



Verification Report

UCR ID: 064

Prepared by



Naturelink Solutions Pvt. Ltd.

Title	2 MW Kalm Small Hydro Power project by Sunshine Hydro Power Limited
Project Owner	M/s Sunshine Hydro Power Limited
Project Location	Village Nalli, Dist.: Chamba, State: Himachal Pradesh, India. Coordinates: 32°25'59.537N, 76°01'49.518E
Date	18/10/2024

[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	18/10/2024
Title of the project activity	2 MW Kalm Small Hydro Power project by Sunshine Hydro Power Limited
Project reference no. (as provided by UCR Program)	064
Name of Entity requesting verification service	M/s. Creduce Technologies Private Limited (Aggregator) M/s Sunshine Hydro Power Limited (Project owner)
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	Shailendra Singh Rao (Creduce) shailendra@credcue.tech M/s Sunshine Hydro Power Limited balajibep1@rediffmail.com
Country where project is located	India
Applied methodologies	AMS-I.D: Grid connected renewable electricity generation– Version 18.0
Sectoral Scope(s):	1 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 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)
<p>Project Verification Criteria: Optional requirements to be assessed</p>	<input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria <input type="checkbox"/> Social Safeguards Standard do-no-harm criteria
<p>Project Verifier's Confirmation: The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:</p>	<p>The UCR-approved verifier Naturelink Solution Pvt. Ltd., verifies the following with respect to the UCR Project Activity "2 MW Kalm Small Hydro Power project by Sunshine Hydro Power Limited"</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. <input checked="" type="checkbox"/> The project activity is likely to generate GHG emission reductions amounting to the estimated 57,077 tCO ₂ e, as indicated in the monitoring report/10/18/, 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.
Project Verification Report, reference number and date of approval	<p style="text-align: center;">Verification Report UCR</p> <p style="text-align: center;">UCR ID: 064</p> <p style="text-align: center;">Version: 1.0</p> <p style="text-align: center;">Date: 18/10/2024</p>
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	<div style="text-align: center;">  </div> <p style="text-align: center;">Mr. Shyam Mandliya Lead Assessor Naturelink Solution Pvt. Ltd. Date: 18/10/2024</p>

Table of Contents

1. Project Verification Report	5
1.1 Executive Summary.....	5
1.2 Description of the Project	6
1.3 Project Verification team, technical reviewer and approver:.....	8
1.3.1 Project verification team	8
2 Verification Process	9
2.1 Desk/document review.....	9
2.2 Remote Inspection.....	9
2.3 Interviews.....	10
2.4 Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised	11
3 Project Verification findings	11
3.1 Identification and eligibility of project type.....	11
3.2 General description of project activity	12
3.3 Application and selection of methodologies and standardized baselines.....	13
3.3.1 Application of methodology and standardized baselines	13
3.3.2 Clarification on applicability of methodology, tool, and/or standardized baseline	14
3.3.3 Project boundary, sources and GHGs.....	16
3.3.4 Baseline scenario	17
3.3.5 Estimation of emission reductions or net anthropogenic removal.....	17
3.3.6 Monitoring Report.....	19
3.4 Start date, crediting period and duration	20
3.5 Environmental impacts and safeguard assessment.....	20
3.6 Project Owner- Identification and communication	21
3.7 Others (Double Counting of Credits)	21
4 Internal quality control:.....	22
5 Project Verification opinion:.....	22
6 Competence of team members and technical reviewers	23
Appendix 1: Abbreviations	24
Appendix 2: Document reviewed or referenced.....	25
Appendix 3: Clarification request, corrective action request and forward action request.....	27

1. Project Verification Report

1.1 Executive Summary

The verification work has been contracted by project aggregator Creduce Technologies Pvt Ltd and M/s Sunshine Hydro Power Limited to perform an independent verification of its UCR project titled “**2 MW Kalm Small Hydro Power project by Sunshine Hydro Power Limited**” **UCR approved project ID:064**, to establish a number of CoUs generated by the project over the crediting period from 17/10/2014 to 31/12/2023 (both days included).

Verification for the period: 17/10/2014 to 31/12/2023

In our opinion, the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report (MR)/18/, 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 18.0/4/. 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 2 MW Kalm Small Hydro Power project by Sunshine Hydro Power Limited (UCR ID – 064) for the period 17/10/2014 to 31/12/2023 amounts to **57,077 CoUs (57,077 tCO_{2e})**.

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.
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 14064-2:2019.

