



## Verification Report

**UCR ID: 356**

**Prepared by**




**Naturelink Solutions Pvt. Ltd.**

<b>Title</b>	<b>Large Scale Solar Power Project in Rajasthan</b>
<b>Project Owner</b>	<b>M/s RSWM Ltd.</b>
<b>Project Location</b>	<b>Village: Kharigram, Gulabpura, Dist.: Bhilwara, State: Rajasthan, India.</b> <b>Coordinates: 25°53'21.3"N 74°38'01.7"E</b> <b>Village: Mordi, Dist.: Banswara, State: Rajasthan, India.</b> <b>Coordinates: 23°37'38"N 74°21'41"E</b>
<b>Date</b>	<b>14/06/2024</b>

**COVER PAGE****Project Verification Report Form (VR)****BASIC INFORMATION**

<b>Name of approved UCR Project Verifier / Reference No.</b>	Naturelink Solutions Pvt. Ltd
<b>Type of Accreditation</b>	<input type="checkbox"/> CDM Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> UCR Approved Verifier
<b>Approved UCR Scopes and GHG Sectoral scopes for Project Verification</b>	Sectoral Scope: 01 Energy Industries
<b>Validity of UCR approval of Verifier</b>	May - 2022 onwards
<b>Completion date of this VR</b>	14/06/2024
<b>Title of the project activity</b>	Large Scale Solar Power Project in Rajasthan
<b>Project reference no. (as provided by UCR Program)</b>	356
<b>Name of Entity requesting verification service</b>	M/s. Creduce Technologies Private Limited (Aggregator) M/s. RSWM Ltd. (Project owner)
<b>Contact details of the representative of the Entity, requesting verification service</b> (Focal Point assigned for all communications)	Mr. Shailendra Singh Rao (Creduce) shailendra@credcue.tech Mr. N. K. Bahedia (COO, RSWM Ltd.) nkbahedia@lnjbhilwara.com
<b>Country where project is located</b>	India
<b>Applied methodologies</b>	ACM0002: Large – Scale Consolidated methodology: Grid-connected electricity generation from renewable sources - Version 21.0
<b>Sectoral Scope(s):</b>	1 Energy industries (renewable - / non-renewable sources)
<b>Project Verification Criteria:</b>	<input checked="" type="checkbox"/> UCR Verification Standard

Mandatory requirements to be assessed	<input checked="" type="checkbox"/> Applicable Approved Methodology <input type="checkbox"/> Applicable Legal requirements /rules of the host country <input checked="" type="checkbox"/> Eligibility of the Project Type <input checked="" type="checkbox"/> Start date of the Project activity <input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology <input checked="" type="checkbox"/> Credible Baseline <input checked="" type="checkbox"/> Do No Harm Test <input checked="" type="checkbox"/> Emission Reduction calculations <input checked="" type="checkbox"/> Monitoring Report <input checked="" type="checkbox"/> No GHG Double Counting <input type="checkbox"/> Others (please mention below)
<b>Project Verification Criteria:</b> Optional requirements to be assessed	<input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria <input type="checkbox"/> Social Safeguards Standard do-no-harm criteria
<b>Project Verifier's Confirmation:</b> The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:	The UCR-approved verifier Naturelink Solution Pvt. Ltd., verifies the following with respect to the UCR Project Activity "Large Scale Solar Power Project in Rajasthan" <input checked="" type="checkbox"/> The project aggregator has correctly described the project activity in the Project Concept Note/9/ including the applicability of the approved methodology ACM0002/4/ and meets the methodology applicability conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively. <input checked="" type="checkbox"/> The project activity is likely to generate GHG emission reductions amounting to the estimated 92,776 tCO <sub>2</sub> e, as indicated in the trimmed Emission reduction calculation sheet/17/, monitoring report Ver.1/10/ & Ver.2/15/, which are additional to the reductions that are likely to occur in the absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3.

	<input checked="" type="checkbox"/> The project activity is not likely to cause any net-harm to the environment and/or society  <input checked="" type="checkbox"/> The project activity complies with all the applicable UCR rules and therefore recommends UCR Program register the Project activity with above mentioned labels.
<b>Project Verification Report, reference number and date of approval</b>	<p>Verification Report UCR</p> <p>Reference no.: NSPL/VR/2024/04/UCR/11</p> <p>UCR ID: 356</p> <p>Version: 1.0</p> <p>Date: 14/06/2024</p>
<b>Name of the authorised personnel of UCR Project Verifier and his/her signature with date</b>	 <p>Ms. Divya Prajapati GHG Assessor Naturelink Solutions Pvt. Ltd. Date: 14/06/2024</p>

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# 1. Project Verification Report

## 1.1 Executive Summary

The verification work has been contracted by project aggregator M/s. Creduce Technologies Pvt Ltd and M/s. RSWM Ltd. to perform an independent verification of its UCR project titled **“Large Scale Solar Power Project in Rajasthan” UCR approved project ID:356**, to establish a number of CoUs generated by the project over the crediting period from 01/02/2019 to 31/12/2022 (both days included).

Verification for the period: 01/02/2019 to 31/12/2022

In our opinion, the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report (MR) ver.2/15/, submitted are found to be correct and in line with the UCR guidelines. The GHG emission reductions were calculated on the basis of UCR guideline which draws reference from, the standard baseline, ACM0002: Grid connected electricity generation from renewable sources - Version 21.0/4/. The verification was done remotely by way of video calls, and submission of documents for verification through emails.

It is certified that the emission reductions from the Large Scale Solar Power Project in Rajasthan (UCR ID – 356) for the period 01/02/2019 to 31/12/2022 amounts to **92776 CoUs (92776 tCO<sub>2</sub>e)**.

### Objective

The objective of this verification is to have an independent third-party assessment of whether the project activity conforms to the qualification criteria set out in the UCR Program Manual/1/, UCR CoU Standard/2/ and UCR verification standard/3/ to attain real, measurable, accurate and permanent emission reductions.

### Scope

The scope of the verification is the independent, objective review and ex-post determination of the monitored reductions in GHG emission by the project activity.

1. To verify the project implementation and operation with respect to the registered PCN/9/.
2. To verify the implemented monitoring plan with the registered PCN/9/ applied baseline and monitoring methodology/4/.
3. To verify that the actual monitoring systems and procedures follow the monitoring plan.
4. To evaluate the GHG emission reduction data and express a conclusion whether the reported GHG emission reduction data is free from material misstatement
5. To verify that reported GHG emission data is sufficiently supported by evidence.
6. Agreement stating assurance to avoid double accounting/8/ for the project to be verified, along with required proof.

The project is assessed against the requirements of the UCR Program Manual/1/, UCR CoU Standard/2/ and UCR verification standard/3/, ISO 14064-2.

Due professional care has been exercised and ethical conduct has been followed by the assessment team during the verification process. The verification report is a fair presentation

of the verification activity. The validation of the project is not part of the present assignment and project is deemed validated post-registration by UCR.

## 1.2 Description of the Project

The project activity involves Ground Mounted Multicrystalline Photovoltaic (PV) Plant having installed capacity of ground mounted 8.8 MW at Banswara, ground mounted 6.75 MW & Rooftop PV plant having capacity of 0.092 MW in Bhilwara district. The project activity uses multicrystalline solar photovoltaic technology to generate clean energy. Solar radiation is converted directly into electricity by solar cells (photovoltaic cells).

