

# NATURELINK SOLUTIONS PRIVATE LIMITED

REG.OFFICE: H. NO. 6/121/1A, PLOT NO. G-1, VAIRAGI NI WADI, NEAR DELHI GATE SURAT – 395007  
Email: [audit@thenaturelink.in](mailto:audit@thenaturelink.in)

## Verification Report UCR ID:268



<b>Title</b>	<b>1.2 MW Small Scale Hydro Power Project by M/s Flowgen Renewable Energy Pvt. Ltd.</b>
<b>Project Owner</b>	<b>M/s Flowgen Renewable Energy Pvt. Ltd.</b>
<b>Project Location</b>	<b>Village : Suma Ropa, Dist. Kullu, Himachal Pradesh, India 32°00'20.8"N 77°17'24.6"E</b>
<b>Auditor</b>	<b>Mr. Shardul Amin, Lead Verifier, Email: <a href="mailto:audit@thenaturelink.in">audit@thenaturelink.in</a>, Contact: +91- 7574804497, Naturelink Solutions Pvt. Ltd.</b>
<b>Date</b>	<b>28/01/2023</b>

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<b>COVER PAGE</b>	
<b>Project Verification Report Form (VR)</b>	
<b>BASIC INFORMATIONS</b>	
<b>Name of approved UCR Project Verifier / Reference No.</b>	Naturelink Solutions Pvt Ltd
<b>Type of Accreditation</b>	<input type="checkbox"/> CDM Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> UCR Approved Verifier
<b>Approved UCR Scopes and GHG Sectoral scopes for Project Verification</b>	Sectoral Scope: 01 Energy Industries
<b>Validity of UCR approval of Verifier</b>	May-2022 onwards
<b>Completion date of this VR</b>	28/01/2023
<b>Title of the project activity</b>	1.2 MW Small Scale Hydro Power Project by M/s Flowgen Renewable Energy Pvt. Ltd..
<b>Project reference no. (as provided by UCR Program)</b>	268
<b>Name of Entity requesting verification service</b> (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	Creduce Technologies Pvt. Ltd.
<b>Contact details of the representative of the Entity, requesting verification service</b> (Focal Point assigned for all communications)	Creduce Technologies Pvt. Ltd, Contact: +91-9016850742 Address: 2-O-13,14 Housing Board Colony, Banswara, Rajasthan - 327001, India.
<b>Country where project is located</b>	India
<b>Applied methodologies</b> (Approved methodologies by UCR Standard used)	AMS-I.D.: "Grid connected renewable electricity generation", version 18
<b>Project Verification Criteria:</b> Mandatory requirements to be assessed	<input checked="" type="checkbox"/> UCR Standard <input checked="" type="checkbox"/> Applicable Approved Methodology <input type="checkbox"/> Applicable Legal requirements /rules of host country



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	<input checked="" type="checkbox"/> Eligibility of the Project Type <input checked="" type="checkbox"/> Start date of the Project activity <input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology <input checked="" type="checkbox"/> Credible Baseline <input checked="" type="checkbox"/> Do No Harm Test <input checked="" type="checkbox"/> Emission Reduction calculations <input checked="" type="checkbox"/> Monitoring Report <input checked="" type="checkbox"/> No GHG Double Counting <input type="checkbox"/> Others (please mention below)
<b>Project Verification Criteria:</b> Optional requirements to be assessed	<input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria <input type="checkbox"/> Social Safeguards Standard do-no-harm criteria
<b>Project Verifier's Confirmation:</b> The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:	Mr. Shardul Amin, the lead verifier of the Naturelink Solutions Pvt Ltd (UCR approved) has verified the UCR Project Activity "1.2 MW Small Scale Hydro Power Project by M/s Flowgen Renewable Energy Pvt. Ltd. <input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the Project Concept Note 2.0 (dated 25/01/2023) including the applicability of the approved methodology A.M.S I. D 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

