

## Verification Report for

### UCR ID No. 428

DESCRIPTION	DATA
<b>Project Owner Name :</b>	<b>M/s Ayyappa Hydro Power Limited</b>
<b>Project Location :</b>	PO Karikkayam, Chittar
	Rani Pathanamthitta 689663
	9°20'07.4"N , 76°53'59.5"E
<b>Project Aggregator:</b>	Energy Advisory Services Pvt Limited - Bangalore - Karnataka.
<b>Scale of the project activity</b>	Small Scale
<b>Date</b>	27 <sup>th</sup> May -2024

DESCRIPTION	DATA
<b>Verification Firm:</b>	<b>Limbaja Energy</b>
	2 Shrijinagar, Arihantnagar Road,
	Nr. Aashapura cottages,
	Bhuj-Kachchh-370001
	M : 9714253756
	limbajaenergy@gmail.com
<b>Team Details:</b>	Mr. Jayprakash Jethi
	Mr. Tamizahmed Rayma

<b>COVER PAGE</b>	
<b>Project Verification Report Form (VR)</b>	
<b>BASIC INFORMATION</b>	
<b>Name of approved UCR Project Verifier / Reference No.</b>	<b>Limbaja Energy</b>
<b>Type of Accreditation</b>	<input type="checkbox"/> CDM or other GHG <input type="checkbox"/> Accreditation ISO 14065 Accreditation  <input checked="" type="checkbox"/> UCR Approved
<b>Approved UCR Scopes and GHG Sectoral scopes for Project Verification</b>	01 Energy industries (Renewable/Non-renewable sources)
<b>Validity of UCR approval of Verifier</b>	Aug-2022 onwards
<b>Completion date of this VR</b>	27 <sup>th</sup> May 2024
<b>Title of the project activity</b>	<b>15 MW Karikayam Small Hydro Power Project at Ayyappa Hydro Power Limited by Energy Advisory Services Pvt Ltd</b>
<b>Project reference no.</b>	428

(as provided by UCR Program)	
<b>Name of Entity requesting verification service</b> (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	Energy Advisory Services Pvt Limited - Bangalore - Karnataka.
<b>Contact details of the representative of the Entity, requesting verification service</b> (Focal Point assigned for all communications)	<b>Energy Advisory Services Pvt Limited - Bangalore - Karnataka.</b> <a href="mailto:nikhil@easpl.co.in">nikhil@easpl.co.in</a> 98673 67719
<b>Country where project is located</b>	India
<b>Applied methodologies</b> (approved methodologies by UCR Standard used)	<b>AMS-I.D.:</b> “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 <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><b>Project Verification Criteria:</b> 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><b>Project Verifier's Confirmation:</b> The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:</p>	<p>The UCR Project Verifier <b>Limbaja Energy</b> certifies the following with respect to the UCR Project Activity <b>“15 MW Karikayam Small Hydro Power Project at Ayyappa Hydro Power Limited by Energy Advisory Services Pvt Ltd”</b></p> <input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the Project Concept Note Version 1.0 (dated 18 <sup>th</sup> Mar 2024) including the applicability of the approved methodology <b>AMS-ID.:</b> Grid connected renewable electricity generation version-18 & UCR Standard for Emission Factor and meets the methodology applicability

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conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively.

The Project Activity is likely to generate GHG emission reductions amounting to the estimated [3,42,982] TCO<sub>2e</sub>, as indicated in the PCN Version 1.0, 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.



The Project Activity is not likely to cause any net-harm to the environment and/or society

The Project Activity complies with all the applicable UCR rules<sup>1</sup> and therefore recommends UCR Program to register the Project activity with above mentioned labels.

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<p><b>Project Verification Report, reference number and date of approval</b></p>	<p>Verification Report UCR Project ID: 428</p>
<p><b>Name of the authorised personnel of UCR Project Verifier and his/her signature with date</b></p>	<p>Limbaja Energy</p>  <p><i>Jethi J.P.</i></p> <p>Jayprakash Jethi (Lead Verifier and Energy Auditor) 27/05/2024</p>  <p>Tamizahmed Rayma (Energy Analyst and Verifier) 27/05/2024</p>

## PROJECT VERIFICATION REPORT

### A. Executive Summary

The verification work has been contracted by project aggregator Energy Advisory Services Pvt. Ltd. to perform an independent verification of its UCR project titled “15 MW Karikayam Small Hydro Power Project at Ayyappa Hydro Power Limited by Energy Advisory Services Pvt Ltd” UCR **approved project ID:428**, to establish number of CoUs generated by project over the crediting period from 29/08/2013 to 31/12/2023 (both days included).