The project activity aims to harness Solar radiation of sun which is a renewable source, to generate electricity. The net generated electricity from the project activity is consumed by the manufacturing facility of the PP. The promoter of the project activity is 'M/s RSWM Pvt Ltd.' And has the 100% ownership of the project activity.

Project activity is displacing the gross electricity generation i.e., 103085 MWh from the NEWNE grid, which otherwise would have been imported from the NEWNE grid.

The details of the project activity are verified with the PCN/9/, MR Ver.1/10/ & Ver.2/15/ and relevant documents submitted for verification as mentioned in appendix-2.

The technical specification of the 10 MWp plant is listed below;

Parameters	Description
Total number of Photovoltaic Modules	28690 (8340+20350)
Rating of Photovoltaic Module	345 Wp, 350 Wp
Source of module installed of each type	REC
Technology	Multicrystalline
No. of PCU installed	4 (2.2 MVA each)
Invertor make	Schneider Electric India pvt ltd Baroda

The technical specification of the 7.871 MWp plant is listed below;

Parameters	Description
Total number of Photovoltaic Modules	19560 + 3305
Rating of Photovoltaic Module	345 Wp and 340 Wp
Source of module installed of each type	REC
Technology	Multicrystalline
No. of PCU installed	3 (2 MVA each), 14 (12 Nos 66KVA & 2 Nos 25 KVA)
Invertor make	Schneider Electric India pvt ltd Baroda

As mentioned in the monitoring report Ver.2/15/ and emission reduction calculation sheet ver.2/16/ & Trimmed Emission reduction calculation sheet/17/, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be 92776 tCO<sub>2e</sub> for the verification period, there on displacing 103085 MWh amount of electricity from the generation of fossil-fuel based power plants connected to the Indian electricity grid.

The project activity aims to harness Solar radiation of sun which is a renewable source, to generate electricity. The net generated electricity from the project activity is consumed by the manufacturing facility of the PP. The project is a large-scale activity. The methodology applied in the monitoring report is verified against the ACM0002: Grid connected electricity generation from renewable sources - Version 21.0/4/ total emission reductions (ERs) achieved through the project activity during the monitoring period is summarised below:

**Summary of the Project Activity and ERs Generated for the Monitoring Period**

Project start date	<ul style="list-style-type: none"> <li>Ground mounted (Bhilwara) 6.75 MW– 03/01/2019</li> <li>Roof-top (Bhilwara) 0.092 MW– 15/07/2019</li> <li>Ground mounted (Banswara) 8.8 MW – 27/05/2019</li> </ul>
Start date of this Monitoring Period	01/02/2019
Carbon credits claimed up to	31/12/2022
Total ERs generated (tCO <sub>2</sub> e)	92776
Leakage Emission	0
Project Emission	0

**1.3 Project Verification team, technical reviewer and approver:****1.3.1 Project verification team**

Sr. No.	Role	Last name	First name	Affiliation	Involvement in		
					Doc review	Remote inspection	Interviews
1.	Team Leader & Technical Expert	Prajapati	Divya	Naturelink Solutions Pvt. Ltd.	Yes	Yes	Yes

**1.3.2 Technical Reviewer of the Verification report**

Sr. No.	Role	Type of resource	Last name	First name	Affiliation
1.	Internal Technical Reviewer	IR	Mandliya	Shyam	Naturelink Solutions Pvt. Ltd.



## 2 Verification Process

### 2.1 Desk/document review

The desk review was conducted by the verification team that included:

- A review of data and information presented to assess its completeness.
- A review of the initial PCN/9/, MR Ver.1/10/, MR Ver.2/15/, emission reduction calculation sheet ver.2/16/, Methodology – ACM0002: Version 21.0/4/.
- A cross-check between information provided in the MR Ver.1/10/, MR Ver.2/15/ and data from other sources such as certificate of Joint meter readings/12/ or similar data sources;
- A review of calculations and assumptions made in determining the GHG data and emission reductions calculation ver.2/16/;

The list of submitted documents is available in a subsequent section of this verification report under the appendix - 2 “Document reviewed or referenced”.

### 2.2 Remote Inspection

As per the UCR Verification standard version 2.0, the verification team conducted remote inspection of project activity via video conferencing on 03/06/2024 at both the project locations as mentioned in the below table.

Date of remote inspection:		03/06/2024		
No.	Activity performed During remote inspection	Site location	Date	Project Personnel
1.	Opening meeting	Project location (8.8 MW) Mordi, Banswara	03/06/2024	Ms. Natasha Rathore - Senior Consultant, CTPL Mr. Deepak Mehta – Site In-charge, RSWM Ltd. Mr. Rameshchandra Suthar – O & M Team, RSWM Ltd. Mr. Sandeep Porwal – Manger (commercial), RSWM Ltd. Mr. N. K Bahediya – COO, RSWM Ltd. Mr. B. K. Singhal – Engineering Head, RSWM Ltd.

2.	Remote inspection of all installation	Project location (8.8 MW) Mordi, Banswara	03/06/2024	<p>Ms. Natasha Rathore - Senior Consultant, CTPL</p> <p>Mr. Deepak Mehta – Site In-charge, RSWM Ltd.</p> <p>Mr. Rameshchandra Suthar – O &amp; M Team, RSWM Ltd.</p> <p>Mr. Sandeep Porwal – Manger (commercial), RSWM Ltd.</p> <p>Mr. N. K Bahediya – COO, RSWM Ltd.</p> <p>Mr. B. K. Singhal – Engineering Head, RSWM Ltd.</p>
3.	Closing meeting	Project location (8.8 MW) Mordi, Banswara	03/06/2024	<p>Ms. Natasha Rathore - Senior Consultant, CTPL</p> <p>Mr. Deepak Mehta – Site In-charge, RSWM Ltd.</p> <p>Mr. Rameshchandra Suthar – O &amp; M Team, RSWM Ltd.</p> <p>Mr. Sandeep Porwal – Manger (commercial), RSWM Ltd.</p> <p>Mr. N. K Bahediya – COO, RSWM Ltd.</p> <p>Mr. B. K. Singhal – Engineering Head, RSWM Ltd.</p>
4.	Opening meeting	Project location (6.75 MW + 0.092 MW) Gulabpura & Kharigram, Bhilwara	03/06/2024	<p>Ms. Natasha Rathore - Senior Consultant, CTPL</p> <p>Mr. Vikas Pareek – O &amp; M Team, RSWM Ltd.</p>