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	<p>reductions amounting to the estimated 7675 tCO<sub>2</sub>e, as indicated in the PCN, 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> <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.</p>
<b>Project Verification Report, reference number and date of approval</b>	Verification Report UCR Project ID: 268 Date: 28/01/2023
<b>Name of the authorised personnel of UCR Project Verifier and his/her signature with date</b>	  Mr. Shardul Amin, Lead Verifier, Naturelink Solutions Pvt. Ltd Date : 28/01/2023

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## Project Verification Report

### A. Executive Summary

The verification work has been contracted by project aggregator Creduce Technologies Pvt Ltd to perform an independent verification of its UCR project titled “**1.2 MW Small Scale Hydro Power Project by M/s Flowgen Renewable Energy Pvt. Ltd. UCR approved project ID:268**”, to establish number of CoUs generated by the project over the crediting period from 11/01/2021 to 31/12/2022 (both days included).

Verification for the period : 11/01/2021 to 31/12/2022

In my opinion, the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report (MR), submitted to me is found to be correct and in line with the UCR guidelines.

The GHG emission reductions were calculated on the basis of UCR Protocols which draws reference from, Standard Baseline, AMS.I-D – Grid connected renewable electricity generation (Version 18.0). The verification was done remotely by way of video calls, phone calls and submission of documents for verification through emails as per UCR guidelines.

I am able to certify that the emission reductions from the 1.2 MW Small Scale Hydro Power Project by M/s Flowgen Renewable Energy Pvt. Ltd., UCR (UCR ID – 268) for the period 11/01/2021 to 31/12/2022 amounts to **7675 CoUs (7675 tCO<sub>2e</sub>)**.

### 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. The quality of data management and records of underlying data;
2. Completeness and accuracy of calculations and baseline emission reports;
3. Proper inclusion and documentation of all project locations,
4. Correct application of offset rules for filling baseline period data gaps;
5. Other data, methods, and procedures deemed necessary to establish the accuracy of emission reductions.
6. Agreement stating Assurance to avoid double accounting for the project to be verified, along with required proof.

The project is assessed against the requirements of the UCR programme verification Guidance Document, UCR Standard, UCR Programme Manual and related rules and guidelines. 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 project is not part of the present assignment and projects deemed validated post-registration by UCR.

### Description of the Project

The project consists of a hydro turbine having an installed capacity of 1.2 MW. The net generated electricity from the project activity is sold to state electricity board i.e., Himachal Pradesh State Electricity Board Ltd. (HPSEBL) under the Power Purchase Agreement (PPA). It is a run of river scheme on Jail Nallah a tributary of the Parbati river in Kullu Sub-division of

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Kullu district Himachal Pradesh. The stream originated from an altitude of 3519 meters. The catchment area of Jail Small Hydro Project above the proposed weir site is 6.31 Sq. Km. The area on both sides of the Stream is hilly with steep slopes. For the diversion of jail nallah inflows, a trench weir is proposed at El  $\pm$  2050 m. The size of the weir has been proposed as 10 m long and 5.0 m wide to draw a design discharge of 0.37cumecs. The project activity aims to harness the kinetic energy of water (a renewable source) to generate electricity.

The Pelton wheel turbine was installed which is suitable for high head low discharge conditions. The details of the project activity are verified with the project report copy submitted for verification.

As mentioned in the monitoring report and emission reduction calculation sheet submitted for verification, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be approximately **7675 tCO<sub>2</sub>e** for the said period under verification, there on displacing **8528 MWh** amount of electricity from the generation mix of power plants connected to the Indian electricity grid, which is mainly dominated by the fossil-fuel based power plant.

The project activity is a grid-connected renewable energy generation project having a capacity of less than 15 MW. The project is a small-scale activity. The methodology applied in the monitoring report is verified against the A.M.S I. D “Grid connected renewable electricity generation” version 18.0.

