5 D				
2861552 (Main Meter)	0.2 s, Elster	15/09/2020	14/09/2025	No delay observed.
2861553 (Check Meter)	0.2 s, Elster	15/09/2020	14/09/2025	

2843326 (Standby Meter)	0.2 s, Elster	15/09/2020	14/09/2025	

For Adani Solar Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited):

Meter Number	Accuracy Class & Make	Calibration Date	Due date of Calibration	VVB Assessment
For Plot P2F1				
RJB92278 (Main Meter)	0.2 s, Elster	25/09/2019	24/09/2024	No delay observed.
RJB92275 (Check Meter)	0.2 s, Elster	25/09/2019	24/09/2024	
RJB92281 (Standby Meter)	0.2 s, Elster	25/09/2019	24/09/2024	
For Plot P2F2				
RJB92279 (Main Meter)	0.2 s, Elster	24/09/2019	23/09/2024	No delay observed.
RJB92276 (Check Meter)	0.2 s, Elster	24/09/2019	23/09/2024	
RJB92282 (Standby Meter)	0.2 s, Elster	25/09/2019	24/09/2024	
For Plot P2F3				
RJB92280 (Main Meter)	0.2 s, Elster	24/09/2019	23/09/2024	No delay observed.
RJB92277 (Check Meter)	0.2 s, Elster	24/09/2019	23/09/2024	
RJB92283 (Standby Meter)	0.2 s, Elster	24/09/2019	23/09/2024	

Meter Number	Accuracy Class & Make	Calibration Date	Due date of Calibration	VVB Assessment
For Plot P3F1				
RJB92288 (Main Meter)	0.2 s, Elster	24/09/2019	23/09/2024	No delay observed.
RJB92289 (Check Meter)	0.2 s, Elster	24/09/2019	23/09/2024	
RJB92292 (Standby Meter)	0.2 s, Elster	24/09/2019	23/09/2024	
For Plot P3F2				
RJB92285 (Main Meter)	0.2 s, Elster	24/09/2019	23/09/2024	No delay observed.
RJB92284 (Check Meter)	0.2 s, Elster	24/09/2019	23/09/2024	
RJB92291 (Standby Meter)	0.2 s, Elster	24/09/2019	23/09/2024	
For Plot P3F3				
RJB92286 (Main Meter)	0.2 s, Elster	24/09/2019	23/09/2024	No delay observed.
RJB92287 (Check Meter)	0.2 s, Elster	24/09/2019	23/09/2024	

RJB92290 (Standby Meter)	0.2 s, Elster	24/09/2019	23/09/2024	

Appendix 3: Audit Team CVs

Name	**SHORT CV. BACKGROUND INFORMATION**
Dr. Atul Takarkhede	**Dr. Atul Takarkhede** is Ph.D. (Environmental Sciences) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical papers related to environmental sciences. He counts with more than 11 years of experience in field of Environmental Auditing, consulting and accreditation. He is an expert in ISO 9001-14001, CO2/GHG Reporting, Carbon Foot Print, Energy, Water and Waste Management reporting for organizations' environmental performance. His professional portfolio is mainly related with carrying out EIA, conducting QA/QC of EIA Reports; conducting environmental/water audits; NABET requirements appliance, functional area expert in Water Pollution & Solid & Hazardous Waste management among others. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. Currently he is associated with True Quality Certifications Private Limited and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes.
Mr. Ishan Shrivastava	Mr. Ishan Shrivastava, has done bachelor of engineering in Mechanical Engineering from Rajiv Gandhi Proudyogiki Vishwavidyalaya, India. He has a year of working experience in India's one of the Maharatna Company i.e. GAIL (India) Limited in the area of Natural Gas, Energy & Environment. Currently. he is working in True Quality Certifications Pvt. Ltd. (An outsource entity for LGAI Technological Center, S.A. (Spain) "Applus+ Certification") since 2019 and has been involved in supporting Audit teams for Verifications of Project Activities (Renewable and non-Renewable projects) under CDM/VCS/GS4GG programs.
Mr. Denny Xue	Mr. Denny Xue (Master's Degree in Environmental Engineering, Bachelor's Degree in Thermal 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 technical review with Applus+. Before he joined Applus+ LGAI, he has been working for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development. Mr. Denny Xue is based in Shanghai, China. Mr. Denny Xue participates in the project's technical review team.