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

Project activity involves construction and operation of Small-Scale hydro project in the state of Himachal Pradesh in India. The project involves a trench weir that diverts water into an intake located on the left bank of the Kalm Nallah. The diverted water flows through a desilting basin, after which the sediment-free water moves into the water conductor system, forebay, and steel pressure shaft. A surface powerhouse is strategically positioned on a terrace along the left bank of the nallah. After passing through the powerhouse, the tailwater is returned/discharged to the nallah. The project harnesses a net head of approximately 337 meters. It causes minimum environmental impacts and will reduce dependence on fossil fuels.

The proposed project activity is installation and operation of 2 Pelton Hydro Turbine Generators having individual capacity 1000kW with aggregated installed capacity of 2.00 MW in District -Chamba, Himachal Pradesh state of India. This project activity is also called as Kalm small hydroelectric power (SHEP) project.

The proposed bundled project activity is promoted by M/s Sunshine Hydro Power Limited (herein after called as project proponent PP). The project activity aims to harness kinetic energy of water (renewable source) to generate electricity. Project activity is displacing the gross electricity generation i.e., 63423 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/18/ and relevant documents submitted for verification as mentioned in appendix-2. Assessment team verified the technical specifications listed below through the provided technical specification document and remote audit conducted on date and found it correct.

The technical specification is listed below;

Design Discharge	0.71 cumecs
Gross Head	348.8 m
Net Head	337.0 m
Diversion Weir	
Type	Trench weir (R.C.C)
Shape	Trapezoidal
Length	13.5 m
Design Discharge	14.31 cumecs including flushing
Feeder Channel	
Length	150 m
Shape / Material	Rectangular / R.C.C (cut and cover)
Size	Bed width 580 mm Height 1160 mm
Max. Discharge capacity	1.06 m ³ /sec
Desilting Tank	

Total Length	27.0 m
Width	5.30 m
Full supply depth	2.00 m
Free board	0.20 m
Type / Material	R.C.C
Power Channel	
Length	4825 m
Shape / Material	Rectangular / R.C.C (cut and cover)
Size	1200 mm x 600 mm x 500 mm
Max. Discharge capacity	0.85 cumces
Forebay Tank	
Total Length	5.25 m
Width	2.00 m
Full supply depth	4.75 m
Free board	0.50 m
Type / Material	R.C.C
Penstock	
Number	One
Diameter – Main pipe	500 mm (I.D.)
Thickness for main pipe	6 mm - 12 mm
Length	610 m
Design Discharge	0.85 m ³ /sec
Material	Mild Steel
Power House	
Type	Surface - R.C.C
Size	29.0 m x 11.5 m x 6.5 m
Capacity	2 x 1000 kW
Gross head	348.8 m
Net head	337.0 m
Electromechanical Equipment	
Turbine type	Pelton Horizontal
Turbine number	02 Nos.
Capacity of each turbine	1650 kW
Type of generators	Synchronous, 3.3kV, 3 phase
Tail Race	
Shape	Rectangular
Size	1200 mm x 600 mm (free board of 500 mm)
Length	30 m

Power	
Installed capacity	2 x 1000 kW
No. of unit generated @ 75% load factor	14.022 MU

As mentioned in the monitoring report/18/ and emission reduction calculation sheet/11/ submitted for verification, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be 57,077 tCO₂e for the verification period, there on displacing 63423 MWh amount of electricity from the generation of fossil-fuel based power plants connected to the Indian electricity grid.

The proposed project activity is installation and operation of Small-Scale Hydro Power Project comprising of installation and operation of 2 Pelton Hydro Turbine Generators having individual capacity 1000 kW with aggregated installed capacity of 2.0 MW. The project is a small-scale activity. The methodology applied in the monitoring report is verified against the AMS-I.D: Grid connected renewable electricity generation - Version 18.0/4/ 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	SHEP (2x1000 kW) 17/10/2014
Start date of this Monitoring Period	17/10/2014
Carbon credits claimed up to	31/12/2023
Total ERs generated (tCO ₂ e)	57,077 tCO ₂ e
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	Mandliya	Shyam	Naturelink Solutions Pvt. Ltd.	Yes	Yes	Yes

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/10/18/, emission reduction calculation sheet/11/, Methodology - AMS-I. D V18.0/4/.
- A cross-check between information provided in the monitoring report/10/18/ and data from other sources such as Joint Meter Reading of electricity generated by hydro power plant/13/, detailed project report/15/ or similar data sources;
- A review of calculations and assumptions made in determining the GHG data and emission reductions calculation/11/;

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 30/09/2024 as mentioned in the below table.