Verified total emission reductions achieved through the project activity during the monitoring period is summarised below:

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

Start date of this Monitoring Period	11/01/2021
Carbon credits claimed up to	31/12/2022
Total ERs generated (tCO <sub>2</sub> eq)	7675 tCO <sub>2</sub> e
Project Emission	0
Leakage Emission	0

## B. Project Verification team, technical reviewer and approver:

No.	Role	Last name	First name	Affiliation	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Lead Verifier & Technical Expert	Amin	Shardul	Naturelink Solutions Pvt Ltd. (UCR authorised verifier)	Yes	No	Yes

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## C. Means of Project Verification

### C.1 Desk/document review

The project documents submitted to UCR approved verifier Naturelink Solutions Pvt. Ltd., was reviewed by the technical expert and verified by the lead verifier. The documents reviewed include verification of the legal status of individual project owner for consistency, project-related documents like installation and commissioning of equipment used in project activity, environmental clearances from state or Central Pollution Control Board (CPCB), monitoring related parameters including measuring instruments and their calibration records for the crediting period, etc.

The PCN is made available to the verifier post approval by UCR which is considered as validated documents and the content of validated PCN is considered a record wherever required. Further, the communication agreement made between the project owner and project aggregator is a document of the UCR registry hence the project aggregator is treated as an authorized representative of the project owner. All the documents submitted by the project aggregator to the verifier are treated as documents submitted on behalf of the project owner.

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

### C.2 On-Site inspection- Not applicable.

Date of off-site inspection: DD/MM/YYYY to DD/MM/YYYY	Not applicable as per UCR guideline site visit not conducted for this verification activity.		
No.	Activity performed Off-Site	Site location	Date
1.			

### C.3 Interviews: Not applicable

As per UCR guideline the site visit was not conducted during the course of verification and only online interviews are conducted.

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Rai	Sandish	Project In-charge, M/S Flowgen Renewable Energy Pvt. Ltd	25/01/2023	Meter calibration, project overview, Commissioning Date, etc.

### C.4 Sampling approach: Not applicable

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## C.5 Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
<b>Green House Gas (GHG)</b>			
Identification and Eligibility of project type	NIL	NIL	NIL
General description of project activity	1	NIL	NIL
Application and selection of methodologies and standardized baselines	--	--	--
- 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
Others (please specify)	NIL	NIL	NIL
<b>Total</b>	1	NIL	NIL

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## D. Project Verification findings

### D.1 Identification and eligibility of project type

<b>Means of Project Verification</b>	Project has taken reference of CDM methodology AMS-I D, version 18 Grid Connected Renewable Electricity Generation,DPR
<b>Findings</b>	<ol style="list-style-type: none"><li>1. Project activity is described through UCR-approved PCN.</li><li>2. UCR project communication agreement clearly defines the Project Proponent and Project Aggregator.</li></ol>
<b>Conclusion</b>	<p>It is a greenfield hydropower project supplies the electricity to the national grid.</p> <p>UCR project communication agreement was submitted to the verifier and the same has been verified. Methodology referenced and applied appropriately describing the project type. The eligibility of the project aggregator is verified using the UCR communication agreement, Project correctly applies the verification standard, UCR project standard, and UCR regulations.</p> <p>The project activity is overall meeting the requirements of the UCR Verification standard and UCR project standard.</p>

### D.2 General description of project activity

<b>Means of Project Verification</b>	The project activity involves the setting up of a run-of-river hydro power plant. The commissioning certificate and DPR are referred. The project capacity was verified through PPA, purchase order/ invoices of turbine and JMR provided. The power evacuation at the Substation is confirmed by the electricity generation sheet.
<b>Findings</b>	<p>CL-1 is raised as the PCN 1.0 submitted on UCR shows there is 2 turbines of 600 kw each were installed while the turbine photo and purchase invoice are of 1.2 MW single Pelton wheel turbine.</p> <ol style="list-style-type: none"><li>1. Project Commissioning date is mentioned in the commissioning certificate.</li><li>2. Turbine Capacity is the same as mentioned technical specifications.</li><li>3. Project implementation and sale of energy abide by the power purchase agreement.</li></ol>
<b>Conclusion</b>	<p>CL-1 is closed as the DPR has mentioned the two 600 kW turbines while during monitoring, the aggregator has discovered a single 1200 kW turbine was installed.</p> <p>The overall capacity still remains at 1.2 MW.</p> <p>The description of the project activity is verified to be true based on the review of PCN, MR, Commissioning Certificate, Purchase Order Copies and Technical Specification sheet.</p>

