



Verification Report

UCR ID: 489

Prepared by



Naturelink Solutions Pvt. Ltd.

Title	3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd.
Project Owner	M/s Lagnam Spintex Ltd.
Project Location	Village: Swaroopganj, Tehsil: Hamirgarh, District: Bhilwara, State: Rajasthan, India Geographic co-ordinates of the project locations are given below: Latitude : 25°14'02.4"N Longitude : 74°37'59.1"E
Date	14/07/2025

COVER PAGE

Project Verification Report Form (VR)

BASIC INFORMATION

Name of approved UCR Project Verifier / Reference No.	Naturelink Solutions Pvt. Ltd
Type of Accreditation	<input type="checkbox"/> CDM Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> UCR Approved Verifier
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	Sectoral Scope: 01 Energy Industries
Validity of UCR approval of Verifier	May - 2022 onwards
Completion date of this VR	14/07/2025
Title of the project activity	3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd.
Project reference no. (as provided by UCR Program)	489
Name of Entity requesting verification service	Creduce Technologies Private Limited (Creduce) (Aggregator) M/s Lagnam Spintex Ltd. (Project Owner)
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	Mr. Shailendra Singh Rao (Creduce) shailendra@creduce.tech
Country where project is located	India
Applied methodologies	AMS-I. D: "Grid connected renewable electricity generation", version 18
Sectoral Scope(s):	01 Energy industries (Renewable/Non-Renewable Sources)
Project Verification Criteria: Mandatory requirements to be assessed	<input checked="" type="checkbox"/> UCR Verification Standard <input checked="" type="checkbox"/> Applicable Approved Methodology <input checked="" 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)
Project Verification Criteria: 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
Project Verifier's Confirmation: The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:	<p>The UCR-approved verifier Naturelink Solutions Pvt. Ltd., verifies the following with respect to the UCR Project Activity "3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd."</p> <p><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 AMS-I. D/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.</p> <p><input checked="" type="checkbox"/> The project activity is likely to generate GHG emission reductions amounting to the estimated 3,581 tCO₂e, as indicated in the monitoring report/10/, which are additional to the reductions that are likely to occur in absence of the project activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3.</p> <p><input checked="" type="checkbox"/> The project activity is not likely to cause any net-harm to the environment and/or society</p>


	<input checked="" type="checkbox"/> The project activity complies with all the applicable UCR rules and therefore recommends UCR Program to register the Project activity with above mentioned labels.
Project Verification Report, reference number and date of approval	<p>Verification Report UCR</p> <p>UCR ID: 489</p> <p>Version: 1.0</p> <p>Date: 14/07/2025</p>
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	<div style="text-align: center;">  </div> <p>Ms. Trapti Joshi GHG Assessor Naturelink Solution Pvt. Ltd. Date: 14/07/2025</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 Lagnam Spintex Ltd. to perform an independent verification of its UCR project titled **“3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd.”, UCR approved project ID:489**, to establish a number of CoUs generated by the project over the crediting period from 09/09/2023 to 31/12/2024 (both days included).

Verification for the period: 09/09/2023 to 31/12/2024

In our opinion, the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report (MR) V2.0/10/, 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, AMS-I. D: “Grid connected renewable electricity generation”, version 18/4/. The verification was done by remote inspection of the plant and submission of documents for verification through emails.

It is certified that the emission reductions from the 3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd. (UCR ID – 489) for the period 09/09/2023 to 31/12/2024 amounts to **3,581 CoUs (3,581 tCO₂e)**.

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 V1.0/09/.
2. To verify the implemented monitoring plan with the registered PCN V1.0/09/ applied baseline and monitoring methodology.
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.

The project is assessed against the requirements of the UCR Program Manual/1/, UCR CoU Standard/2/ and UCR verification standard/3/, ISO 14064-2:2019.

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 is a renewable power generation activity which incorporates operation of 3.6 MW AC rooftop mounted solar project developed by M/s Lagnam Spintex Ltd. The project activity is located at Bhilwara district in the state of Rajasthan (India).