Date of remote inspection:		30/09/2024		
No.	Activity performed During remote inspection	Site location	Date	Project Personnel
1.	Opening meeting	Project location	30/09/2024	Tanmeen Singh – Director, SHPL Bablu Ram – Site In-charge, SHPL Technical Manager- Anil Kumar Ms. Sakshi Negi – Senior Consultant, Creduce Technologies Private Limited
2.	Remote inspection of all installation	Project location	30/09/2024	Bablu Ram - Site In-charge, SHPL Anil Kumar - Technical Manager Ms. Sakshi Negi – Senior Consultant,

				Creduce Technologies Private Limited
3.	Closing meeting	Project location	30/09/2024	Tanmeen Singh – Director, SHPL Bablu Ram – Site In-charge, SHPL Ms. Sakshi Negi – Senior Consultant, Creduce Technologies Private Limited

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/10/;
- A cross-check of the monitoring equipment including calibration reports and observations of monitoring practices against the requirements of the PCN/9/ and MR/10/ 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.	Ram	Bablu	Site In Charge	30/09/2024	Hydro turbine specification and connections, energy meter readings, transformer specification, hydro power generation operations details with presentations, Monitoring plan, calibration details of the energy meter
2.	Kumar	Anil	Technical Manager M/s Sunshine Hydro Power Limited		
3.	Singh	Tanmeen	Director - M/s Sunshine Hydro Power Limited	30/09/2024	Legal ownership of the project, Implementation of the project, Start date and crediting period, Double counting of the carbon credits, Project boundary, hydro power generation

					operations details with presentations
4.	Negi	Sakshi	Senior Consultant Creduce Technologies Pvt. Ltd.	30/09/2024	Project Overview, PCN, Monitoring Report, Methodology, eligibility criteria, Baseline emissions, Emission Reduction Calculation

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
Green House Gas (GHG)			
Identification and Eligibility of project type	1	NIL	NIL
General description of project activity	NIL	NIL	NIL
Application and selection of methodologies and standardized baselines	--	--	--
<ul style="list-style-type: none"> Application of methodologies and standardized baselines 	NIL	NIL	NIL
<ul style="list-style-type: none"> Deviation from methodology and/or methodological tool 	NIL	NIL	NIL
<ul style="list-style-type: none"> Clarification on applicability of methodology, tool and/or standardized baseline 	1	NIL	NIL
<ul style="list-style-type: none"> Project boundary, sources and GHGs 	NIL	NIL	NIL
<ul style="list-style-type: none"> Baseline scenario 	NIL	NIL	NIL
<ul style="list-style-type: none"> Estimation of emission reductions or net anthropogenic removals 	NIL	1	NIL
<ul style="list-style-type: none"> Monitoring Report 	1	4	NIL
Start date, crediting period and duration	NIL	NIL	NIL
Environmental impacts	NIL	NIL	NIL
Project Owner- Identification and communication	NIL	NIL	NIL
Others (Double counting of credits)	1	NIL	NIL
Total	4	5	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 project Standard, Version 7.0 (Project Eligibility, Registration, Issuance and Registry Guidance Document)/2/ which is acceptable since the project has not been registered under any other GHG program for the issuance of the Monitoring period (17/10/2014 to 31/12/2023) and the project activity was commissioned on 17/10/2014 (1000kW x 2). The commissioning certificates/14/ of the hydro power plant at Chamba district of Himachal Pradesh, provided by HPSEBL 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 hydro power plant</p>
--------------------------------------	--

	<p>from Northern Power Distribution Company (HPSEBL) in the district of Shimla, Himachal Pradesh and PO has signed power purchase agreement/12/ with Himachal Pradesh State Electricity Board Ltd (HPSEBL) to supply electricity via grid.</p> <p>The project also delivers real, measurable and additional emission reduction of 57,077 tCO₂e over the crediting period (17/10/2014 to 31/12/2023).</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	CL 01 was raised.
Conclusion	<p>The project is eligible as per the requirements of the UCR project Standard, Version 7.0 (Project Eligibility, Registration, Issuance and Registry Guidance Document)/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. It is found that Project is a CDM registered project under the project ID 5504¹ with the version 15 of the applied methodology. The project was registered at CDM on 13 December 2011 with fixed crediting period of 10 years (from 13 December 2011 to 12 December 2021) and It is confirmed that the project was not submitted or registered for verification under CDM or any other GHG programmes and non-voluntary non-GHG Programs.</p>