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## D.3 Application and selection of methodologies and standardized baselines

### D.3.1 Application of methodology and standardized baselines

<b>Means of Project Verification</b>	The project has taken the reference of CDM methodology A.M.S-I.D. CDM website is referred to check the latest version of the methodology. For the applicability mentioned in the PCN and MR, the commissioning certificate, DPR, and PPA documents were referred.
<b>Findings</b>	The methodology applied is applicable to the project activity.
<b>Conclusion</b>	The methodology applied is appropriate for meeting the requirements of UCR and its standardized baseline. The methodology version is correct and valid. The referenced methodology is applicable to project activity.

### D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

<b>Means of Project Verification</b>	The documents reviewed are A.M.S I. D “Grid connected renewable electricity generation” version 18, UCR Program standard, and UCR Verification Standard.
<b>Findings</b>	The emission factor (=0.9 tCO <sub>2</sub> /MWh) is taken as per the UCR standards.
<b>Conclusion</b>	The emission factor considered for the calculation of the emission reductions is verified with the UCR Program Standard. The total installed electrical energy generation capacity of the project equipment does not exceed 15 MW thus meeting the requirement of a small-scale project.

### D.3.3 Project boundary, sources and GHGs

<b>Means of Project Verification</b>	Letter from CPCB dated 07/03/2016 No. B-29012/ESS(CPA)/2015-16. PCN section B.4.
<b>Findings</b>	Project boundary is appropriately defined in PCN version 01 which is the physical and geographical site of a powerhouse.
<b>Conclusion</b>	The project boundary is correctly defined in the revised PCN version 01. GHG source correctly identified and reported. The project meets the requirements of the UCR project standard, Verification standard, and methodology requirements for a boundary, GHG source.

### D.3.4 Baseline scenario

<b>Means of Project Verification</b>	PCN Section B.5 and General Project Eligibility Criteria and Guidance, UCR Standard.
<b>Findings</b>	The declared information is correct and verified.

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<b>Conclusion</b>	The baseline scenario is appropriately described. The conservative value for emission is considered. The baseline scenario is in accordance with the UCR project verification standard and UCR project standard.
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## D.3.5 Estimation of emission reductions or net anthropogenic removal


<b>Means of Project Verification</b>	Joint Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard, page 4.																
<b>Findings</b>	None																
<b>Conclusion</b>	Emission reductions are correctly calculated. The instruments are calibrated and hence the emission reduction is reported correctly and meets the requirements of the UCR verification standard and UCR project standard.																
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Year</th> <th style="text-align: center;">EGpy (MWh)</th> <th style="text-align: center;">EFgrid,y</th> <th style="text-align: center;">CoUs</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>2021</b></td> <td style="text-align: center;">4089.12</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">3680</td> </tr> <tr> <td style="text-align: center;"><b>2022</b></td> <td style="text-align: center;">4439.02</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">3995</td> </tr> <tr> <td></td> <td style="text-align: center;"><b>Total CoUs</b></td> <td></td> <td style="text-align: center;"><b>7675</b></td> </tr> </tbody> </table>	Year	EGpy (MWh)	EFgrid,y	CoUs	<b>2021</b>	4089.12	0.9	3680	<b>2022</b>	4439.02	0.9	3995		<b>Total CoUs</b>		<b>7675</b>
Year	EGpy (MWh)	EFgrid,y	CoUs														
<b>2021</b>	4089.12	0.9	3680														
<b>2022</b>	4439.02	0.9	3995														
	<b>Total CoUs</b>		<b>7675</b>														