The project involves installation of solar plant of 3.6 MW at Rajasthan state of India. The details of the project activity are verified with the PCN V1.0/9/, MR V2.0/10/ and relevant documents submitted for verification as mentioned in appendix-2.

The project involves a 3.6 MW AC rooftop-mounted solar PV plant using Monocrystalline solar photovoltaic technology make by HPL.

Solar cells convert sunlight directly into electricity by generating a small voltage when light hits a junction within the cell. These cells are connected in modules and protected in laminates, forming PV arrays, which are the main units of power generation in the system.

Technical specification of the all the 3.6 MW Rooftop Mounted technology plants are as follows:

Parameter	Description
Total number of Photovoltaic Modules	4755
Rating of Photovoltaic Module	545 /550/540 Wp
Module make	TATA
Technology	Mono PERC Module
No. of Inverter	30
Invertor	String
Invertor make	SOLIS
PV Connectors	Grid-tied, 1100V DC, IP66
Energy meter Type	3*240 VAC,50Hz
Energy meter make	HPL

As mentioned in the MR V 2.0/17/ and emission reduction calculation sheet/11/ submitted for verification, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be 3,581 tCO₂e for the verification period, there on displacing 4,566.79 MWh amount of electricity from the generation of fossil-fuel based power plants connected to the Indian electricity grid.

The project activity is a rooftop mounted solar plant for renewable energy generation project having a capacity of less than 15 MW. The project is a small-scale activity. The methodology applied in the MR V2.0/10/ is verified against the AMS-I. D: "Grid connected renewable electricity generation", version 18/4/ 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	09/09/2023
Start date of this Monitoring Period	09/09/2023
Carbon credits claimed up to	31/12/2024
Total ERs generated (tCO ₂ e)	3,581

Leakage Emission	0
Project Emission	0

1.3 Project Verification team, technical reviewer and approver:

Sr. No.	Role	Last name	First name	Affiliation	Involvement in		
					Doc review	Remote inspection	Interviews
1.	GHG Assessor	Joshi	Trapti	Naturelink Solutions Pvt. Ltd.	Yes	Yes	Yes

2 Verification Process

2.1.1 Desk/document review

- A review of data and information presented to assess its completeness
- A review of the initial PCN/9/, MR/10/, emission reduction calculation sheet/11/, Methodology - AMS-I. D V 18.0/4/.
- A cross-check between information provided in the monitoring report /10/ and data from other sources such as monthly electricity generation by PP/13/ and similar data sources;
- A review of calculations and assumptions made in determining the GHG data and emission reductions calculation/11/;

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

2.1.2 Remote Inspection

The verification team conducted remote assessment of project activity via video conferencing on 31/03/2025 as mentioned in the below table.

Date of remote inspection:		31/03/2025		
No.	Activity performed during remote inspection	Site location	Date	Project Personnel
1.	Opening meeting	Project location	31/03/2025	Mr. Mamchand Saini, Chief Engineer Mr. Deepak Jain, Director Mr. Kashyap Trivedi, Associate Consultant
2.	Visit to all installation location and document verification	Project location	31/03/2025	Mr. Mamchand Saini, Chief Engineer Mr. Deepak Jain, Director Mr. Kashyap Trivedi, Associate Consultant

3.	Closing meeting	Project location	31/03/2025	Mr. Mamchand Saini, Chief Engineer Mr. Deepak Jain, Director Mr. Kashyap Trivedi, Associate Consultant
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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 V1.0/9/.
- 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 V1.0/9/ and MR V1.0 /10/;
- A cross-check between information provided in the MR V1.0/10/ and data from other sources such as energy generation reports/12/, equipment details, or similar data sources;
- A cross-check of the monitoring equipment including calibration reports and observations of monitoring practices against the requirements of the PCN V1.0/9/ and MR V1.0/10/ and the applied methodology AMS I.D. version 18.0/04/;
- A review of calculations and assumptions made in determining the GHG emission reductions calculation/11/;
- 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.