#### Verification for the period: 29/08/2013 to 31/12/2023

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 **AMS-I.D.:** Grid connected renewable electricity generation version-18 & UCR Standard for Emission Factor

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 **15 MW Karikayam Small Hydro Power Project at Ayyappa Hydro Power Limited by Energy Advisory Services Pvt Ltd** (UCR ID – 428) for the period 29/08/2013 to 31/12/2023 amounts to 3,42,982CoUs (3,42,982 tCO<sub>2</sub>e).

### A.1 Scope of Verification

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 present assignment and projects deemed validated post registration by UCR.

### A.2 Description of the Project

As described in the Project Concept Note (PCN) Version 1.0, the project activity involves Hydro Power project of installed aggregated capacity of 15 MW Karikayam Small Hydro Power Project at Ayyappa Hydro Power Limited at: 9°20'07.4"N 76°53'59.5"E Karikkayam, Chittar Taluk: Rani, District Pathanamthitta, state Kerala (India). The project is an operational activity with continuous reduction of GHG, currently the details of the project activity are verified with the project report copy submitted for verification.



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As mentioned in the Monitoring Report and Emission Reduction Calculation sheet submitted for the verification, this project activity involves generation of grid connected electricity from the construction and operation of a new Hydro Generation Power project for selling it to State Electricity Grid and Private Party. The project activity has installed capacity of (3Nos. \* 5 MW) 15 MW which will qualify for a Small-scale project activity under Type-I of the small - Scale methodology. The project status is corresponding to the methodology **AMS-I.D.:** Grid connected renewable electricity generation version-18.

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

<b>Summary of the Project Activity</b>	
Start date of this Monitoring Period	29/08/2013
Carbon credits claimed up to	31/12/2023
Total Carbon Credit (tCO <sub>2</sub> eq)	3,42,982
Project Emission	0
Leakage Emission	0

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

SN	Role	Last name	First name	Affiliation	Involvement in		
					Document review	Off-Site inspection	Interviews
1	Lead Verifier and Energy Auditor	Jethi	Jayprakash	Limbaja Energy (UCR authorised)	Yes	No	Yes
2	Energy Analyst and Verifier	Rayma	Tamizahmed	Limbaja Energy	Yes	No	No

## C. Means of Project Verification

### C.1 Desk/document review

The project documents submitted to UCR approved verifier Limbaja Energy was reviewed and validated by the lead verifier. The documents reviewed includes verification of legal status of individual project owner for consistency, project related documents like installation and commissioning of equipment used in project activity, monitoring related parameters including measuring instruments and their calibration records for the crediting period etc.

The PCN version 1.0 is made available to verifier post approval by UCR which is considered as validated documents and the content of validated PCN Version 1.0 are considered as record wherever required. Further the communication agreement made between project owner and project aggregator is document of UCR registry hence the project aggregator is treated as authorized representative of project owner. All the documents submitted by project aggregator to verifier is treated as documents submission on behalf of project owner.

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

## C.2 Off-site inspection: Not Applicable

Date of off site inspection: DD/MM/YYYY to DD/MM/YYYY

No.	Activity performed Off-Site	Site location	Date
1.			
...			

## C.3 Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Sharma	Nitin Dutt	Director	25/05/2024	Meter calibration, Double Counting and project overview

## C.4 Sampling approach: Not Applicable

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

SN	Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
<b>Green House Gas (GHG)</b>				
1	Identification and Eligibility of project type	Nil	Nil	Nil
2	General description of project activity	Nil	Nil	Nil
3	Application and selection of methodologies and standardized baselines	-	-	-
	i) Application of methodologies and standardized baselines		Nil	Nil
	ii) Deviation from methodology and/or methodological tool	Nil	Nil	Nil
	iii) Clarification on applicability of methodology, tool and/or standardized baseline	Nil	Nil	Nil
	iv) Project boundary, sources and GHGs	Nil	Nil	Nil
	v) Baseline scenario	Nil	Nil	Nil
	vi) Estimation of emission reductions or net anthropogenic removals	Nil	Nil	Nil
	vii) Monitoring Report	Nil	Nil	Nil
4	Start date, crediting period and duration	Nil	Nil	Nil
5	Environmental impacts	Nil	Nil	Nil
6	Project Owner- Identification and communication	Nil	Nil	Nil
7	Others (please specify)	Nil	Nil	Nil
	<b>Total</b>	Nil	Nil	Nil