3.2 General description of project activity

Means of Project Verification	<p>The project activity aims to harness kinetic energy of water (renewable source) to generate electricity. The net generated electricity from the project activity is transferred to Himachal Pradesh State electricity board under power purchase agreement/12/.</p> <p>The proposed project activity is installation and operation of Small-Scale Hydro Power Project comprising of 1 MW x 2 units of hydro Turbine and Generators with an aggregated installed capacity of 2 MW.</p> <p>The project activity has applied AMS-I. D: Grid connected renewable electricity generation– Version 18.0/4/ falls into the small-scale category as per applied CDM methodology.</p> <p>A power purchase agreement/12/ is signed between M/s Sunshine Hydro Power Limited and HPSEBL dated 23/04/2015 for transfer of</p>
--------------------------------------	--

¹ <https://cdm.unfccc.int/Projects/DB/RWTUV1323729355.13/view>

	<p>electricity generated by hydro turbine generators. The project activity generated total 63423 MWh electricity and displacing 57,077 tCO₂e.</p> <p>The project activity generates clean energy by utilizing the hydro potential of the water flowing in the Ravi River. It causes minimum environmental impacts and will reduce dependence on fossil fuels.</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 mentioned in Detailed project report /15/.</p>
Findings	No findings raised
Conclusion	The description of the project activity is verified to be true based on the review of PCN/9/, MR/18/, Commissioning Certificates/14/, Technical specifications/15/ and power purchase agreement/12/ of Hydro power plant.

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 18.0/4/ 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), 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/9/ and MR/10/18/.</p>
Findings	No finding was 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.

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>1. 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 project activity “2 MW Kalm Small Hydro Power project by Sunshine Hydro Power Limited” incorporates installation and operation Hydro power plant for supplying of electricity to the national grid, hence (a) applied here is appropriate as PP has signed power purchase agreement/12/ with HPSEBL to supply electricity.</p> <p>This was confirmed during the online assessment and through document review of power purchase agreement/12/ and monthly energy bills/JMR /13/.</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 green field plant and involves installation and generation of electricity from total 2 MW (1 MW x 2) capacity of hydro turbine generator connected to the Indian national grid. The electricity generated from project activity is exported to the Indian national grid, there by displacing electricity from the grid which would have otherwise been generated by operation of grid connected power plants and by addition of new generation sources into the grid. The project activity generates 63423 MWh of electricity and displaces 57,077 tCO_{2e}.</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>Small scale hydro power plant does not consist of reservoir. As the project activity is a run-off river type hydro power plant, this criterion is not relevant for the project activity.</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>c. 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 activity is a 2 MW hydro power project, i.e., the only component is a 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 distinct from the existing units.</p>	<p>No capacity addition in the existing renewable plant. The project activity is a 2 MW hydro power project whose capacity is below 15 MW. This is new installation of hydro power plant which was verified and confirmed through online assessment and interviews with project owner and their representatives.</p> <p>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</p>	<p>The project activity is a greenfield 2 MW hydro power project; hence, this criterion is not applicable to this project activity.</p>

	<p>prescribed under this methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as “AMS-I.C.: Thermal energy production with or without electricity” shall be explored.</p>	
	<p>9. In case biomass is sourced from dedicate plantations, the applicability criteria in the tool “Project emissions from cultivation of biomass” shall apply.</p>	<p>The project activity is new greenfield activity of hydro power plant and does not involve biomass, hence this criterion is not applicable.</p>
Findings	CL 03 was raised	
Conclusion	<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/18/. The selected CDM methodology for the project activity is applicable.</p>	

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/9/ were verified against the 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 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 certificate/14/ of the project activity & power purchase agreement/12/ between M/s Sunshine hydro power limited and HPSEBL.</p>
Findings	No findings raised
Conclusion	<p>The project verification team was able to assess that complete information regarding the project boundary has been provided in PCN/9/ and MR/18/ and could be assured from the DPR/15/, commissioning certificates/14/, geographical coordinates, Single line diagram/17/ and power purchase agreement/12/</p>

	The project verification team confirms that the identified boundary is relevant and all emissions sources are included in the project activity.
--	---

3.3.4 Baseline scenario

Means of Project Verification	<p>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.</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 tCO₂/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 tCO₂/MWh”.</p>
Findings	No findings raised
Conclusion	<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/10/18/ is in accordance with applied methodology. Project Verification team checked section B.5 and C.5.1 of the PCN/9/ & MR/10/18/ 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 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>$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation</p>
--------------------------------------	---

of the CDM project activity in year y (MWh)

$EF_{grid,y}$ = UCR recommended emission factor of 0.9 tCO₂/MWh has been considered.