2.1.3 Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Jain	Mr. Deepak	Director M/s Lagnam Spintex Ltd.	31/03/2025	Legal ownership of the project, Implementation of the project, start date and crediting period, Double counting of the carbon credits
2.	Saini	Mr. Mamchand	Chief Engineer M/s Lagnam Spintex Ltd.	31/03/2025	Project boundary, Monitoring plan Electricity generation, meter reading, log book, meter calibration Installation and connection of the solar plant, Solar panel and inverter specification,

3.	Trivedi	Kashyap	Associate Consultant – Creduce Technologies Pvt. Ltd.	31/03/2025	Project Overview, PCN, Monitoring Report, Methodology, eligibility criteria, Baseline emissions, Emission Reduction Calculation
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2.1.4 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
Green House Gas (GHG)			
Identification and Eligibility of project type	NIL	NIL	NIL
General description of project activity	NIL	NIL	NIL
Application and selection of methodologies and standardized baselines	NIL	NIL	NIL
• Application of methodologies and standardized baselines	NIL	NIL	NIL
• Deviation from methodology and/or methodological tool	NIL	NIL	NIL
• Clarification on applicability of methodology, tool and/or standardized baseline	NIL	NIL	NIL
• Project boundary, sources and GHGs	NIL	NIL	NIL
• Baseline scenario	NIL	NIL	NIL
• Estimation of emission reductions or net anthropogenic removals	NIL	NIL	NIL
• Monitoring Report	NIL	NIL	NIL
Start date, crediting period and duration	NIL	NIL	NIL
Environmental impacts	NIL	NIL	NIL
Project Owner- Identification and communication	NIL	NIL	NIL
Positive social impact	NIL	NIL	NIL
Sustainable development aspect	NIL	NIL	NIL
Others (please specify)	NIL	NIL	NIL
Total	NIL	NIL	NIL

3 Project Verification findings

3.1 Identification and eligibility of project type

Means of Project Verification	<p>The project is eligible as per UCR General project eligibility criteria and guidance Version 7.0/2/ which is acceptable since the project has not been registered under any other GHG program and the energy generation has begun on 09/09/2023 of M/s Lagnam Spintex Ltd. The commissioning certificates/13/ of the Rooftop mounted solar power plants involved in the project activity 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 Rooftop mounted power plants from respective energy development agency in their building premises to source the renewable energy generated through installed solar plant.</p> <p>The project delivered real, measurable and additional emission reduction of 3,581 tCO₂e over the crediting period.</p> <p>Project applies an approved CDM monitoring and baseline methodology AMS-I.D Grid connected renewable electricity generation – Version 18.0/4/.</p>
Findings	No findings were raised
Conclusion	<p>The project is eligible as per the requirements of the UCR General project eligibility criteria and guidance Version 7.0/2/.</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

Means of Project Verification	<p>The purpose of the project activity is to utilize clean energy to generate electricity which would be used to meet the electrical demand of the manufacturing facility of PP. The project owner having installed capacity of 3.6 MW AC Solar Photovoltaic (SPV) panels on Rooftop mounted which consists of Monocrystalline Photovoltaic (PV) Plant. The project activity uses Monocrystalline Mono PERC solar photovoltaic technology to generate clean energy. Solar radiation is converted directly into electricity by solar cells (photovoltaic cells). In such cells, a small electric voltage is generated when light strikes the junction between a metal and a semiconductor (such as silicon) or the junction between two different</p>
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	<p>semiconductors. Thus, the project activity generated total 4,566.79 MWh electricity and displacing 3,581 tCO₂e.</p> <p>In the absence of the project activity, PO was importing the required electricity from the NEWNE grid to meet its requirement of electrical energy. The NEWNE Indian grid which is dominated by fossil fuel grid connected power plants. The electricity generated from solar plant is consumed by manufacturing facility and injected to the grid of the distribution utility under the mechanism of net metering if any surplus electricity is available after meeting their own consumption. The Location details has been verified during the remote audit interview, site photos, Site videos and geo-coordinates verified through google earth/maps and found to be correct.</p> <p>The project activity installed Photovoltaic module consists of several photovoltaic cells connected by circuits and sealed in an environmentally protective laminate, which forms the fundamental building blocks of the complete PV generating unit. Several PV panels mounted on a frame are termed as PV Array.</p> <p>The technical details of solar panels and inverters provided in PCN V1.0/09/ and MR V 2.0 /10/ have been verified during the remote assessment technical specification document/14/.</p> <p>The project activity described and applied AMS-I. D: “Grid connected renewable electricity generation”, version 18 /4/ falls into the small-scale category as per CDM methodology.</p>
Findings	No findings were raised
Conclusion	The description of the project activity is verified to be true based on the review of PCN V1.0/09/, MR 2.0/14/, Commissioning Certificate/13/ of solar plants.