				<p>Mr. Sandeep Porwal – Manger (commercial), RSWM Ltd.</p> <p>Mr. N. K Bahediya – COO, RSWM Ltd.</p> <p>Mr. B. K. Singhal – Engineering Head, RSWM Ltd.</p>
5.	Remote inspection of all installation	<p>Project location (6.75 MW + 0.092 MW) Gulabpura &amp; Kharigram, Bhilwara</p>	03/06/2024	<p>Ms. Natasha Rathore - Senior Consultant, CTPL</p> <p>Mr. Vikas Pareek – – O &amp; M Team, RSWM Ltd.</p> <p>Mr. Sandeep Porwal – Manger (commercial), RSWM Ltd.</p> <p>Mr. N. K Bahediya – COO, RSWM Ltd.</p> <p>Mr. B. K. Singhal – Engineering Head, RSWM Ltd.</p>
6.	Closing meeting	<p>Project location (6.75 MW + 0.092 MW) Gulabpura &amp; Kharigram, Bhilwara</p>	03/06/2024	<p>Ms. Natasha Rathore - Senior Consultant, CTPL</p> <p>Mr. Vikas Pareek – O &amp; M Team, RSWM Ltd.</p> <p>Mr. Sandeep Porwal – Manger (commercial), RSWM Ltd.</p> <p>Mr. N. K Bahediya – COO, RSWM Ltd.</p> <p>Mr. B. K. Singhal – Engineering Head, RSWM Ltd.</p>

The following parameters were assessed but not limited to:

- An assessment of the implementation and operation of the registered project activity as per the registered PCN/9/;

- A review of information flows for generating, aggregating, and reporting the monitoring parameters;
- Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PCN/9/ and MR ver.1/10/ & ver.2/15/;
- A cross-check of the monitoring equipment including calibration reports and observations of monitoring practices against the requirements of the PCN/9/ and MR ver.1/10/, ver.2/15/ and selected methodology/4/;
- An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

## 2.3 Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Bahadiya	N. K.	COO - RSWM Ltd.	03/06/2024	Legal ownership of the project, Implementation of the project, Start date and crediting period, Double counting of the carbon credits, Project boundary, etc.
2.	Porwal	Sandeep	Manger (commercial) - RSWM Ltd.	03/06/2024	
3.	Singhal	B. K.	Engineering Head – RSWM Ltd.	03/06/2024	Solar power generation and flow & conversion of energy process
4.	Pareek	Vikas	O & M team. – RSWM Ltd. (Bhilwara)	03/06/2024	Solar power plant specification and connections, energy meter readings, transformer specification, solar panel power generation operations details, Monitoring plan, calibration details of the energy meter
5.	Deepak	Mehta	Site-in-charge – RSWM Ltd. (Banswara)	03/06/2024	Solar power generation and flow & conversion of energy process
6.	Suthar	Ramesh chandra	O & M team. – RSWM Ltd. (Bhilwara)	03/06/2024	Solar power plant specification and connections, energy meter readings, transformer specification, solar panel power generation operations details, Monitoring plan, calibration details of the energy meter
7.	Rathore	Natasha	Senior Consultant – Creduce Technologies Pvt. Ltd.	03/06/2024	Project Overview, PCN, Monitoring Report, Methodology, eligibility criteria, Baseline emissions, Emission Reduction Calculation details

## 2.4 Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
<b>Green House Gas (GHG)</b>			
Identification and Eligibility of project type	1	1	NIL
General description of project activity	NIL	2	NIL
Application and selection of methodologies and standardized baselines	--	--	--
<ul style="list-style-type: none"> <li>Application of methodologies and standardized baselines</li> </ul>	NIL	NIL	NIL
<ul style="list-style-type: none"> <li>Deviation from methodology and/or methodological tool</li> </ul>	NIL	NIL	NIL
<ul style="list-style-type: none"> <li>Clarification on applicability of methodology, tool and/or standardized baseline</li> </ul>	NIL	NIL	NIL
<ul style="list-style-type: none"> <li>Project boundary, sources and GHGs</li> </ul>	NIL	1	NIL
<ul style="list-style-type: none"> <li>Baseline scenario</li> </ul>	NIL	NIL	NIL
<ul style="list-style-type: none"> <li>Estimation of emission reductions or net anthropogenic removals</li> </ul>	1	1	NIL
<ul style="list-style-type: none"> <li>Monitoring Report</li> </ul>	1	NIL	NIL
Start date, crediting period and duration	NIL	1	NIL
Environmental impacts	NIL	NIL	NIL
Project Owner- Identification and communication	NIL	NIL	NIL
Others (please specify)	1	NIL	NIL
<b>Total</b>	<b>4</b>	<b>6</b>	<b>NIL</b>

### 3 Project Verification findings

#### 3.1 Identification and eligibility of project type

<b>Means of Project Verification</b>	<p>The project is eligible as per UCR General project eligibility criteria and guidance Version 6.0/2/ which is acceptable since the project has not been registered under any other GHG program. The project activity was commissioned on 03/01/2019(6.75 MW), 15/07/2019(0.092 MW) &amp; 27/05/2019(8.8 MW). The commissioning certificates/13/ of the ground-mounted and roof-top power plant at Bhilwara and Banswara provided by RRECL has been verified in this regard.</p> <p>Prior to the commencement of the project activity, the project owner got approval for the installation and operation of Solar power plant from RRECL in the district of Banswara and Bhilwara, Rajasthan and PO has signed Synchronization Certificate/13/ with RRECL &amp; AVVNL for the use of electricity as an identified user M/s. RSWM Ltd. &amp; grid connection of the solar power project.</p> <p>The project also delivers real, measurable and additional emission reduction of 92776 tCO<sub>2</sub>e over the crediting period (01/02/2019 to 31/12/2022).</p> <p>Project applies an approved CDM monitoring and baseline methodology ACM0002: Grid connected electricity generation from renewable sources - Version 21.0./4/</p>
<b>Findings</b>	CL 01 & CAR 01 was raised.
<b>Conclusion</b>	<p>The project is eligible as per the requirements of the UCR General project eligibility criteria and guidance Version 6.0/2/.</p> <p>Further project verification team cross checked the other GHG programmes like Clean Development Mechanism (CDM) Registry, VERRA Registry, Gold Standard (GS) Registry for the information regarding the consistency of the title of the project activity, GPS coordinates, Legal Ownership of the Project activity and confirmed that the project was not submitted or registered under any other GHG programmes and non-voluntary non-GHG Programs.</p>

#### 3.2 General description of project activity

<b>Means of Project Verification</b>	<p>The project activity aims to harness Solar radiation of sun which is a renewable source, to generate electricity. The net generated electricity from the project activity is consumed by the manufacturing facility of the PP. The promoter of the project activity is 'M/s RSWM Pvt Ltd.'</p> <p>The proposed project activity is installation and operation of large-Scale Solar Power Project comprising of 1 roof-top (0.092 MW) &amp; 2 ground-mounted (8.8 MW &amp; 6.75 MW) solar power plants to</p>
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	<p>generate clean electricity of 103085 MWh which would have been imported from the grid in absence of the project activity.</p> <p>The project activity has applied ACM0002: Grid connected electricity generation from renewable sources – Version 21.0/4/ falls into the large-scale category as per applied CDM methodology.</p> <p>A synchronising agreements/13/ is signed between M/s. RSWM Ltd. and RRECL to connect the project activity to the grid and captive consumption of the electricity generation. The project activity generated total 103085 MWh electricity and displacing 92776 tCO<sub>2</sub>e.</p> <p>The project activity is using clean renewable solar energy to produce electricity. The applied technology is considered to be one of the most environmentally friendly technologies available as the operation of the Solar photovoltaic does not emit any GHGs or any other harmful gases, unlike the operation of conventional power plants.</p> <p>In the absence of the project activity, the equivalent amount of power would have been generated by the operation of grid-connected fossil fuel-based power plants and by the addition of new fossil fuel-based generation sources into the grid.</p> <p>The Location details has been verified during the online assessment and geo coordinates verified through google earth/maps.</p> <p>The technical specification mentioned in the PCN/9/ is verified against the technical specifications provided in commissioning certificates/13/.</p>
<b>Findings</b>	CAR 02 & CAR 03 was raised
<b>Conclusion</b>	The description of the project activity is verified to be true based on the review of PCN/9/, MR ver.2/15/, Commissioning Certificate and synchronization certificate/13/ of Solar power plant components.