## D.3.6 Monitoring Report

<b>Means of Project Verification</b>	<p>Meter Calibration reports Joint Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard, page 4.</p> <p>Energy meters installed at the site:</p> <p style="text-align: center;"><b>main meter</b></p> <div style="text-align: center;">  </div> <p style="text-align: center;"><b>check meter</b></p>
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<b>Findings</b>	None								
<b>Conclusion</b>	<p>Meter testing reports are provided PP as listed below.</p> <table border="1" data-bbox="472 875 1195 981"> <thead> <tr> <th>Make</th> <th>Sr. No</th> <th>Calibration date</th> </tr> </thead> <tbody> <tr> <td>LT</td> <td>20004762</td> <td rowspan="2">23/09/2020</td> </tr> <tr> <td>LT</td> <td>20004763</td> </tr> </tbody> </table> <p>As per Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2019 clause 14 (i)-b “All Interface Meters shall be tested on-site using accredited test laboratory for routine accuracy testing at least once in five years and recalibrated if required.</p> <p>The Calibration reports are verified with the available serial number of meters. The errors are within permissible limits.</p> <p>Monitoring parameters as reported through MR adequately represents the parameters relevant to emission reduction calculation. The number of CoUs generation is calculated based on this accurately reported data. The calculation was done using an excel sheet where all the parameters are reported. The emission factor is as per UCR standards. Based on the monitoring report, emission reduction calculations are correctly calculated. The monitoring report meets the requirements of UCR project verification requirements.</p>	Make	Sr. No	Calibration date	LT	20004762	23/09/2020	LT	20004763
Make	Sr. No	Calibration date							
LT	20004762	23/09/2020							
LT	20004763								

## D.4 Start date, crediting period, and duration

<b>Means of Project Verification</b>	PCN and MR, JMRs, Commissioning certificate, Detailed Project Report, and PPA documents were referred.
<b>Findings</b>	None
<b>Conclusion</b>	<p>Start date of the project - 11/01/2021</p> <p>Crediting Period - 11/01/2021 to 31/12/2022</p>

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	The start date, crediting period and project duration is reported correctly in the PCN 2.0 and MR and this meets the requirements of the UCR verification standard and UCR project standard.
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## D.5 Positive Environmental impacts

<b>Means of Project Verification</b>	PCN
<b>Findings</b>	The declared information is correct and verified.
<b>Conclusion</b>	The positive environmental impact meets the requirement of the UCR verification standard and UCR project standard.

## D.6 Project Owner- Identification and communication

<b>Means of Project Verification</b>	PCN, Communication Agreement, MR, Commissioning certificate, Power Purchase Agreement.
<b>Findings</b>	The declared information is correct and verified.
<b>Conclusion</b>	<p>The project owner was identified through communication agreement signed between PP and PA. Equipment purchase order and commission verified. Also, legal document like Power Purchase Agreement clearly establishes the project owner. The identification and communication correctly meet the requirement of project verification and UCR project standard.</p> <p>Details of Project Owner;</p> <p>M/s Flowgen Renewable Energy Pvt. Ltd. Address: 137, Pritam Nagar, Tehsil-Battiyata, District- Kangra, Himachal Pradesh-176001</p>

## D.7 Positive Social Impact

<b>Means of Project Verification</b>	Project has provided temporary employment to local people during its installation and commissioning. Also post commissioning some of people have employed permanently and local people were engaged leading to social financial benefit to surrounding. Overall social impact of project implementation is positive on the surrounding area.
<b>Findings</b>	--
<b>Conclusion</b>	Project has overall positive social impact.

## D.8 Sustainable development aspects (if any)

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<b>Means of Project Verification</b>	Not Applicable
<b>Findings</b>	--
<b>Conclusion</b>	The project addresses SDG 7 Affordable and Clean Energy and SDG 13 Climate Action.

## E. 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 aggregator or project owner directly or indirectly.
- Verification team consists of experience personnel.
- Technical review is performed by experienced and independent person.