3.3 Application and selection of methodologies and standardized baselines

3.3.1 Application of methodology and standardized baselines

Means of Project Verification	<p>The project activity applied AMS-I. D: “Grid connected renewable electricity generation”, version 18/4/ falls into the small-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 activity and clearly mentioned in PCN V1.0/09/ and MR /10/.</p>
Findings	No findings were raised

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

Means of Project Verification	Applicability as per AMS I.D version 18.0	Verifier assessment
	<p>This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass:</p> <p>a) Supplying electricity to a national or a regional grid; or</p> <p>b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling.</p>	<p>The proposed project activity “3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd.” which incorporates installation and operation of Rooftop mounted solar photovoltaic power generation through Power purchase agreement.</p> <p>b) Is applicable as in the absence of the project activity the total electricity requirements by the manufacturing facility was drawn from grid and produced from fossil fuel fired power plant. This fact was confirmed during the remote.</p>
	<p>2. This methodology is applicable to project activities that:</p> <p>a. Install a greenfield plant;</p> <p>b. Involve a capacity addition in (an) existing plant(s);</p> <p>c. Involve a retrofit of (an) existing plant(s);</p> <p>d. Involve a rehabilitation of (an) existing plant(s)/ unit(s); or</p> <p>e. Involve a replacement of (an) existing plant(s).</p>	<p>The project is installation of a greenfield plant. Hence the project activity meets the given applicability criterion.</p>
	<p>3. Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology:</p> <p>a. The project activity is implemented in an existing reservoir with no change in the volume of reservoir;</p> <p>b. The project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the</p>	<p>This criterion is not applicable as the project activity is the installation and operation of Rooftop mounted solar plants to generate electricity.</p>

	<p>power density of the project activity, as per definitions given in the project emissions section, is greater than 4 W/m².</p> <p>The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m²</p>	
	<p>4. If the new unit has both renewable and non-renewable components (e.g., a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW</p>	<p>The project is 3.6 MW small scale Rooftop mounted solar power plants i.e., only component is renewable power project below 15 MW, thus the criterion is not applicable to this project activity.</p>
	<p>5. Combined heat and power (co-generation) systems are not eligible under this category.</p>	<p>The project activity does not involve co-generation. Hence this criterion is not applicable.</p>
	<p>6. In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct⁶ from the existing units.</p>	<p>No capacity addition in the existing renewable plant. This is new installation of Rooftop mounted solar power plants which was verified and confirmed through document verification and interviews with project owner and their representatives. Hence this criterion is not applicable.</p>
	<p>7. In the case of retrofit or replacement, to qualify as a small-scale project, the total output of the retrofitted or replacement unit shall not exceed the limit of 15 MW.</p>	<p>There is no retrofit or replacement in the project activity, hence it is not applicable.</p>
	<p>8. In the case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a grid, then the baseline for the electricity component shall be in accordance with procedure prescribed under this methodology. If the recovered methane is used for heat</p>	<p>This criterion is not applicable as the project activity is the installation of solar PV panels to generate electricity.</p>

	generation or cogeneration other applicable Type-I methodologies such as “AMS-I.C.: Thermal energy production with or without electricity” shall be explored.	
	9. In case biomass is sourced from dedicate plantations, the applicability criteria in the tool “Project emissions from cultivation of biomass” shall apply.	The project activity is new greenfield activity of solar power plant and does not involve biomass, hence this criterion is not applicable.
Findings	No findings were raised	
Conclusion	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/10/. The selected CDM methodology for the project activity is applicable.	