### 3.3 Application and selection of methodologies and standardized baselines

#### 3.3.1 Application of methodology and standardized baselines

<b>Means of Project Verification</b>	<p>The project activity applied ACM0002: Grid connected electricity generation from renewable sources – Version 21.0/4/ falls into the large-scale category as per CDM methodology.</p> <p>Standardized baseline is “In the absence of the project activity, the equivalent amount of electricity would have been imported from the grid (which is connected to the unified Indian Grid system (NEWNE Grid)), which is carbon intensive due to being predominantly sourced from fossil fuel-based power plants” which is as per the project</p>
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	activity and clearly mentioned in PCN/9/ and MR Ver.1/10/ & Ver.2/15/.
<b>Findings</b>	No finding was raised
<b>Conclusion</b>	The methodology applied is appropriately meeting the requirements of UCR General project eligibility criteria and guidance/2/, standardized baseline. The methodology version is correct and valid. The referenced methodology is applicable to project activity.

### 3.3.2 Clarification on applicability of methodology, tool, and/or standardized baseline

Means of Project Verification	Applicability as per ACM0002 Version 21.0	Verifier assessment
	<p>1. This methodology is applicable to grid-connected renewable energy power generation project activities that:</p> <ul style="list-style-type: none"> <li>a) Install a greenfield plant</li> <li>b) Involve a capacity addition to (an) existing plant(s)</li> <li>c) Involve a retrofit of (an) existing operating plant(s)/units</li> <li>d) Involve a rehabilitation of (an) existing plant(s)/unit(s)</li> <li>e) Involve a replacement of (an) existing plant(s)/unit.</li> </ul>	<p>The project activity “Large Scale Solar Power Project in Rajasthan” is a green-field solar power project by M/s. RSWM Ltd. Hence, option a) Install a greenfield plant will be applicable here.</p> <p>This was confirmed during the online assessment and through document review of commissioning certificates &amp; synchronization certificates/13/.</p>
	<p>2. In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that –</p> <ul style="list-style-type: none"> <li>a) Integrate BESS with a Greenfield power plant</li> <li>b) Integrate a BESS together with implementing a capacity addition to an existing solar photovoltaic or wind power plant(s)/unit(s)</li> <li>c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s)</li> <li>d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s).</li> </ul>	<p>The project is green field plant and involves installation and generation of electricity from total 15.642 MW capacity of solar plant connected to the grid. The net generated electricity from the project activity is consumed by the manufacturing facility of the PP.</p> <p>The project activity generates 103085 MWh of electricity and displaces 92776 tCO<sub>2</sub>e.</p>



	<p>3. The methodology is applicable under the following conditions:</p> <p>a) Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit.</p> <p>b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity.</p> <p>c) In case of Greenfield project activities applicable under paragraph 2 (a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility studies or investment decision documents).</p> <p>d) The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g. week(s), months(s)) when the BESS consumes more than 2 per cent of the electricity for charging, the project</p>	<p>The project activity is large scale solar power generation having capacity of 15.642 MW.</p>
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	participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period.	
	<p>4. In case of hydro power plants, one of the following conditions shall apply:</p> <p>a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs</p> <p>b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, is greater than 4 W/m<sup>2</sup></p> <p>c) The project activity results in new single or multiple reservoirs and the power density, is greater than 4 W/m<sup>2</sup></p> <p>d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs is lower than or equal to 4 W/m<sup>2</sup>, all of the following conditions shall apply:</p> <ul style="list-style-type: none"> <li>• The power density calculated using the total installed capacity of the integrated project, is greater than 4 W/m<sup>2</sup></li> <li>• Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity;</li> <li>• Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m<sup>2</sup> shall be: <ul style="list-style-type: none"> <li>a) Lower than or equal to 15 MW</li> <li>b) Less than 10 per cent of the total installed capacity of integrated hydro power project.</li> </ul> </li> </ul>	<p>The project activity is 15.642 MW capacity solar power plant and during online assessment and desk review of the documents, it was concluded that the project activity is not involved in any hydro power activities.</p>
	<p>5. In the case of integrated hydro power projects, project participants shall:</p> <p>a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or</p> <p>b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the</p>	<p>The project activity is 15.642 MW capacity solar power plant and it does not involve hydro power activities.</p>

	<p>construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for implementation of the CDM project activity.</p>	
	<p>6. The methodology is not applicable to –  a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;  b) Biomass fired power plants/units.</p>	<p>The project activity is 15.642 MW capacity solar power plant and it does not involve use of any biomass. Hence, this criterion is not applicable to project activity.</p>
	<p>7. In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is “the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance.</p>	<p>The project activity is a new installation. There is no retrofit, rehabilitations or replacement in the project activity, hence it is not applicable.</p>
<b>Findings</b>	No findings was raised	
<b>Conclusion</b>	<p>The verification team confirms that all the applicability criteria set by the applied CDM methodology/4/ and its eligible tools are met. The relevant information against those criteria is also included in the PCN/9/ and MR Ver.2/15/. The selected CDM methodology for the project activity is applicable.</p>	

### 3.3.3 Project boundary, sources and GHGs

<b>Means of Project Verification</b>	As per the applied methodology ACM0002 version 21.0/4/, the spatial extent of the project boundary includes industrial, commercial facilities consuming energy generated by the system. The
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	<p>components of the project boundary mentioned in the section B.4 of PCN/9/ were verified against the para 22 of the applied methodology.</p> <p>The project verification team conducted desk review of the implemented project to confirm the appropriateness of the project boundary identified and GHG sources required by the methodology have been included within the project boundary.</p> <p>The project location is clearly depicted with the help of a pictorial depiction in section A.3. of the PCN/9/ and duly verified by the project verification team via geographical coordinates, commissioning certificates/13/ of the project activity.</p>
<b>Findings</b>	CAR 04 was raised
<b>Conclusion</b>	<p>The project verification team was able to assess that complete information regarding the project boundary has been provided in PCN/9/ and MR Ver.2/15/ and could be assured from commissioning certificates/13/ and geographical coordinates.</p> <p>The project verification team confirms that the identified boundary is relevant and all emissions sources are included in the project activity.</p>

### 3.3.4 Baseline scenario

<b>Means of Project Verification</b>	<p>The baseline scenario as per paragraph 24 of the applied methodology, prescribed the baseline scenario of the project activity. In the absence of the project activity, the users would have been supplied electricity from the national grid.</p> <p>The baseline scenario is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants.</p> <p>As per the UCR General project eligibility criteria and guidance/2/; “The project owner has opted UCR recommended emission factor of 0.9 tCO<sub>2</sub>/MWh for the 2013-2020 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Emission factors for the post 2020 period is to be selected as the most conservative estimate between the national electricity/power authority published data set and UCR default of 0.9 tCO<sub>2</sub>/MWh”.</p>
<b>Findings</b>	No finding was raised
<b>Conclusion</b>	<p>The project verification team concluded that the identified baseline scenario reasonably represents what would occur in the absence of the project activity.</p> <p>The calculated baseline emission for each vintage year of crediting period is rounded down as per UCR CoU verification standard /3/.</p>