## F. Project Verification opinion:

Considering the above-mentioned verification conducted on the basis of UCR Protocol, which draws reference from UCR Protocol Standard Baseline, AMS.I. D – Grid connected renewable electricity generation (Version 18.0), the documents submitted during the verification including the data, Project Concept Note (PCN) / Monitoring Report (MR), I am able to certify that the emission reductions from the project - 1.2 MW Small Scale Hydro Power Project by M/s Flowgen Renewable Energy Pvt. Ltd. (UCR ID – 268) for the period 11/01/2021 to 31/12/2022 amounts to **7675 CoUs (7675 tCO<sub>2e</sub>)**.

## G. Abbreviations

Abbreviations	Full texts
UCR	Universal Carbon Registry
CPCB	Central Pollution Control Board
PGCIL	Power Grid Corporation of India Ltd.
HPSEBL	Himachal Pradesh State Electricity Board. Ltd.
MR	Monitoring report
PCN	Project Concept Note
VR	Verification Report
VS	Verification Statement
DAA	Avoidance of Double Accounting Agreement
COD	Commercial Operation Date
PP/PO	Project Proponent / Project Owner
PA	Project Aggregator
PPA	Power Purchase Agreement
DPR	Detailed Project Report
ER	Emission Reduction
CoUs	Carbon offset Units.
tCO <sub>2e</sub>	Tons of Carbon Dioxide Equivalent
kWh	Kilo-Watt Hour
MWh	Mega-Watt Hour
kW	Kilo-Watt

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MW	Mega-Watt
CDM	Clean Development Mechanism
SDG	Sustainable Development Goal
CAR	Corrective Action Request
CL	Clarification Request
FAR	Forward Action Request
GHG	Green House Gas
HEP	Hydro Electric Power

## H. Competence of team members and technical reviewers

No.	Last name	First name	Affiliation	Technical Competence
1.	Amin	Shardul	Lead Verifier, Naturelink Solution Pvt Ltd.	Mr. Shardul Amin is post graduate having M.tech in Thermal System Design with more than 5 years of experience in the field of waste to energy, thermochemical conversion technologies and emission study.

## I. Document reviewed or referenced

No.	Author	Title	Provider
1	UCR	Communication Agreement	PA
2	Creduce	Project Concept Note	PA
3	Creduce	Monitoring Report	PA
4	Creduce	Avoidance of double accounting	PA
5	Creduce	Emission Reduction Excel	PA
6	HPSEBL	JMR (2021- 2022)	PA
7	Yash Metrology Laboratory Pvt Ltd	Meter Calibration	PA
8	HPSEBL	PPA	PA
9	HPSEBL	Commissioning Certificate	PA
10	PP	DPR	PA
11	Pentflo Hydro Pvt Ltd	Purchase Invoice	PA

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## J. Clarification request, corrective action request and forward action request

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

CL ID	D.2	Section no. :	General description of the project activity	Date: 20/01/2023
<b>Description of CL</b>				
<i>Clarify the capacity of the turbines installed?</i>				
<b>Project Owner's response</b>				Date: 23/01/2023
<i>There was 1.2 MW Pelton wheel turbine installed at project site.</i>				
<b>Documentation provided by Project Owner</b>				
<i>Purchase invoice and turbine nameplate photos</i>				
<b>UCR Project Verifier assessment</b>				Date: 28/01/2023
<i>The document clearly justifies the single turbine of 1.2 MW capacity</i>				

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

CAR ID	xx	Section no. :	Date:
<b>Description of CAR</b>			
<b>Project Owner's response</b>			Date:
<b>Documentation provided by Project Owner</b>			
<b>UCR Project Verifier assessment</b>			Date:

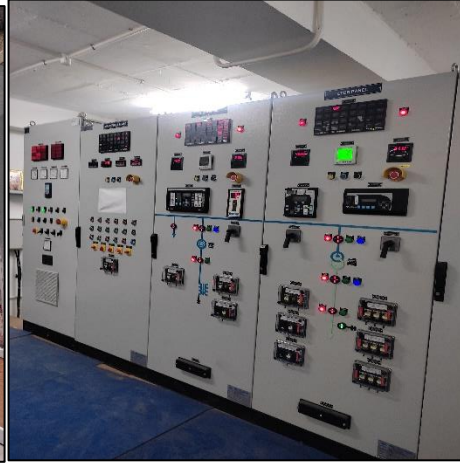
**Table 3. FARs from this Project Verification**

