



RENEWABLE SOLAR POWER PROJECT BY RENEW SOLAR POWER PRIVATE LIMITED



South Asia

Document Prepared By

TÜV SÜD South Asia Pvt Ltd

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Summary:

TÜV SÜD South Asia Pvt. Ltd. has performed the third verification of the aforementioned VCS project activity. The verification is based on the currently valid documentation of the VCS and United Nations Framework Convention on Climate Change (UNFCCC).

The Verification has been conducted for the monitoring period 25-December-2019 to 25-May-2021

The verification process includes three phases:

- Desk review of documents;
- Remote audit and follow-up interviews with the relevant personnel;
- Resolution of outstanding issues and the issuance of final verification report and opinion.

The project activity involves the installation of 927 MW solar power project in Gujarat, Karnataka, Madhya Pradesh, Rajasthan and Telangana states of India. The solar projects have been developed by 26 nos. SPVs of ReNew Solar Power Private Limited. The generated power from this project is supplied to Indian grid.

During the Current Monitoring Period, all the solar plants were operational. The project has not been registered under any other mechanism. The start date of the project activity is 13th Feb 2017 which is the earliest date of commissioning for one of the SPVs in the project.

1 Clarification Request (CL) and 1 Corrective Action Request (CAR) have been raised during the course of verification process and has been successfully closed. No Corrective Action Request (CAR) and Forward Action Request (FAR) was raised during this monitoring period.

TÜV SÜD confirms that the monitoring plan has been implemented and the emission reductions are calculated without any material misstatements.

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1 INTRODUCTION

1.1 Objective

TÜV SÜD has been commissioned by the aforementioned client to perform an independent verification assessment. The objective of the verification work is to comply with the requirements of Verified Carbon Standards requirements.

According to this assessment TÜV SÜD 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,
- the project's baseline is assessed against "ACM0002 - Version 19"
- the project's monitoring plan is assessed against "ACM0002 - Version 19"
- ensure that the initial MR and other supporting documents provided are complete, verifiable and in accordance with applicable VCS and CDM VVS PA v2.0 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 applicable requirements.
- assessment of the sustainability monitoring parameters as per the VCS requirements

1.2 Scope and Criteria

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities.

In the case of VCS project activities, the scope is set by:

- VCS v4.0 requirements
- Clean Development Mechanism Validation and Verification Standard (VVS) for Project Activities v2.0
- Baselines and monitoring methodologies (including GHG inventories)
- Environmental issues relevant to the applicable sectoral scope
- Current technical and operational knowledge of the specific sectoral scope and information on best practice
- Stakeholder consultation and feedback

The verification process is not meant to provide any form of consulting for the project participant (PP). However, stated requests for clarifications, corrective actions, and/or forward actions may provide input for improvement of the project design

1.3 Level of Assurance

The errors identified in the project are below the threshold limit of materiality and hence not material. The GHG emission reductions are calculated without material misstatements.

The VVB confirms that a reasonable level of assurance has been achieved during the verification process.

1.4 Summary Description of the Project

The project activity involves the installation of 927 MW solar power project in Gujarat, Karnataka, Madhya Pradesh, Rajasthan and Telangana states of India. The solar projects have been developed by 26 nos. SPVs of ReNew Solar Power Private Limited. The generated power from this project is supplied to Indian grid.

The capacities of each SPV along with the dates of commissioning of these are given below.

The Commissioning Certificates of each Solar power plant have been verified by the audit team. The location of these plants have been confirmed from the maps. The technical specifications provided for each of the SPVs have been checked from the commissioning certificates.

S. No.	Name of SPV	Capacity (MW)	Date of Commissioning	State
1	Bhumi Prakash Private Limited	20	26.09.2017	Karnataka
2	Renew Wind Energy (MP Four) Private Limited	20	28.04.2017	
3	Renew Agni Power Private Limited	20	31.03.2017	
4	Renew Wind Energy (Karnataka 3) Private Limited	20	27.03.2017	
5	Tarun Kiran Bhoomi Private Limited	20	31.03.2017	
6	Renew Wind Energy (Karnataka 4) Private Limited	20	31.03.2017	
7	Renew Wind Energy (Budh 3) Private Limited	20	16.03.2018	
8	Renew Wind Energy (Budh 3) Private Ltd	20	09.03.2018	
9	Renew Wind Energy (Budh 3) Private Limited	20	30.12.2017	
10	Renew Wind Energy (Maharashtra) Private Limited	20	13.10.2017	
11	Renew Wind Energy (Rajasthan Four) Private Limited	20	07.12.2017	
12	Renew Wind Energy (MP Three) Private Limited	20	11.11.2017	
13	Renew Saur Urja Private Limited	50	26.05.2017	
14	Renew Wind Energy (TN2) Private	50	14.12.2017	