### 3.3.5 Estimation of emission reductions or net anthropogenic removal

Means of Project Verification	<p>The project verification team checked whether the equations and parameters used to calculate GHG emission reductions or net anthropogenic GHG removals for PCN/9/ and MR Ver.1/10/ &amp; Ver.2/15/ is in accordance with applied methodology. Project verification team checked section B.5 and C.5.1 of the PCN/9/ &amp; MR Ver.2/15/ respectively to confirm whether all formulae to calculate baseline emissions, project emission and leakage have been applied in line with the underlying methodology.</p> <p>The emission reduction calculation has been carried out as per the CDM methodology ACM0002, Version 21.0/4/.</p> <p><math>BE_y = EG_{BLy} \times EF_{CO_2,y}</math></p> <p>Where,</p> <p><math>BE_y</math> = Baseline Emissions in year y; tCO<sub>2</sub></p> <p><math>EG_{BLy}</math>= Quantity of net electricity displaced as a result of the implementation of the CDM project activity in year y (MWh)</p> <p><math>EF_{CO_2,y}</math> = Combined margin CO<sub>2</sub> emission factor for grid connected power generation in year y.</p> <p>Project emissions:</p> <p>As per paragraph 35 of the applied methodology, For most renewable energy project activities, <math>PE_y = 0</math>. Since solar power is a GHG emission free source of energy project emission considered as Zero for the project activity.</p> <p>Leakage Emissions:</p> <p>As per the paragraph 61 of the applied methodology ACM0002 Version 21.0, there are no emissions related to leakage in this project.</p> <p>Emission reductions:</p> <p>As per Paragraph 62 of the applied methodology, emission reductions are calculated as follows</p> <p><math>ER_y = BE_y - PE_y - LE_y</math></p> <p>Where:</p> <p><math>ER_y</math> = Emission reductions in year y (tCO<sub>2</sub>)</p> <p><math>BE_y</math> = Baseline Emissions in year y (t CO<sub>2</sub>)</p> <p><math>PE_y</math> = Project emissions in year y (t CO<sub>2</sub>)</p> <p><math>LE_y</math> = Leakage emissions in year y (t CO<sub>2</sub>)</p>																
	<table><tr><th>Year</th><th>Electricity generated (MWh)</th><th>Emission factor (tCO<sub>2</sub>/MWh)</th><th>Total Emission reduction (tCO<sub>2</sub>e)</th></tr><tr><td>2019</td><td>19818.002</td><td>0.9</td><td>17836</td></tr><tr><td>2020</td><td>25306.735</td><td>0.9</td><td>22776</td></tr><tr><td>2021</td><td>28650.550</td><td>0.9</td><td>25785</td></tr></table>	Year	Electricity generated (MWh)	Emission factor (tCO <sub>2</sub> /MWh)	Total Emission reduction (tCO <sub>2</sub> e)	2019	19818.002	0.9	17836	2020	25306.735	0.9	22776	2021	28650.550	0.9	25785
	Year	Electricity generated (MWh)	Emission factor (tCO <sub>2</sub> /MWh)	Total Emission reduction (tCO <sub>2</sub> e)													
	2019	19818.002	0.9	17836													
	2020	25306.735	0.9	22776													
	2021	28650.550	0.9	25785													

	2022	29310.374	0.9	26379
	Total Emission Reduction (2019 to 2022)			92776
<b>Findings</b>	CL 02 & CAR 05 was raised			
<b>Conclusion</b>	<p>The combined margin emission factor as per “CO<sub>2</sub> Baseline Database for the Indian Power Sector” current version 18, December 2022 by CEA/6/ is 0.918 tCO<sub>2</sub>/MWh which results into higher emission factor than the UCR recommended emission factor of 0.9 tCO<sub>2</sub>/MWh; Hence for 2022 vintage UCR default emission factor remains conservative as per UCR General project eligibility criteria and guidance/2/.</p> <p>Project Verification team confirm that the algorithms and formulae proposed to calculate project emissions, baseline emissions, leakage and emission reductions in the PCN/9/ and MR Ver.2/15/ is in line with the requirements of the selected methodology ACM0002, version 21.0/4/</p> <p>For emission reduction calculation, the assessment team confirms that;</p> <p>All assumptions and data used by the project participants are listed in the PCN/9/ and MR Ver.2/15/ including their references and sources.</p> <p>All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PCN/9/ and MR Ver.1/10/ &amp; Ver.2/15/.</p> <p>The baseline methodology and the applicable tool(s) have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions.</p>			

### 3.3.6 Monitoring Report

<b>Means of Project Verification</b>	<p>The monitoring report Ver.1/10/ &amp; Ver.2/15/ submitted by the PP has been verified thoroughly and is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/3/ for calculation of GHG emission reductions.</p> <p>The assessment team has reviewed all the parameters in the monitoring plan against the requirements of the applied methodology and confirmed that monitoring parameters are applied in line with the requirement of the methodology and relevant in the context of the program. The procedures have been reviewed by the assessment team through document review, interviews with the respective monitoring personnel and online assessment.</p> <p>As per the CEA guidelines/5/ for installation and operation of Meters, the energy meter shall be tested at least once in five years.</p>
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	Monitoring methodology, data management and calibration of the energy meter were also discussed with project owner.
<b>Findings</b>	CL 03 was raised
<b>Conclusion</b>	<p>The project verification team confirms that,</p> <p>The monitoring report Ver.2/15/ is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/3/.</p> <p>The monitoring parameters reported in PCN/9/ and MR Ver.2/15/ adequately represents the parameters relevant to emission reduction calculation.</p> <p>The number of CoUs generation is calculated based on accurately reported data. The calculation was done using an excel sheet where all the parameters were reported.</p> <p>UCR recommended emission factor for electricity generation is opted which is conservative.</p> <p>In the MR Ver.2/15/, emission reduction calculations sheet Ver.2/16/ are correctly calculated and reported. The emission reduction sheet/17/ to trim emission reductions as calibration reports of the energy meters are not available with the client. The monitoring report Ver.2/15/ meets the requirements of UCR project verification requirements.</p>

### 3.4 Start date, crediting period and duration

<b>Means of Project Verification</b>	The Commissioning certificates/13/ of the installation of the project activity has been verified as per PCN/9/ and MR Ver.1/10/ & Ver.2/15/.
<b>Findings</b>	CAR 06 was raised
<b>Conclusion</b>	The Solar power plant was commissioned on 03/01/2019(6.75 MW), 15/07/2019(0.092 MW) & 27/05/2019(8.8 MW) by PP. The project crediting period is first monitoring period which is 01/02/2019 to 31/12/2022. The crediting period is also appropriate as per UCR General project eligibility criteria and guidance/2/.