3.3.3 Project boundary, sources and GHGs

Means of Project Verification	<p>As per the applied methodology AMS-I. D version 18.0/4/, the spatial extent of the project boundary includes industrial, commercial facilities consuming energy generated by the system. The components of the project boundary mentioned in the section B.4 of PCN 1.0/9/ were found to be in compliance with para 18 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. The project verification team confirmed that all GHG sources required by the methodology have been included within the project boundary.</p> <p>It was assessed that no emission sources related to project activity will cause any deviation from the applicability of the methodology or accuracy of the emission reductions.</p> <p>The project location is clearly depicted with the help of a pictorial depiction in section A.3. of the PCN V1.0/09/ and duly verified by the project verification team via geographical coordinates, commissioning certificate/13/ of the project activity.</p>
Findings	No findings were raised
Conclusion	The project verification team has assessed complete information regarding the project boundary provided in PCN V1.0/09/ and MR V2.0/10/ and verified the evidence from the commissioning certificate/13/, geographical coordinates.

	The project verification team confirms that the identified boundary, and selected emissions sources are justified for the project activity.
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3.3.4 Baseline scenario

Means of Project Verification	The baseline scenario as per paragraph 19 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. As per paragraph 19 Baseline emissions for other systems are the product of amount electricity displaced with the electricity produced by the renewable generating unit and an emission factor from the available options of calculation of emission factor as mentioned in AMS-I.D /4/.
Findings	No findings were raised
Conclusion	<p>The project verification team concluded that the identified baseline scenario reasonably represents what would have occurred 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 1.0/9/ and MR/10/ is in accordance with applied methodology. Project Verification team checked section B.5 and C.5.1 of the PCN 1.0/9/ and MR/10/ 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 done as per the CDM SSC methodology AMS-I. D, Version 18.0/4/.</p> $BE_y = EG_{PJ,y} \times EF_{grid,y}$ <p>Where,</p> <p>BE_y = Baseline Emissions in year y; tCO₂</p> <p>EG_{Bly} = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh)</p> <p>$EF_{CO_2,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y.</p> <p>Project emissions:</p>
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	<p>As per paragraph 39 of the applied methodology, For most renewable energy project activities, $PE_y = 0$. 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 42 of the applied methodology AMS-I.D Version 18.0, there are no emissions related to leakage in this project.</p> <p>As per the general project eligibility criteria and guidance/2/; “The project owner has opted UCR recommended emission factor of 0.9 tCO₂/MWh for the 2013-2020 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program”.</p> <p>Also, for the vintage 2024, the combined margin emission factor of 0.757 tCO₂/MWh, calculated from the CEA database in India, results in higher emissions than the default value. Hence, the same emission factor has been considered to calculate the emission reduction under a conservative approach.</p> <p>Emission reductions</p> <p>As per Paragraph 43, Equation 09 of the applied methodology, emission reductions are calculated as follows</p> $ER_y = BE_y - PE_y - LE_y$ <p>Where:</p> <p>ER_y = Emission reductions in year y (tCO₂)</p> <p>BE_y = Baseline Emissions in year y (tCO₂)</p> <p>PE_y = Project emissions in year y (tCO₂)</p> <p>LE_y = Leakage emissions in year y (tCO₂)</p> <table><tr><th>Year</th><th>EG_{py} (MWh)</th><th>EF_{grid, y}</th><th>BE_y</th></tr><tr><td>2023</td><td>904.86</td><td>0.9</td><td>814</td></tr><tr><td>2024</td><td>3,661.92</td><td>0.757</td><td>2,772</td></tr><tr><td colspan="3">BE (tCO₂e) for the period from 2023 to 2024</td><td>3,581</td></tr></table>	Year	EG _{py} (MWh)	EF _{grid, y}	BE _y	2023	904.86	0.9	814	2024	3,661.92	0.757	2,772	BE (tCO ₂ e) for the period from 2023 to 2024			3,581
Year	EG _{py} (MWh)	EF _{grid, y}	BE _y														
2023	904.86	0.9	814														
2024	3,661.92	0.757	2,772														
BE (tCO ₂ e) for the period from 2023 to 2024			3,581														
Findings	No findings were raised																
Conclusion	<p>The UCR recommends an emission factor of 0.9 tCO₂/MWh for the 2013-2020 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. However, the emission factor of 0.9 tCO₂/MWh for the year 2023 as the most conservative estimate between the national electricity/power authority published dataset and the UCR default of 0.9 tCO₂/MWh ‘as per the UCR standard version 7.0/2/.</p> <p>Also, for the vintage 2024, the combined margin emission factor calculated from CEA database in India results into emission factors of 0.757 as a fairly conservative estimate.</p> <p>Project Verification team confirms that the algorithms and formulae proposed to calculate project emissions, baseline emissions,</p>																