	Limited			
15	Renew Solar Energy (Karnataka Two) Private Limited	40	31.03.2017	Gujarat
16	Renew Clean Energy Private Limited	51	01.10.2017	Madhya Pradesh
17	Aalok Solarfarms Limited	10	06.11.2017	Rajasthan
18	Abha Solarfarms Limited	10	17.10.2017	
19	Heramba Renewbles Limited	20	17.10.2017 28.10.2017	
20	Shreyas Solarfarms Limited	20	17.11.2017	
21	ReNew Solar Energy (Telangana) Private Limited	143	28.04.2017 16.05.2017 22.06.2017 03.07.2017 12.07.2017	Telangana
22	Renew Mega Solar Power Private Limited	48	13.02.2017 21.02.2017	
23	Renew Saur Shakti Private Limited	30	14.02.2017 04.03.2017 30.03.2017 30.05.2017 11.06.2017	
24	Renew Saur Shakti Private Limited	65	29.05.2017 07.07.2017	
25	Renew Wind Energy (TN2) Private Limited	100	01.11.2017	
26	Prathamesh Solarfarms Limited	50	20.09.2017	
	Total	927		

2 VERIFICATION PROCESS

The audit team has performed the third verification of the project activity. No validation activities have been performed during this verification.

2.1 Method and Criteria

The information provided by the project participants is assessed by applying the means of verification specified in the VCS v4, Toolkit and the VVS.

A competent assessment team is selected prior to the start of the verification. The team is selected to cover the technical area(s), sectoral scope(s) and relevant host country experience for evaluating the VCS project activity. Additionally, a competent Technical Reviewer or Technical Reviewer Team is appointed to conduct checks on quality and completeness.

The verification team performs first a desk review, followed by remote assessment, which results in the formation of a draft report and a list of findings. The next step involves the evaluation of the findings through direct communication with the PPs and then finally the preparation of the verification report. This verification report and other supporting documents then undergo an internal quality control by the CB “Environment and energy” before submission to the VCS.

2.2 Document Review

The documents referred during the course of this verification are provided in Appendix 1

2.3 Interviews

The VVB has not conducted the on-site inspection for this current monitoring period due to obligations imposed by COVID 19. However the VVB has ensured that reasonable level of assurance has been achieved as per Verra regulations on the relaxation of mandatory site visits by the VVB due to Covid-19. The VVB has conducted telephonic interviews and video calls to discuss with the client regarding the data and documents pertaining to the current verification period. The interviews and discussions were conducted successfully.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Sharma	Aditya	Project owner	04/09/2021	Implementation of the project, O&M activities, Metering arrangements, Calibrations, JMR, On-going LSC. etc. Plant technology	Eswar Murty
2	Sharma	Barun	EKI Energy Services Ltd PP representative	04/09/2021	VCS monitoring	Eswar Murty
3	Das	Kingshuk	EKI Energy Services Ltd PP representative	04/09/2021	VCS monitoring	Eswar Murty

2.4 Site Inspections

Please refer section 2.3

2.5 Resolution of Findings

CL from this verification

CL ID	01	Section no.	Date: 04/09/2021
Description of CAR			
PP to provide the following documents			
1. Commissioning Certificates of all SPVs			
2. PPA for each state			
3. Calibration certificates for all meters in all SPVs			
4. Confirmation for no double counting for each project			
Project participant response			Date: 08/09/2021
The following documents are now submitted to the DOE assessment team.			
1. Commissioning Certificates of all SPVs			
2. PPA			
3. Calibration Certificates of all meters of each SPV			
4. Declaration of no double counting			
Documentation provided by project participant			
1. Commissioning Certificates of all SPVs			
2. PPA			
3. Calibration Certificates of all meters of each SPV			
4. Declaration of no double counting			
DOE assessment			Date: 08/09/2021
The documents provided by the PP are checked by the audit team. Hence the issue is closed.			