(Reference: General Project Eligibility Criteria and Guidance, UCR Standard, page 4)

Project emissions:

As per paragraph 39 of the applied methodology, For most renewable energy project activities, $PE_y = 0$. Since Hydro power is a GHG emission free source of energy project emission considered as Zero for the project activity.

Leakage Emissions:

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.

Emission reductions

As per Paragraph 43, Equation 09 of the applied methodology, emission reductions are calculated as follows

$$ER_y = BE_y - PE_y - LE_y$$

Where:

ER_y = Emission reductions in year y (tCO₂)

BE_y = Baseline Emissions in year y (t CO₂)

PE_y = Project emissions in year y (t CO₂)

LE_y = Leakage emissions in year y (t CO₂)

Year	Electricity generated (MWh)	Emission factor (tCO ₂ /MWh)	Total Emission reduction (tCO ₂ e)
2014 - 2023	63423	0.9	57,077

Findings

CAR 05 was raised

Conclusion

The combined margin emission factor as per “CO₂ Baseline Database for the Indian Power Sector” current version 18, December 2022 by CEA/6/ which results into higher emission factor than the UCR recommended emission factor of 0.9 tCO₂/MWh; Hence for 2022 vintage UCR default emission factor remains conservative as per General project eligibility criteria and guidance of the UCR Project Standard /2/.

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/18/ is in line with the requirements of the selected methodology AMS-I.D, version 18.0/4/.

For emission reduction calculation, the assessment team confirms that;

	<p>All assumptions and data used by the project participants are listed in the PCN/9/ and MR/18/ 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/18/.</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

Means of Project Verification	<p>The monitoring report/10/18/ 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 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 in five years.</p> <p>Monitoring methodology, data management and calibration of the energy meter were also discussed with project owner.</p>
Findings	CL 02, CAR 02, CAR 03 and CAR 04 were raised
Conclusion	<p>The project verification team confirms that,</p> <p>The monitoring report/18/ is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/2/.</p> <p>The monitoring parameters reported in PCN/9/ and MR/18/ 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/18/, emission reduction calculations sheet/11/ are correctly calculated and reported. The monitoring report/18/ meets the requirements of UCR project verification requirements.</p>

	The project proponent has carried out calibration of energy meter for the monitoring period.			
	Energy meter details are as follows:			
	Meter Number	Make	Calibration Date	Accuracy class
	13193420 (main)	L & T	24/10/2016	0.2s
	13193496(check)	L & T	24/10/2016	0.2s
	13193420(main)	L & T	04/05/2022	0.2s
13193496(check)	L & T	04/05/2022	0.2s	

3.4 Start date, crediting period and duration

Means of Project Verification	The Commissioning certificates/14/ of the installation of the project activity has been verified as per PCN/9/ and MR/10/18/.
Findings	No findings raised
Conclusion	The Hydro power plant was commissioned on 17/10/2014. The project crediting period is first monitoring period which is from 17/10/2014 to 31/12/2023. The crediting period is also 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 14/09/2006².</p> <p>Further amendments to the notification have been done, The Hydro Power projects up to 25 MW are listed in white category, hence, 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: 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>
--------------------------------------	--

² <https://clip.cpcb.gov.in/wp-content/uploads/2021/10/ENVIRONMENT-IMPACT-ASSESSMENT-Notification.pdf>

	<p>Environment - Natural Resources: Replacing fossil fuels with renewable sources of energy.</p> <p>Impacts identified as 'Harmless':</p> <p>Solid waste Pollution: - 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>Land use: since the hydro power plant does not require larger area, there is no significant damage to land.</p> <p>Emission due to transportation of hydro power plant components: The emissions associated with the transport of the modules are insignificant compare to manufacturing facilities.</p>
Findings	No findings raised.
Conclusion	The project activity displaces fossil fuel consumption and provides affordable and clean energy. The project has also avoided total 57077 tCO ₂ 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/19/.