	<p>leakage and emission reductions in the PCN V1.0/09/ and MR 2.0/10/, ER sheet 2.0/11/ is in line with the requirements of the selected methodology AMS-I. D version 18.0/4/. Monthly Electricity generation of electricity has been verified with JMRs for the current Monitoring period and found it correct.</p> <p>For emission reduction calculation, the assessment team confirms that all assumptions and data used by the project participants are listed in the PCN/9/ and MR Version 2.0/10/ 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/7/ and MR Version 2.0/10/.</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>
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3.3.6 Monitoring Report

Means of Project Verification	<p>The MR/10/ submitted by the PP has been verified thoroughly and is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/2/ 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/4/ 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 remote audit interview assessment.</p> <p>Monitoring methodology, data management and calibration of the energy meter were also discussed with project owner.</p>
Findings	No findings were raised.
Conclusion	<p>The project verification team confirms that,</p> <p>the MR 2.0/10/ is in compliance with the applicable methodology/4/ and UCR General project eligibility criteria and guidance/2/.</p> <p>The monitoring parameters reported in PCN V1.0/09/ and MR 2.0/10/ 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 2.0/10/ emission reduction calculations sheet/11/ are correctly calculated and reported. The MR 2.0/10/, meets the requirements of UCR project verification requirements /3/.</p>
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3.4 Start date, crediting period and duration

Means of Project Verification	The Commissioning certificate/13/ of the installation of the project activity has been verified as per PCN V1.0/9/ and MR /10/.
Findings	No findings were raised.
Conclusion	Crediting period for the agreed verification is from 09/09/2023 to 31/12/2024 which is appropriate as per UCR General project eligibility criteria and guidance/2/.

3.5 Environmental impacts and safeguard assessment

Means of Project Verification	<p>As The guidelines on Environmental Impact Assessment have been published by Ministry of Environment, Forests and Climate Change (MoEF&CC), Government of India (GOI) under Environmental Impact Assessment notification 11/07/2024. Further amendments to the notification have been done, The Solar Power projects up to 25 MW are listed in white category, hence the No EIA required.</p> <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>Environment Air - CO₂ emissions: The project activity being renewable power generation avoids CO₂ emissions that would have occurred in baseline scenario due to the electricity generation in thermal power plants.</p> <p>Environment - Natural Resources: Replacing fossil fuels with renewable sources of energy.</p> <p>Impacts identified as 'Harmless':</p> <p>Solid waste Pollution from E- waste: - Any E-waste including broken panels and batteries if generated from the plant shall be discarded in accordance with host country regulation.</p> <p>Land use: since the solar plant is Rooftop-mounted in the PO premises; no land is harmed due to the project activity.</p>
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	<p>Emission due to transportation of solar panels: The emissions associated with transport of the modules are insignificant compare to manufacturing facilities.</p> <p>Solid waste Pollution from end-of-life products equipment: - Waste generated from the plant.</p>
Findings	No findings were raised.
Conclusion	The project activity displaces fossil fuel consumption and provides affordable and clean energy. The project has also avoided total 3,581 tCO ₂ e, hence it has positive impact.

3.6 Project Owner- Identification and communication

Means of Project Verification	<p>The information and contact details of the project owner has been appropriately incorporated in the PCN/9/, MR/10/ which was checked.</p> <p>The legal owner of the project activity has been identified through the commissioning certificate/13/.</p>
Findings	No findings were raised
Conclusion	The project verification team confirms that the legal ownership of the project belongs to M/s Lagnam Spintex Ltd.