CAR from this verification

CAR ID	01	Section no.		Date: 04/09/2021
Description of CAR				
1. MR does not provide any information on the main and check meters, their S.No, accuracy etc and it is not clear if the same meters were used for the current monitoring period. 2. The calibration details of main and check meter for the whole monitoring period are not provided in the MR.				
Project participant response				Date: 08/09/2021
1. The details of energy meters and the calibration details of the energy meters are now provided in the appendix-1 of the MR. 2. The calibration details of the energy meters are now provided in the appendix-1 of the MR.				
Documentation provided by project participant				
1. Revised MR 2. Calibration Certificates of all meters of each SPV				
DOE assessment				Date: 08/09/2021
The details are provided in the MR. Hence the issue is closed.				

2.5.1 Forward Action Requests

This is 3rd periodic verification of the project activity and no FAR was raised from validation or previous verification

2.6 Eligibility for Validation Activities

Not applicable since this is the 3rd periodic verification.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

Project is not registered with any other GHG program except for VCS.

3.2 Methodology Deviations

No deviations from the methodology.

3.3 Project Description Deviations

PP seeks deviation from the “Source of data” under monitoring parameters for one of the SPVs- Renew Wind Energy (TN2) Private Limited, 50 MW plant at Pavgada. The source of data for the generation was Form-B and the same has been considered as the source of generation data till Jan-2020 as per the monitoring plan. However from Jan-2020 onwards, REA statements are

being issued. Hence, the generation data from Jan-2020 onwards has been taken from the REA statements. The change in source of data for the generation is as per the requirement of State electricity authority and PP has no control over the same.

The audit team has checked both the sources of data before and after the deviation and confirms the deviation with respect to this plant.

This deviation does not impact the applicability of the methodology, additionality, or the appropriateness of the baseline scenario.

3.4 Grouped Project

This is not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

The project has not been registered or rejected under any other GHG program.

The project has not received or sought any other form of environmental credit or has become eligible to do so since validation or previous verification. The GHG emission reductions or removals generated by the project have not been included in an emissions trading program or any other mechanism that includes GHG allowance trading, and sustainable development contributions.

The project has been commissioned and the commissioning details of the project are provided below for all the 26 nos. companies

S. No.	Name of SPV	Capacity (MW)	Date of Commissioning	State
1	Bhumi Prakash Private Limited	20	26.09.2017	Karnataka
2	Renew Wind Energy (MP Four) Private Limited	20	28.04.2017	
3	Renew Agni Power Private Limited	20	31.03.2017	
4	Renew Wind Energy (Karnataka 3) Private Limited	20	27.03.2017	
5	Tarun Kiran Bhoomi Private Limited	20	31.03.2017	
6	Renew Wind Energy (Karnataka 4) Private Limited	20	31.03.2017	
7	Renew Wind Energy (Budh 3) Private Limited	20	16.03.2018	
8	Renew Wind Energy (Budh 3) Private Ltd	20	09.03.2018	
9	Renew Wind Energy (Budh 3) Private Limited	20	30.12.2017	

10	Renew Wind Energy (Maharashtra) Private Limited	20	13.10.2017	
11	Renew Wind Energy (Rajasthan Four) Private Limited	20	07.12.2017	
12	Renew Wind Energy (MP Three) Private Limited	20	11.11.2017	
13	Renew Saur Urja Private Limited	50	26.05.2017	
14	Renew Wind Energy (TN2) Private Limited	50	14.12.2017	
15	Renew Solar Energy (Karnataka Two) Private Limited	40	31.03.2017	Gujarat
16	Renew Clean Energy Private Limited	51	01.10.2017	Madhya Pradesh
17	Aalok Solarfarms Limited	10	06.11.2017	Rajasthan
18	Abha Solarfarms Limited	10	17.10.2017	
19	Heramba Renewables Limited	20	17.10.2017 28.10.2017	
20	Shreyas Solarfarms Limited	20	17.11.2017	
21	ReNew Solar Energy (Telangana) Private Limited	143	28.04.2017 16.05.2017 22.06.2017 03.07.2017 12.07.2017	Telangana
22	Renew Mega Solar Power Private Limited	48	13.02.2017 21.02.2017	
23	Renew Saur Shakti Private Limited	30	14.02.2017 04.03.2017 30.03.2017 30.05.2017 11.06.2017	
24	Renew Saur Shakti Private Limited	65	29.05.2017 07.07.2017	
25	Renew Wind Energy (TN2) Private Limited	100	01.11.2017	
26	Prathamesh Solarfarms Limited	50	20.09.2017	
	Total	927		