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/ and MR/10/18/.</p> <p>The legal owner of the project activity has been identified through the commissioning certificates/14/ and power purchase agreement/12/ of the hydro power project.</p>
Findings	No findings raised.
Conclusion	The project verification team confirms that the legal ownership of the project belongs to M/s Sunshine Hydro Power Limited

3.7 Others (Double Counting of Credits)

Means of Project Verification	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. It is found that Project is a CDM registered project under the project ID 5504 ³ with the version 15 of the applied methodology. The project was registered at CDM on 13 December
--------------------------------------	---

³ <https://cdm.unfccc.int/Projects/DB/RWTUV1323729355.13/view>

	2011 with fixed crediting period of 10 years (from 13 December 2011 to 12 December 2021) and It is confirmed that the project was not submitted or registered for verification under CDM or any other GHG programmes and non-voluntary non-GHG Programs. 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/.
Findings	CL 04 was raised
Conclusion	Double accounting agreement/8/ is signed between PO and Aggregator dated and found to appropriate as per Universal Carbon Registry Program Manual (Ver 6.1) August 2024/1/.

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 Project Standard (General project eligibility criteria and guidance)/2/, UCR Verification standard /3/, AMS -I.D. Version 18.0 /4/, Project Concept Note (PCN)/9/, Power purchase agreement/12/, Commissioning Certificates/14/, DPR/15/, Calibration Reports/16/, Monitoring Report (MR)/18/ and other documents mentioned in Appendix-2.

The verification team raised 04 Nos. of Clarification Requests (CLs) and 05 Nos. of Corrective Action Request. All the queries were closed satisfactorily.

It is hence certified with a reasonable level of assurance that the emission reductions from the project Hydro Power Project by M/s Sunshine Hydro Power Limited (UCR ID – 064) for the period 17/10/2014 to 31/12/2023 amounts to **57077** CoUs (57077 tCO₂e) 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.	Mandliya	Shyam	Team Leader & Technical Expert - 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
HPSEBL	Himachal Pradesh State electricity board
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
DPR	Detailed Project Report
ER	Emission Reduction
FAR	Forward Action Request
GHG	Green House Gas
JMR	Joint Meter Reading
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
SHEP	Kalm small hydroelectric power
SHPL	Sunshine Hydro Power Limited
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 CoU Standard (General project eligibility criteria and guidance)	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 18.0 dated December 2022	-
7.	PO	Communication agreement between PP and PO	Dated 18/12/2021	PA
8.	Creduce	Double Accounting Agreement	04/10/2024	PA
9.	Creduce	Project concept note	Version 1.0, dated 01/01/2022	PA
10.	Creduce	Monitoring report	Version 1.0, dated 09/09/2024	PA
11.	Creduce	Emission reduction excel – “2 MW Small Scale Hydro Power Project by M/s Sunshine Hydro Power Limited”	Version 1.0, dated 09/09/2024	PA
12.	HPSEBL & PO	Power purchase agreement	Dated 23/04/2015	PA
13.	HPSEBL & PO	JMR/Monthly Energy Bills	-	PA
14.	HPSEBL	Certificate of Commissioning	Dated 24/10/2014	PA
15.	PO	DPR – Technical specification	Dated September 2002	PA
16.	Power Grid Corporation of India Ltd.	<ul style="list-style-type: none"> Calibration of 13193420 dated 24/10/2016 Calibration of 13193496 dated 24/10/2016 	-	PA

		<ul style="list-style-type: none"> • Calibration of 13193496 dated 04/05/2022 • Calibration of 13193420 dated 04/05/2022 		
17.	PO	Single Line Diagram	-	PO
18.	Creduce	Project Concept Note	Version 2.0 dated 07/10/2024	PA
19.	Creduce	Monitoring report	Version 2.0 dated 07/10/2024	PA
20.	CPCB	CPCB	<i>CPCB letter F.No.B-29012/IPC-VI/2017-18/ date 17/11/2017</i>	-

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

Table 1. CLs from this Project Verification

CL ID	01	Section no.: 3.1	Identification and eligibility of project type	Date: 01/10/2024
Description of CL				
<i>In the Section B.1.2 of MR V1.0 dated 09/09/2024, Kindly provide single line diagram of the project site to establish connection with national grid as per Clause 2 of applied methodology AMS-I. D V.18.0 and the UCR CoU Standard version 7.0</i>				
Project Owner's response				Date: 05/10/2024
<i>Single line diagram of the Project site has been provided in the section B 1.2 of the MR V1.0</i>				
Documentation provided by Project Owner				
<i>Single line diagram</i>				
UCR Project Verifier assessment				Date: 09/10/2024
<i>PP has incorporated the single line diagram in the Section B.1.2 of the MR V1.0 which is found as per the requirements of the Clause 2 of applied methodology AMS-I. D V. 18.0 and the UCR CoU Standard version 7.0. Hence, it is found correct to the Assessment team.</i>				
<i>Thus, CL 01 is closed.</i>				