3.7 Positive Social Impact

Means of Project Verification	NA
Findings	--
Conclusion	--

3.8 Sustainable development aspects (if any)

Means of Project Verification	Not Applicable
Findings	--
Conclusion	The Project has the capability to address SDG 7 Affordable and Clean Energy and SDG 13 Climate Action

3.9 Others (DAA)

Means of Project Verification	The verification team has referred other GHG program to avoid double counting of emission reduction
Findings	No findings were raised
Conclusion	It was verified that the project has not applied for registration and issuance in the other GHG programs and provided the agreement/8/ stating not taking benefits of double counting.

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/, AMS -I.D. -Grid connected renewable electricity generation version 18.0/4/, Project Concept Note (PCN)/9/, Commissioning Certificate/13/, Calibration Report/15/, Monitoring Report (MR)/10/ and documents mentioned in Appendix-2.

Verification team raised 00 Nos. of Clarification Requests (CLs) and 00 Nos. of Corrective Actions Requests (CARs) and all the queries were closed satisfactorily.

It is hence certified with reasonable level of assurance that the emission reductions from the project 3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd. (UCR ID - 489) for the period 09/09/2023 to 31/12/2024 amounts to **3,581** CoUs (3,581 tCO₂e) as per the UCR Verification standard /3/.

6 Competence of team members

No.	Last name	First name	Role and Affiliation	Technical Competence
1.	Joshi	Trapti	GHG Assessor & Approver - NSPL	Ms. Trapti Joshi is having M.Tech. In Environmental Engineering. She has experience in conducting environmental audits in CDM/VCS/GS registry. She has performed the Renewable sector and Waste handling projects. Also, she has done Master's thesis in Solid waste management project through LCA Gabi Software.

Appendix 1: Abbreviations

Abbreviations	Full texts
AVVNL	Ajmer Vidyut Vitran Nigam Limited
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
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
SDG	Sustainable Development Goal
tCO ₂ e	Tons of Carbon Dioxide Equivalent
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 6.1, August 2024	UCR website
2.	UCR	UCR General project eligibility criteria and guidance (UCR CoU Standard)	Version 7.0, August 2024	UCR website
3.	UCR	UCR Program Verification standard	Version 2.0, August 2022	UCR website
4.	CDM	AMS-I. D – “Grid connected renewable electricity generation”	Version 18.0	CDM website
5.	CEA	Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2022	Dated 28/02/2022	-
6.	CEA	CO ₂ baseline database for the Indian Power sector	Version 20.0 dated December 2024	-
7.	PA	Communication agreement between PP and PO	Dated 24/12/2024	PA
8.	Creduce	Assurance to avoid double accounting by project owners	Double accounting agreement signed on 06/03/2025	PA
9.	Creduce	PCN V 1.0	Dated 20/01/2025	PA
10.	Creduce	MR Version 1.0 MR Version 2.0	Dated 26/03/2025 Dated 03/04/2025	PA
11.	Creduce	Emission reduction excel – “3.6 MW Small Scale Solar Power Project by M/s Lagnam Spintex Ltd.”	Version 1.0 dated 26/03/2025 Version 2.0 dated 03/04/2025	PA
12.	PO	Solar generation monthly report	-	PO
13.	AVVNL Ajmer	Commissioning certificate	Dated 20/05/2023	PA
14.	PO	Technical specification	-	PA
15.	Ajmer Vidyut Vitran Nigam Limited	Meter test reports	Dated 09/09/2023	PA

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

Table 1. CLs from this Project Verification

CL ID	--	Section no.		Date:
Description of CL				
Project Owner's response				Date:
Documentation provided by Project Owner				

Table 2. CARs from this Project Verification

CAR ID	--	Section no.		Date:
Description of CAR				
Project Owner's response				Date:
Documentation provided by Project Owner				

Table 3. FARs from this Project Verification

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

Photographs of the remote inspection conducted of the project activity