To verify the implementation of project activity, technical specifications of Turbine/Generator, onsite operation & maintenance, monitoring & management practices; assessment team has conducted Skype video call/telephonic interviews with onsite in-charge, O&M team and also had a detail discussion with the PP representative and reviewed third party statutory documents i.e. Technical specifications by manufacturer, Commissioning certificates, Complete set of JMRs covering monitoring period, breakdown log, O&M schedule, grievance register and other relevant records. Same are also cross-checked with photographs/videos submitted by PP for current monitoring period were found to be consistent with the description given in the registered VCS PD.

After MS-Teams interviews with concerned onsite persons, document reviews & site videos/photographs submitted by PP; assessment team concluded that the project activity is still implemented and operated in-line with the registered VCS PD & CDM PDD. There is no change in the project design or operation and monitoring practices at site which can alter the applicability or additionality of the project activity. In addition to the interviews with PP, assessment team have checked the commissioning certificate and JMRs and found that the project activity is implemented as per the VCS PD and Monitoring report submitted by the PP for current monitoring period. Assessment team therefore of the opinion that project is implemented as described in the registered PD and there is no change in monitoring practices as well as all monitoring parameters as envisaged in the VCS PD & MR. All the monitored values are supported by the evidences i.e. JMRs and found that information provided in the MR is inline with the submitted evidences

Means of verification	Referring to VCS v4 and p.360, p.361, p.363 and p.364 of CDM VVS PA, v2.0, the below tables provide a summary on the verification of each monitoring parameter listed in the registered monitoring plan. <table border="1" data-bbox="500 814 1336 1444"> <tr> <td>Data / Parameter:</td><td>EGPJ, y,KA</td></tr> <tr> <td>Data unit:</td><td>MWh</td></tr> <tr> <td>Description:</td><td>Quantity of net electricity generation supplied by the project plant/unit to the grid in year y</td></tr> <tr> <td>Source of data used:</td><td>Daily generation records, Monthly Joint Meter Reading (JMR) reports</td></tr> <tr> <td>Means of verification/Comments:</td><td>The audit team has checked the JMRs for each of the SPVs which are based on the daily generation records. The export and import values are monitored by main and check meters installed at the grid sub station in various states.</td></tr> <tr> <td>Cross-check</td><td>Cross checked with invoices raised to the state electricity boards</td></tr> </table> Compliance with the calibration frequency requirements for measuring instruments As per the registered monitoring plan, the meters are to be calibrated once in 5 years. The audit team has checked the calibration certificates and records of the monitoring equipment as given below.	Data / Parameter:	EGPJ, y,KA	Data unit:	MWh	Description:	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y	Source of data used:	Daily generation records, Monthly Joint Meter Reading (JMR) reports	Means of verification/Comments:	The audit team has checked the JMRs for each of the SPVs which are based on the daily generation records. The export and import values are monitored by main and check meters installed at the grid sub station in various states.	Cross-check	Cross checked with invoices raised to the state electricity boards
Data / Parameter:	EGPJ, y,KA												
Data unit:	MWh												
Description:	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y												
Source of data used:	Daily generation records, Monthly Joint Meter Reading (JMR) reports												
Means of verification/Comments:	The audit team has checked the JMRs for each of the SPVs which are based on the daily generation records. The export and import values are monitored by main and check meters installed at the grid sub station in various states.												
Cross-check	Cross checked with invoices raised to the state electricity boards												
Conclusion	The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. All parameters were monitored and determined as per the registered monitoring plan. Referring to p.360, p.361, p.363 and p.364 of CDM VVS PA, v2.0, VVB confirms through video call and telephonic interviews and from the document review, the actual monitoring system complies with the registered monitoring plan. The substantiation of this conformity on information flow for these parameters including the values in the monitoring reports is reported in the above section.												