CL ID	02	Section no.: 3.3.6	Monitoring report	Date: 01/10/2024
Description of CL				
<i>In the Section B.1.2 of the MR V1.0 dated 09/09/2024, kindly provide the technical specification documents of the hydro project activity with respect to Methodology and as per the requirements of the UCR CoU Standard version 7.0</i>				
Project Owner's response				Date: 05/10/2024
<i>Technical specification document of the hydro project activity has been submitted to the assessment team.</i>				
Documentation provided by Project Owner				
<i>Technical specification document</i>				
UCR Project Verifier assessment				Date: 09/10/2024

PP has submitted in the Technical specification document dated September 2002 which is found as per the requirements of the applied methodology AMS-I. D V.18.0 and the UCR CoU Standard version 7.0. Hence, it is found correct to the Assessment team.

Thus, CL 02 is closed

CL ID	03	Section no.: 3.3.2	Clarification on applicability of Methodology	Date: 01/10/2024
Description of CL				
<i>In the Section C.2 of MR V1, kindly clarify how 5th applicability criteria of Methodology is applicable as per requirement of the Clause 2.2 of applied methodology AMS-I.D.18.0. and the UCR CoU Standard version 7.0</i>				
Project Owner's response				Date: 05/10/2024
<i>In the Section C.2 of MR V2.0, as hydro power project consists of the renewable power project component only whose limit is below the 15 MW so 5th applicability criteria of Methodology AMS-I.D. 18.0 is not applicable to this project activity.</i>				
Documentation provided by Project Owner				
<i>MR V2.0 dated 07/10/2024</i>				
UCR Project Verifier assessment				Date: 09/10/2024
<i>Assessment team found the Project owner's response correct. PP has updated the 5th applicability criteria of AMS-I.D.18.0 in the Section C.2 of MR V2.0 as per the requirements of the UCR CoU Standard version 7.0.</i>				
<i>Thus, CL 03 is closed</i>				

CL ID	04	Section no.: 3.7	Others (Double counting of credits)	Date: 01/10/2024
Description of CL				
<i>Under the Section C.3, MR V1.0 dated 09/09/2024, PP shall provide Declaration document stating that the project activity will not participate in other GHG program which causes double counting for the current monitoring period 17/10/2014 to 31/12/2023 as per requirement of clause 1.8, Universal Carbon Registry Program Manual (Ver 6.1) August 2024 and the UCR CoU Standard version 7.0.</i>				
Project Owner's response				Date: 05/10/2024
<i>Double Counting Declaration stating that the project activity will not participate in other GHG program which causes double counting for the current monitoring period 17/10/2014 to 31/12/2023 has been submitted to the Assessment team.</i>				

Documentation provided by Project Owner	
<i>Double Counting Declaration for not participating in the other GHG Program</i>	
UCR Project Verifier assessment	Date: 09/10/2024
<p><i>Assessment team found that Double Counting Declaration dated 04/10/2024 will not participate in other GHG program which causes double counting for the current monitoring period 17/10/2014 to 31/12/2023. Also, it is found correct as per requirement of clause 1.8, Universal Carbon Registry Program Manual (Ver 6.1) August 2024 and the UCR CoU Standard version 7.0.</i></p> <p><i>Thus, CL 04 is closed</i></p>	

Table 2. CARs from this Project Verification

CAR ID	01	Section no.: 3.3.6	Monitoring Report	Date: 01/04/2024
Description of CAR				
<i>On the cover page of the MR V1.0 dated 09/09/2024, Kindly check the inserted project picture as the requirements of “the UCR CoU Standard version 7.0. PP requested to maintain consistency in font throughout the MR V1.</i>				
Project Owner’s response				Date: 05/10/2024
<i>Updated hydro power project picture on the cover page of the MR V2.0 dated 07/10/2024 .The font has been updated throughout the Monitoring report.</i>				
Documentation provided by Project Owner				
<i>MR V2.0 dated 07/10/2024</i>				
UCR Project Verifier assessment				Date: 09/10/2024
<p><i>PP has updated the 2MW hydro power plant project picture on the cover page of the MR V2.0 dated 07/10/2024.Assessment team found the updated picture correct and which is as per the the requirements of “the UCR CoU Standard version 7.0.</i></p> <p><i>Thus, CAR 01 is closed</i></p>				

CAR ID	02	Section no.: 3.3.6	Monitoring Report	Date: 01/10/2024
Description of CAR				
<i>Electricity generation value mentioned for the current monitoring period in the Section B.2 of the MR V1 is not consistent with other sections of the MR and ER sheet as per the “UCR CoU Standard version 7.0. Thus, Corrective action sought.</i>				
Project Owner’s response				Date: 05/10/2024

Electricity generation value mentioned for the current monitoring period in Section B.2 of the MR V2 is now consistent with other sections of the MR and ER sheet.