FAR ID	xx	Section no.	Date: DD/MM/YY YY
<b>Description of FAR</b>			
<b>Project Owner's response</b>			Date: DD/MM/YY YY
<b>Documentation provided by Project Owner</b>			
<b>UCR Project Verifier assessment</b>			Date: DD/MM/YY YY

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## ANNEXURE I: Photographs of the power plant



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Figure - 1 - Project activity photos

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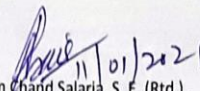
REG.OFFICE: H. NO. 6/121/1A, PLOT NO. G-1, VAIRAGI NI WADI, NEAR DELHI GATE SURAT – 395007  
 Email: audit@thenaturelink.in

Annexure-I

**CERTIFICATE OF INDEPENDENT ENGINEER**

It is certified that Commissioning and Performance test of 1.20 MW. Jail SHEP developed by M/s Flowgen Renewable Energy Pvt. Ltd. Village Suma Ropa, P.O. Jari, District Kullu HP (IPP) were carried out by the IPP on dated 11.01.2021 in my presence and witnessed by HPSEB Ltd. Engineers. The plant has been synchronized with HPSEB Ltd. grid and checked for its Performance which is found generally in order. The Capacity test could not be carried out due to insufficient discharge & inadequate storage.

Therefore, 1.20 MW. Jail SHEP is hereby declared to be ready for commercial operation w.e.f. 11-01-2021 (A.N.). The Capacity shall be carried out by the IPP and witnessed by S.E (Design) HPSEBL Sunder Nagar during peak generation period & shall be informed to all concerned.

  
 Er. Ram Chand Salaria, S. E. (Rtd.),  
 Independent Engineer,  
 Flat no. 624 (TF), Palm Residency,  
 P.O. Mullanpur Gribdass,  
 New Chandigarh (Pb.)- 140901.

Annexure-II

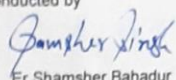
Dated 11-01-2021

**LOAD THROW AND EMERGENCY TRIP TESTS CARRIED OUT ON UNIT OF JAIL SHEP (1 X 1.2 MW)**


Sr. No.	Load (KW)	Nozzle opening (%)		Speed rise (RPM) #			Pressure rise (kg/cm <sup>2</sup> ) \$			Remarks
		N-1	N-2	Initial	Final	Rise (%)	Initial	Final	Rise (%)	
1.	300	24.5	0	1000	1020	2	39.0	39.8	2.05	Emergency Trip
1.	306	25	0	998	1022	2.4	39.0	40.0	2.56	Generator Breaker Tripped
2.	595	25.4	20.7	1000	1045	4.5	39.0	42.5	8.97	Generator Breaker Tripped
3.	815	38.4	29.9	1000	1056	5.6	38.5	42.8	11.16	Generator Breaker Tripped
4.	623	25.2	22.5	1002	1053	5.08	39.5	42.5	7.59	Line Breaker Tripped

# Guaranteed Maximum Speed Rise = 35%

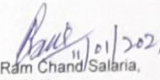
\$ Guaranteed Maximum Pressure Rise = 30%

Conducted by  
  
 1. Er. Shamsheer Bahadur  
 Manager (Elect)  
 Pentaallo

2. Sandish Kumar  
 Plant Manager  
 Flowgen Renewable Energy,  
 (P) Ltd.

Witnessed by  
  
 1. Er. Ashwini Thakur,  
 Sr. Xen(E),  
 O/o \$ E (Designs)  
 HPSEB Ltd. Sundernagar

2. Er. Ayush Minhas  
 Sr. Xen., (OP)  
 Electrical Division,  
 HPSEB Ltd. Kullu

In the Presence of  
  
 Er. Ram Chand/Salaria,  
 S. E. (Rtd.),  
 Independent Engineer.

**Figure - 2 - Date of grid synchronization**