	During the verification, all relevant monitoring parameters of the registered monitoring plan have been verified with regard to the appropriateness of the verification method, the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. After appropriate corrections, carried out by the project participant, it is confirmed that all monitoring parameters have been measured / determined without material misstatements and are in line with all applicable standards and relevant requirements. All parameters required to be monitored are recorded at the intervals required by the registered monitoring plan and the applied methodology. On the basis of review of source and nature of available evidences and records, the verification team confirms the quality of evidence for emission reduction provided is sufficient as per CDM VVS PA, v2.0.
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Calibration of the meters

Name of SPVs	Capacity in MW	Meter Serial No.	Accuracy Class	Make	Date of Calibration	Due date of calibration
Bhumi Prakash Private Limited	20 MW	Main Meter-15197833	0.2 s	L & T	23.09.2017	22.09.2022
		Check Meter-15197834	0.2 s	L & T	23.09.2017	
Renew Wind Energy (MP Four) Private Limited	20 MW	Main Meter-16083161	0.2 s	L & T	20.04.2017	19.04.2022
		Check Meter-16083118	0.2 s	L & T	20.04.2017	
Renew Agni Power Private Limited	20 MW	Main Meter-16113386	0.2 s	L & T	21.02.2017	20.02.2022
		Check Meter-16113401	0.2 s	L & T	21.02.2017	
Renew Wind Energy (Karnataka 3) Private Limited	20 MW	Main Meter-16113413	0.2 s	L & T	05.02.2017	04.02.2022
		Check Meter-16113221	0.2 s	L & T	05.02.2017	
Tarun Kiran Bhoomi	20 MW	Old Main Meter-15197833	0.2 s	L & T	12.02.2017	03.09.2024
		Old Check Meter-15197834	0.2 s	L & T	12.02.2017	

Private Limited ¹		New Main Meter-16193095	0.2 s	L & T	04.09.2019	
		New Check Meter-13192165	0.2 s	L & T	04.09.2019	
Renew Wind Energy (Karnataka 4) Private Limited	20 MW	Main Meter-16083139	0.2 s	L & T	06.03.2017	05.03.2022
		Check Meter-16083133	0.2 s	L & T	06.03.2017	
Renew Wind Energy (Budh 3) Private Limited	20 MW	Main Meter-17069178	0.2 s	L & T	23.02.2018	22.03.2023
		Check Meter-17069183	0.2 s	L & T	23.02.2018	
Renew Wind Energy (Budh 3) Private Ltd	20 MW	Main Meter-17166928	0.2 s	L & T	14.02.2018	13.02.2023
		Check Meter-17166940	0.2 s	L & T	14.02.2018	
Renew Wind Energy (Budh 3) Private Limited	20 MW	Main Meter-16113377	0.2 s	L & T	20.12.2017	19.12.2022
		Check Meter-16113373	0.2 s	L & T	20.12.2017	
Renew Wind Energy (Maharashtra) Private Limited	20 MW	Main Meter-16113430	0.2 s	L & T	30.06.2017	29.06.2022
		Check Meter-16113436	0.2 s	L & T	30.06.2017	
Renew Wind Energy (Rajasthan Four) Private Limited	20 MW	Main Meter-16112918	0.2 s	L & T	27.09.2017	26.09.2022
		Check Meter-16112913	0.2 s	L & T	27.09.2017	

¹ The newly calibrated main & check meters were installed on 04.09.2019.