Documentation provided by Project Owner

MR V2.0 dated 07/10/2024

UCR Project Verifier assessment

Date: 09/10/2024

PP has updated the Electricity generation value for the current monitoring period in the section B.2 of the MR V2 which is now consistent with other sections of the MR and ER sheet. Updated electricity generation value is found correct as per the "UCR CoU Standard version 7.0.

Thus, CAR 02 is closed

CAR ID	03	Section no.: 3.3.6	Monitoring Report	Date: 01/10/2024
Description of CAR				
<i>In Section C.5.1, MR V1.0 dated 09/09/2024, PP has mentioned BE (tCO₂e) for the period of 2021 to 2022, It is required for the complete monitoring period year (17/10 /2014 to 31/12/2023) as per the UCR CoU Standard version 7.0</i>				
Project Owner's response				Date: 05/10/2024
<i>Now BE (tCO₂e) for the complete monitoring period from 17/10/2014 to 31/12/2023.</i>				
Documentation provided by Project Owner				
<i>MR V2.0 dated 07/10/2024</i>				
UCR Project Verifier assessment				Date: 09/10/2024
<i>PP has updated the BE (tCO₂e) for the complete monitoring period from 17/10 /2014 to 31/12/2023 which is found correct as per the requirements of the UCR CoU Standard version 7.0.</i>				
<i>Thus, CAR 03 is closed</i>				

CAR ID	04	Section no.: 3.3.5	Estimation of emission reduction or net Anthropogenic removal	Date: 01/10/2024
Description of CAR				
<i>In section C.10 of the MR V1, Data and parameters (ex-ante values) i.e. density of diesel : P, the Net calorific value of diesel: NCV, CO₂ emission factor of diesel : EF CO₂,diesel,y and Data and parameters (ex-post values) i.e Diesel consumption by the standby DG set in year y i.e DCy are found missing in the MR V1 which are not consistent with the Section B.9 of the PCN as per the UCR CoU Standard version 7.0.</i>				
Project Owner's response				Date: 05/10/2024
<i>In the section C.10 of the MR V2, Data and parameters: ex-ante values and ex-post values are updated which are now in line with the Section B.9 of the PCN.</i>				
Documentation provided by Project Owner				
<i>MR V2.0 dated 07/10/2024</i>				
UCR Project Verifier assessment				Date: 09/10/2024
<i>PP has updated the Data and parameters: ex-ante values and ex-post values mentioned in the section C.10 of the MR V2 are updated which are found now in line with the Section B.9 of the PCN and as per the requirements of UCR CoU Standard version 7.0. Hence ,it is found correct to the Assessment team.</i>				
<i>Thus, CAR 04 is closed.</i>				

CAR ID	05	Section no.: 3.3.5	Estimation of emission reduction or net Anthropogenic removal	Date: 01/10/2024
Description of CAR				
<i>In the Section C.10, MR V1.0 dated 09/09/2024, Energy meter and its calibration details are incomplete in the monitoring plan as per the requirements mentioned in Clause 6 AMS-I D -V 18.0 and UCR CoU Standard V. 7.0, page 15. Also submit the calibration certificates for the complete Monitoring period (17/10/2014 to 31/12/2023).</i>				
Project Owner's response				Date: 05/10/2024
<i>In the Section C.10, MR V2.0 dated 07/10/2024, Energy meter and its calibration details are now complete in the monitoring plan as per the requirements mentioned in Clause 6 AMS-I D -V 18.0 and UCR CoU Standard V.7.0, page 15.</i>				
Documentation provided by Project Owner				
<i>Calibration certificate of the energy meter</i>				
UCR Project Verifier assessment				Date: 09/10/2024

PP has updated the Energy meter and its calibration details in the in the monitoring plan, Section C.10, MR V2.0 dated 07/10/2024 which is found correct as per the requirements mentioned in Clause 6 AMS-I D -V 18.0 and UCR CoU Standard V.7.0, page 15.

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 on 30/09/2024