### 3.5 Environmental impacts and safeguard assessment

<b>Means of Project Verification</b>	<p>The guidelines on Environmental Impact Assessment have been published by Ministry of Environment, Forests and Climate Change (MoEF&amp;CC), Government of India (GOI) under Environmental Impact Assessment (EIA) notification 14/09/2006.</p> <p>Further amendments to the notification have been implemented, The Solar Power projects up to 25 MW are listed in white category. Hence, no EIA required.</p>
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	<p>The impact of the project activity on the environmental safeguards has been carried out.</p> <p>Out of all the safeguards no risks were identified to the environment due to the project implementation and operation.</p> <p>And the following have been indicated as positive impacts:</p> <p><b>Environment Air - CO<sub>2</sub> emissions:</b> The project activity being renewable power generation avoids CO<sub>2</sub> emissions that would have occurred in baseline scenario due to the electricity generation in thermal power plants.</p> <p><b>Environment - Natural Resources:</b> Replacing fossil fuels with renewable sources of energy.</p> <p>Impacts identified as '<b>Harmless</b>':</p> <p><b>Solid waste Pollution:</b> - Any Solid-waste if generated from the plant shall be discarded in accordance with host country regulation. The parameter is being monitored as 'Project Waste' and Proper mitigation action has been implemented for waste management.</p> <p><b>Land use:</b> since the solar power plant implemented is roof-top and is ground-mounted on PO's land, there is no significant damage to land.</p> <p><b>Emission due to transportation of solar power plant components:</b> The emissions associated with the transport of the modules are insignificant compare to manufacturing facilities.</p>
<b>Findings</b>	No finding was raised.
<b>Conclusion</b>	The project activity displaces fossil fuel consumption and provides affordable and clean energy. The project has also avoided total 92776 tCO <sub>2</sub> e, hence it has positive impact. It is confirmed that there is no EIA is required as per host country rule mentioned in the CPCB letter/14/.

### 3.6 Project Owner- Identification and communication

<b>Means of Project Verification</b>	<p>The information and contact details of the project owner has been appropriately incorporated in the PCN/9/ and MR Ver.1/10/ &amp; Ver.2/15/.</p> <p>The legal owner of the project activity has been identified through the commissioning certificates/13/ of the solar power project.</p>
<b>Findings</b>	No finding was raised.
<b>Conclusion</b>	The project verification team confirms that the legal ownership of the project belongs to M/s. RSWM Ltd.

### 3.7 Others (Double Counting of Credits)



<b>Means of Project Verification</b>	The project activity was searched on other GHG programs to ensure that project is not registered in any other GHG programs like VERRA, Gold standard, GCC. An agreement stating that project activity will not cause double counting of the credits is also checked as per clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022/1/.
<b>Findings</b>	CL 04 was raised
<b>Conclusion</b>	Double accounting agreement/8/ is signed between PO and Aggregator and found to appropriate as per clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022/1/.

## 4 Internal quality control:

- Due professional care has been taken while reviewing the submitted document.
- There is no conflict of interest as the verifier has no other engagement with either the aggregator or project owner directly or indirectly.
- Verification team consists of experienced personnel.
- Technical review is performed by an independent person.

## 5 Project Verification opinion:

The project verification was conducted on the basis of UCR Program Manual/1/, UCR General project eligibility criteria and guidance/2/, UCR Verification standard /3/, ACM0002 Version 21.0/4/, Project Concept Note (PCN)/9/, Commissioning Certificates/13/, Monitoring Report (MR) ver.2/15/, Emission Reduction calculation sheet ver.2/16/ and other documents mentioned in Appendix-2.

Verification team raised 04 Nos. of Clarification Requests (CLs) and 06 Nos. of Corrective Action Request. All the queries were closed satisfactorily.

It is hence certified with reasonable level of assurance that the emission reductions from the project “Large Scale Solar Power Project in Rajasthan” (UCR ID – 356) for the period 01/02/2019 to 31/12/2022 amounts to **92776** CoUs (92776 tCO<sub>2</sub>e) as per the UCR Verification standard /3/.

## 6 Competence of team members and technical reviewers

No.	Last name	First name	Role and Affiliation	Technical Competence
1.	Prajapati	Divya	Team Leader & Technical Expert - NSPL	Ms. Divya Prajapati is having M. Tech. in Environmental Engineering. She is experienced in performing environmental impact assessments of various industries. She has also conducted Environmental Audit of CETP and TSDF sites and quantified GHG emissions from Solid Waste Disposal sites.
2.	Mandliya	Shyam	Technical Reviewer - NSPL	Mr. Shyam Mandliya holds master's degree in Chemical Engineering. He has expertise in environmental audits. He has performed environmental monitoring of different industries in Gujarat for air, water, and hazardous waste. He has also contributed to the community-based biogas project development.

## Appendix 1: Abbreviations

Abbreviations	Full texts
AAVNL	Ajmer Vidhyut Vitran Nigam Ltd.
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CL	Clarification Request
COD	Commercial Operation Date
CoUs	Carbon offset Units
CPCB	Central Pollution Control Board
DAA	Avoidance of Double Accounting Agreement
ER	Emission Reduction
FAR	Forward Action Request
GHG	Green House Gas
JMR	Joint Monitoring Report
kW	Kilo-Watt
kWh	Kilo-Watt Hour
MR	Monitoring report
MW	Mega-Watt
MWh	Mega-Watt Hour
NSPL	Naturelink Solutions Private Limited
PA/ PP	Project Aggregator / Project Proponent
PCN	Project Concept Note
PO	Project Owner
PPA	Power Purchase Agreement
RRECL	Rajasthan Renewable Energy Corporation Limited
SDG	Sustainable Development Goal
tCO <sub>2</sub> e	Tons of Carbon Dioxide Equivalent
TL	Team Leader
UCR	Universal Carbon Registry
VR	Verification Report
VS	Verification Statement

## Appendix 2: Document reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	UCR	UCR Program Manual	Version 4.0, August 2022	UCR website
2.	UCR	UCR General project eligibility criteria and guidance (CoU Standard)	Version 6.0, August 2022	UCR website
3.	UCR	UCR Program Verification standard	Version 2.0, August 2022	UCR website
4.	CDM	ACM0002: Grid connected electricity generation from renewable sources	Version 21.0	CDM website
5.	CEA	Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2019	Dated 23/12/2019	-
6.	CEA	CO <sub>2</sub> baseline database for the Indian Power sector	Version 18.0 dated December 2022	-
7.	PA	Communication agreement between PP and PO	Dated 09/02/2022	PA
8.	Creduce	Assurance to avoid double accounting by project owners	Double accounting agreement signed on 04/06/2024	PA
9.	Creduce	Project concept note	Version 1.0, dated 05/09/2023	PA
10.	Creduce	Monitoring report	Version 1.0, dated 20/04/2024	PA
11.	Creduce	Emission reduction excel – “Large Scale Solar Power Project in Rajasthan”	Version 1.0, dated 20/04/2024	PA
12.	FOURTH PARTNER ENERGY	Joint Meter Readings	-	PO
13.	RRECL	Certificates of Commissioning	Dated 03/01/2019 (6.75 MW), 27/05/2019 (8.80 MW) & 15/07/2019 (0.092 MW)	PA
14.	CPCB	Clarification in the matter of Revised Categorization of the Industrial Sector namely "Solar	CPCB letter F.No.B-29012/IPC-VI/2017-18/ date 17/11/2017	-

		power generation through solar photovoltaic cell, wind power and mini hydel power (less than 25 MW)"		
15.	Creduce	Monitoring report	Version 2.0 dated 10/05/2024	PA
16.	Creduce	Emission reduction excel – “Large Scale Solar Power Project in Rajasthan”	Version 2.0 dated 10/05/2024	PA
17.	Naturelink Solutions Pvt. Ltd.	Trimmed Emission reduction calculation sheet – “Large Scale Solar Power Project in Rajasthan”	Dated 05/06/2024	NSPL