Renew Wind Energy (MP Three) Private Limited	20 MW	Main Meter-16112933	0.2 s	L & T	27.09.2017	26.09.2022
		Check Meter-16112921	0.2 s	L & T	27.09.2017	
Renew Saur Urja Private Limited	50 MW	Old Main Meter-16083197	0.2 s	L & T	27.04.2017	26.04.2022
		Old Check Meter-16083162	0.2 s	L & T	27.04.2017	
		New Main Meter-17117926	0.2 s	L & T	27.04.2017	26.04.2022
		New Check Meter-17117928	0.2 s	L & T	27.04.2017	
Renew Wind Energy (TN2) Private Limited	50 MW	Main Meter-16195517	0.2 s	L & T	08.12.2017	07.12.2022
		Check Meter-16195508	0.2 s	L & T	08.12.2017	
		Main Meter-16195519	0.2 s	L & T	08.12.2017	
		Check Meter-16195523	0.2 s	L & T	08.12.2017	
Renew Solar Energy (Karnataka Two) Private Limited	40 MW	10195523	0.2 s	Secure	20.03.2017	19.03.2022
Renew Clean Energy Private Limited	51 MW	XE518730 XE518731	0.2 s	Secure	25.05.2017	24.05.2022
Aalok Solarfarms Limited	10 MW	17075514	0.2 s	L & T	08.08.2017	07.08.2022

Abha Solarfarms Limited	10 MW	17075486	0.2 s	L & T	04.08.2017	03.08.2022
Heramba Renewables Limited	20 MW	17075537	0.2 s	L & T	04.08.2017	03.08.2022
		17075547	0.2 s	L & T	04.08.2017	
Shreyas Solarfarms Limited	20 MW	17075525	0.2 s	L & T	04.08.2017	03.08.2022
		17075530	0.2 s	L & T	04.08.2017	
ReNew Solar Energy (Telangana) Private Limited	143 MW	Main Meter-APX01166	0.2 s	Secure	22.10.2016	21.10.2021
		Check Meter-APX01167	0.2 s	Secure	22.10.2016	
		Standby Meter-APX01168	0.2 s	Secure	22.10.2016	
Renew Mega Solar Power Private Limited	48 MW	Main Meter-APX01147	0.2 s	Secure	10.01.2017	09.01.2022
		Check Meter-APX01148	0.2 s	Secure	10.01.2017	
		Standby Meter-APX01149	0.2 s	Secure	10.01.2017	
Renew Saur Shakti Private Limited	30 MW	Main Meter-16196362	0.2 s	L & T	10.01.2017	10.01.2022
		Check Meter-16196398	0.2 s	L & T	10.01.2017	
		Standby Meter-16196385	0.2 s	L & T	10.01.2017	
Renew Saur Shakti Private Limited	65 MW	Main Meter-16196322	0.2 s	L & T	11.01.2017	10.01.2022
		Check Meter-16196377	0.2 s	L & T	11.01.2017	
		Standby Meter-16196411	0.2 s	L & T	11.01.2017	

Renew Wind Energy (TN2) Private Limited	100 MW	Main Meter-APZ00378	0.2 s	Apex 150	08.10.2017	09.10.2022
		Check Meter-APZ00379	0.2 s	Apex 150	08.10.2017	
		Standby Meter-APZ00380	0.2 s	Apex 150	08.10.2017	
Prathamesh Solarfarms Limited	50 MW	Main Meter-XD551233	0.2 s	Secure	18.09.2017	17.09.2022
		Check Meter-XD551234	0.2 s	Secure	18.09.2017	
		Standby Meter-XD551235	0.2 s	Secure	18.09.2017	

The calibration certificates have been checked by the audit team and confirmed that there was no delay in calibration of meters. The calibration frequency specified in the registered PD has been followed during the current monitoring period

4.2 Safeguards

4.2.1 No Net Harm

The project do not have any negative environmental and social impacts

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration. As confirmed by PP during interviews, for on-going stakeholders' communication, PP has maintained feedback/complaint register at the site office. Local stakeholders can anytime lodge their grievances if any in the register over the operational life time of the project.

During current monitoring period no grievance was received. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate

4.3 AFOLU-Specific Safeguards

This section is not applicable as this project activity is a non-AFOLU project activity.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The assessment of data and the calculation of baseline emission reduction in the MR and the ER excel sheet have been verified as per the following set of supporting documents: 1. Energy bills 2. Joint meter readings 3. VER spreadsheets 4. Sales Invoices $BE_y = EGPJ_y * EF_{grid,CM,y}$
Conclusion	Calculations applied formulae and method for calculation of baseline emission are in accordance with the registered monitoring plan and are in line with the requirements of the applied methodology.

Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in
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	accordance with the formulae and methods described in the registered monitoring plan
Conclusion	Project emissions are zero as per the requirement of the methodology and registered VCS PD.