## Appendix 3: Clarification request, corrective action request and forward action request

**Table 1. CLs from this Project Verification**

<b>CL ID</b>	01	<b>Section no.:</b> 3.1	Identification and eligibility of project type	<b>Date:</b> 09/05/2024
<b>Description of CL</b>				
<i>In PCN Version 1.0 dated 05/09/2023 title page and MR Version 1.0 dated 20/04/2024 title page, start date of monitoring period is not consistent as per requirement of UCR CoU standard Ver.6 (page no. 7).</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>The start date of monitoring period is revised as 01/02/2019 and revised Monitoring Report (MR) version 2.0 is provided.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Monitoring Report Version 2.0 dated 10/05/2024</i>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024
The revised Monitoring Report version 2.0 was verified and correction of the start date of the monitoring period has been verified and is found satisfactory. Hence, CL 01 is closed.				

<b>CL ID</b>	02	<b>Section no.:</b> 3.3.5	Estimation of emission reductions or net anthropogenic removal	<b>Date:</b> 09/05/2024
<b>Description of CL</b>				
<i>Kindly clarify that the serial number of the energy meter mentioned in the JMRs of 8.8 MW plant for the Energy generation details is not matching with the energy meter photos and calibration certificate provided as per requirement of UCR CoU standard Ver.6 (page no. 8 to 10) &amp; section 6.1 of the ACM0002 Ver.21.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>The energy meter with serial number RJB92628 has been installed for the recording of the energy generation from the solar power plant &amp; Energy meter with serial number RJB93346 &amp; RJB93347 are installed for the recording of the energy used for captive purpose.</i>				
<b>Documentation provided by Project Owner</b>				
-				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024

During the remote inspection of the site and interviews with the individuals, it was verified that the energy meter with serial number RJB92628 is recording the energy generation from the solar plant. The clarification provided by project owner is adequate. Hence, CL 02 is closed.

<b>CL ID</b>	03	<b>Section no.:</b> 3.3.6	Monitoring Report	<b>Date:</b> 09/05/2024
<b>Description of CL</b>				
<i>In the section C.10 of MR Version 1.0 dated 20/04/2024 details of calibration &amp; calibration certificate of 6.75 MW &amp; 0.092 MW plant are missing as per the requirements of the UCR CoU standard Ver.6 (page no. 8 to 10).</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>The calibration of the Energy meters has not been conducted.</i>				
<b>Documentation provided by Project Owner</b>				
-				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024
As per the CEA, the calibration of the energy meter shall be carried out in every five-year time period. Keeping that in front, the total emission reductions are trimmed as per the IS 14697:1999 and trimmed emission reduction calculation sheet is prepared. Hence, CL 03 is closed.				

<b>CL ID</b>	04	<b>Section no.:</b> 3.7	Others (Double counting of credits)	<b>Date:</b> 09/05/2024
<b>Description of CL</b>				
<i>Document stating that the project activity will not cause double counting is not available as per requirement of clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>Double accounting agreement is provided.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Double accounting agreement dated 04/06/2024</i>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024
Double accounting agreement is checked and found to be conforming as per clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022. Hence, CL 04 is closed.				

**Table 2. CARs from this Project Verification**

CAR ID	01	Section no.: 3.1	Identification and eligibility of project type	Date: 09/05/2024
<b>Description of CAR</b>				
<i>The crediting period is not correctly mentioned in the basic information section of the MR Version 1.0 dated 20/04/2024 and in the ER sheet as per requirement of the UCR CoU standard Ver.6 (page no. 8 to 10).</i>				
<b>Project Owner's response</b>				Date: 04/06/2024
<i>The crediting period is corrected as 01/02/2019 to 31/12/2022 and monitoring report version 2.0 and emission reduction sheet version 2.0 is provided.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Monitoring Report Ver.2 dated 10/05/2024 &amp; Emission Reduction sheet Ver.2 dated 10/05/2024</i>				
<b>UCR Project Verifier assessment</b>				Date: 06/06/2024
<i>The corrected monitoring report version 2.0 and emission reduction sheet version 2.0 is verified and corrected crediting period as 01/02/2019 to 31/12/2022 has been verified. Hence, CAR 01 is closed.</i>				

CAR ID	02	Section no.: 3.2	General description of project activity	Date: 09/05/2024
<b>Description of CAR</b>				
<i>In the section A.1.2 of the MR Version 1.0 dated 20/04/2024, total capacity of the plant is not defined appropriately as per requirement of the UCR CoU standard Ver.6 (page no. 8 to 10).</i>				
<b>Project Owner's response</b>				Date: 04/06/2024
<i>The total capacity of the solar power plant as ground mounted solar power plant of capacity 8.8 MW at Banswara &amp; capacity 6.75 MW with roof-mounted having capacity 0.092 MW at Bhilwara has been corrected and revised Monitoring report Version 2.0 is provided.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Monitoring Report Ver.2 dated 10/05/2024</i>				
<b>UCR Project Verifier assessment</b>				Date: 06/06/2024
<i>The Monitoring report version 2.0 has been verified and the total capacity of the solar power plant is defined correct in it. Hence, CAR 02 is closed.</i>				



<b>CAR ID</b>	03	<b>Section no.:</b> 3.2	General description of project activity	<b>Date:</b> 09/05/2024
<b>Description of CAR</b>				
<i>In the section A.1.3 of MR Version 1.0 dated 20/04/2024, date of commissioning of the project is not matching as per commissioning certificate provided for 8.80 MW plant as per requirement of the UCR CoU standard Ver.6 (page no. 8 to 10).</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>The commissioning date of the 8.8 MW solar power plant at banswara is corrected as 27/05/2019 and Monitoring report version 2.0 has been provided.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Monitoring Report Ver.2 dated 10/05/2024</i>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024
The Monitoring report version 2.0 has been verified and the commission date of the 8.8 MW solar power plant at banswara has been checked and found correct. Hence, CAR 0.3 is closed.				

<b>CAR ID</b>	04	<b>Section no.:</b> 3.3.3	Project boundary, sources and GHGs	<b>Date:</b> 09/05/2024
<b>Description of CAR</b>				
<i>In the section A.2 MR Version 1.0 dated 20/04/2024, the locations of the project activity is not described correctly as per the requirement of the UCR CoU standard Ver.6 (page no. 5 to 6).</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>The location of the solar power plant having capacity of 6.75 MW ground mounted and 0.092 MW roof-top has been corrected as Gulabpura and Kharigram. The revised monitoring report version 2.0 is provided.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Monitoring Report Ver.2 dated 10/05/2024</i>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024
The revised monitoring report version 2.0 has been verified and the location of the solar power plant is found correct. Hence, CAR 04 is closed.				

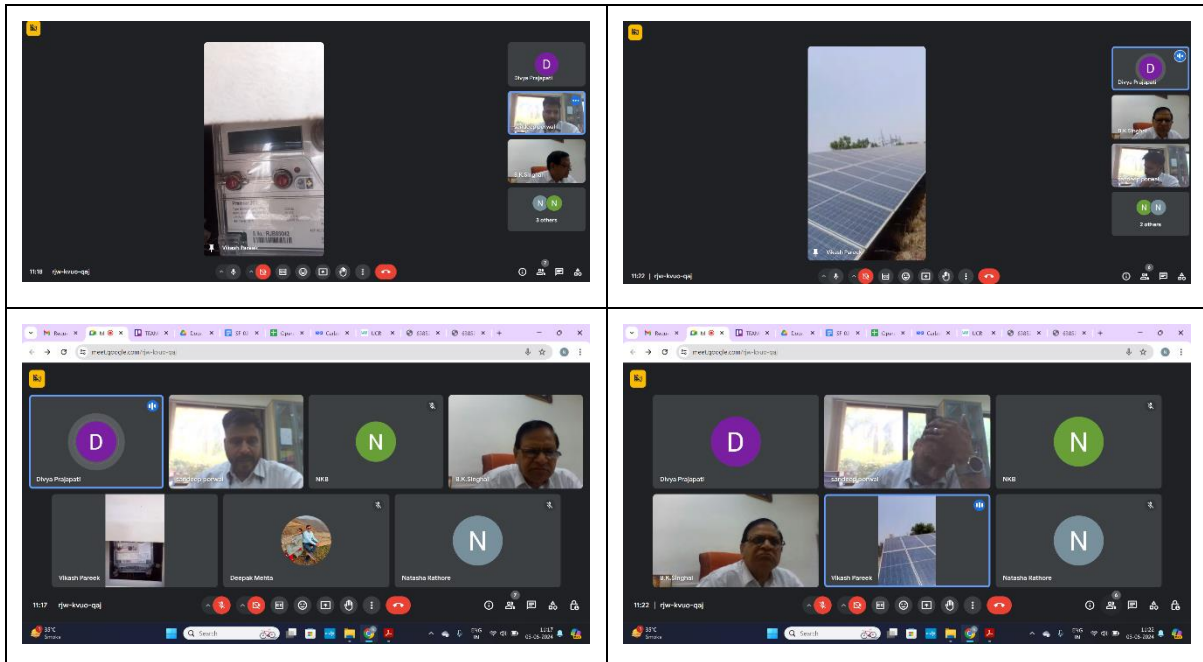
<b>CAR ID</b>	05	<b>Section no.:</b> 3.3.5	Estimation of emission reductions or net anthropogenic removal	<b>Date:</b> 09/05/2024
<b>Description of CAR</b>				
<i>In the section C.5.1 of MR Version 1.0 dated 20/04/2024, description of baseline emission, project emission and leakage emission are not as per the applied methodology ACM0002 Ver.21.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>The description of the baseline emissions, leakage emissions and project emissions has been revised as per the applied methodology ACM0002 Ver.21.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Monitoring Report Ver.2 dated 10/05/2024</i>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024
The revised monitoring report version 2.0 has been verified and the description of the baseline emission, leakage emission and project emission has been checked and found correct as per the applied methodology ACM0002 Ver.21. Hence, CAR05 is closed.				

<b>CAR ID</b>	06	<b>Section no.:</b> 3.4	Start date, crediting period and duration	<b>Date:</b> 09/05/2024
<b>Description of CAR</b>				
<i>In title page and section C.9 of MR Version 1.0 dated 20/04/2024, issuance/monitoring period is not defined correctly as per requirement of the UCR CoU standard Ver.6 (page no. 8 to 10).</i>				
<b>Project Owner's response</b>				<b>Date:</b> 04/06/2024
<i>The issuance/monitoring period has been corrected as 01/02/2019 to 31/12/2022 in the revised monitoring report version 2.0.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Monitoring Report Ver.2 dated 10/05/2024</i>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> 06/06/2024
The revised monitoring report version 2.0 has been verified and issuance/monitoring period has been checked and found correct. Hence, CAR 06 is closed.				

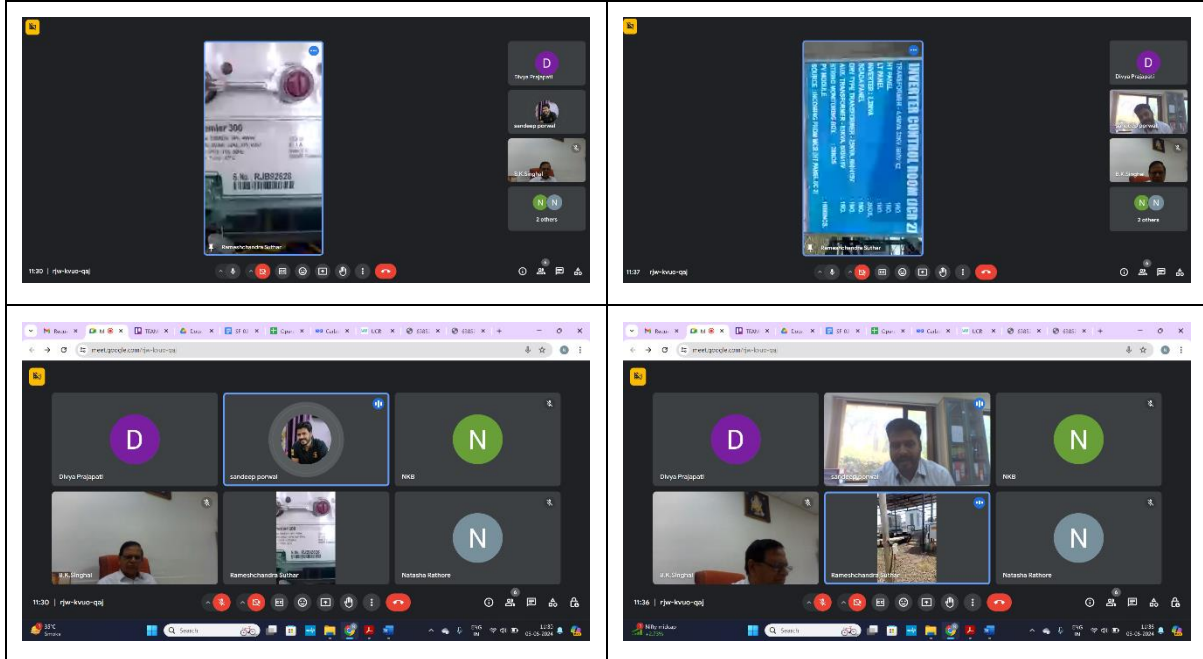
**Table 3. FARs from this Project Verification**

<b>FAR ID</b>	<b>--</b>	<b>Section no.</b>		<b>Date:</b>
<b>Description of FAR</b>				
<b>Project Owner's response</b>				<b>Date:</b>
<b>Documentation provided by Project Owner</b>				

## Photographs of the Remote site visit conducted on 10/04/2024



### Bhilwara (6.75 MW + 0.092 MW)



### Banswara (8.8 MW)