Calculation of leakage GHG emissions

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan
Conclusion	Leakage emissions are not applicable according to the applied methodology and registered VCS PD.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	No lack of evidence and missing data were detected during this monitoring period. All values as per the monitoring plan were crosschecked by the verification team against basic monitored data and the calculations were found to be correct. The verification team confirms that all assumptions, emission factors and default values have been correctly justified. Hence the VVB confirms that the methods and formulae used to obtain the emissions are appropriate. No reporting risks have been identified for the data reported. Troubleshooting procedure, maintenance and calibration of monitoring equipment, monitoring measurements and reporting, record handling and maintenance, reviewing monitored data are available at the plant. All the monitored data are archived partially in electronic and paper form. The data will be kept for the whole crediting period and 2 years after the last crediting period thereby meeting the requirement of the monitoring plan.
Conclusion	The formulae and the methods referred in the MR and the emission reduction calculation spread sheet comply with the methods described in the registered PD. No lack of evidence and missing data were detected during this monitoring period. All values as per the monitoring plan were crosschecked by the verification team against basic monitored data and the GHG emission calculation is found correct. TUV SUD confirms that all assumptions, emission factors and default values have been correctly justified. All the emission factors and default values are explicitly mentioned in the monitoring report. Calculations applied formulae and method for calculation of GHG emission are in accordance with the registered monitoring plan and are in line with the requirements of VCS, the applied methodology and p. 372, p.373 of CDM VVS PA ver 2.0.

4.6 Non-Permanence Risk Analysis

Not applicable.

5 VERIFICATION CONCLUSION

: The VVB confirms that

- the development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;
- the project is operated as planned and described in the project design document approved by the VCS;
- 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 monitoring plan in Monitoring Report is as per the VCS PD and monitoring plan approved by the VCS;
- the approved monitoring plan in the approved VCS DD is as per the applied methodology;
- There is an audit trail that contains the evidence and records that validate the stated figures.

Based on the information we have seen and evaluated, we confirm that the project activity achieved the verified amount of reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the project activity

Verification period: From [25-December-2019](#) to [25-May-2021](#)

Verified GHG emission reductions and removals in the above verification period

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2019	40,386	0	0	40,386
2020	1,709,793	0	0	1,709,793
2021	746,718	0	0	746,718
Total	2,496,897	0	0	2,496,897

APPENDIX X: < DOCUMENTS REVIEWED >

No.	Author	Title	References to the document
1.	UNFCCC	CDM VVS for PA v2.0	-
2.	UNFCCC	Methodology ACM0002 Ver.19	-
3.	Verra	VCS Standard v4.0	-
4.	VCS	Final VCS PD	Version 02 02/02/2019
5.	ReNew Solar Power Private Limited	Final Monitoring report	Version 02 08/09/2021
6.	ReNew Solar Power Private Limited	Revised Emission Calculation sheet version 02	Version 02 08/09/2021
7.		The operational lifetime of the project activity from the manufacturer=(Technical specifications)	Manufacturer technical specifications
8.		Ministry of Environment and forest: www.envfor.nic.in UNFCCC www.cdm.unfccc.int CEA: Central electricity authority www.cea.nic.in VCS: Verified Carbon Standard www.v-c-s.org	Reference link is provided.
9.	NA	Tools/ guidelines used in the project activity - Tool to determine the remaining lifetime of the project activity in line with Annex 15 EB 50 - Tool to calculate the emission factor for an electricity system - Glossary of CDM terms version 07 - VCS verification report template version 4.0	UNFCCC CDM web site
10.		JMR records for the complete monitoring period	JMR records
11.		Invoices for the complete monitoring period	Invoice
12.	PP	Letter of declaration dated from PP regarding not having created or sought any other form of environmental credit for the same period and double counting	-
13.	PP	Commissioning Certificates for all the individual WTGs	
14.	NA	Break down details of the complete monitoring period	Log sheet
15.	NA	Teams and telephonic interviews carried out with PP as part of remote audit due COVID-19 situation in India	NA
16.	NA	Calibration certificate of all energy meters	--

17.	NA	Site photographs	-
18.	NA	GPS Coordinates	-
19.	NA	Single line diagram for metering arrangements	-