## D Project Finding

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

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	This Project is taken reference of CDM Methodology AMS-I.D.: “Grid connected renewable electricity” Version 18.0 Hydro Energy Projects.
2	<b>Findings</b>	1) Project activity is described through UCR approved PCN. 2) UCR project communication agreement clearly defines the Project Proponent and Project Aggregator.
3	<b>Conclusion</b>	The UCR approved format is used for description and project meets the requirement of UCR verification standard and UCR project standard. UCR project communication agreement submitted to verifier and the same has been verified. Methodology referenced and applied appropriately describing the project type. The eligibility of project aggregator is verified using UCR communication agreement, Project correctly applies the verification standard, UCR project standard and UCR regulations.  The project activity is overall meeting the requirements of UCR Verification standard and UCR project standard.

## D.2 General description of project activity

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	The project activity involves the setting up of a Hydro Turbine Generator Project. The commissioning certificate is referred. The project capacity was verified through purchase order invoices of turbine. The power evacuation at the Substation is confirmed by electricity generation sheet.
2	<b>Findings</b>	1. Project Commissioning date is mentioned in the commissioning certificate. 2. Hydro Turbine Generator Capacity is same as mentioned technical specifications. 3. Project implementation and sale of energy abide the Power Purchase Agreement.
3	<b>Conclusion</b>	The description of the project activity is verified to be true based on the review of PCN Version 1.0, MR, Commissioning Certificate, Purchase Order Copies and Technical Specification sheet.

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

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

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	This Project is taken reference of CDM Methodology AMS-I.D.: “Grid connected renewable electricity” Version 18.0. For the applicability mentioned in the PCN Version 1.0 and MR, Commissioning certificate, Detailed Project Report and PPA documents were referred.
2	<b>Findings</b>	The methodology applied is applicable for the project activity.
3	<b>Conclusion</b>	Methodology application is appropriate meeting the requirements of UCR and its standardized baseline. The methodology version is correct and valid. Referenced methodology is applicable to project activity.



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

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	The documents reviewed CDM Methodology AMS-I.D.: “Grid connected renewable electricity” Version 18.0. UCR Program standard, and UCR Verification Standard.
2	<b>Findings</b>	Emission factor calculated using the methodology is higher than UCR standard recommends.
3	<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 small-scale project.

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

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	Letter from Kerala Pollution Control Board dated 05/11/2018 Consent order No: PCB/PTA/ICO/1372/2013
2	<b>Findings</b>	Project boundary is appropriately defined in PCN version 1.0 which is physical and geographical site of power house.
3	<b>Conclusion</b>	Project boundary is in line with the applied methodology.

### D.3.4 Baseline scenario

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	PCN Section B.5 and General Project Eligibility Criteria and Guidance, UCR Standard.
2	<b>Findings</b>	Declared information is correct and verified.
3	<b>Conclusion</b>	Baseline scenario is appropriately described. The conservative value for emission considered. The baseline scenario is in accordance with UCR project verification standard and UCR project standard.

### D.3.5 Estimation of emission reductions or net anthropogenic removal

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	Export Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard
2	<b>Findings</b>	None
3	<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 UCR verification standard and UCR project standard.

### D.3.6 Monitoring Report

SN	Particular	Remarks						
1	<b>Means of Project Verification</b>	Meter Calibration reports, Export Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard						
2	<b>Findings</b>	None						
3	<b>Conclusion</b>	<p>Meter testing reports are provided            Meter details are mentioned below.            Energy meters installed at the site:            Customer Name.: M/s. Ayyappa Hydro Power Limited</p> <p><b>Main Meter:</b></p> <table border="1"> <tbody> <tr> <td><b>Make</b></td> <td>L &amp; T</td> </tr> <tr> <td><b>Serial No.</b></td> <td>19004579</td> </tr> <tr> <td><b>Calibration Date</b></td> <td>15-July-21</td> </tr> </tbody> </table>	<b>Make</b>	L & T	<b>Serial No.</b>	19004579	<b>Calibration Date</b>	15-July-21
<b>Make</b>	L & T							
<b>Serial No.</b>	19004579							
<b>Calibration Date</b>	15-July-21							



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.

The Calibration reports are verified with available serial number of meters. The errors are within permissible limits.

Monitoring parameter 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 excel sheet where all the parameters reported. The emission factor for electricity is as per UCR standard for. Monitoring and emission reduction calculations are correctly calculated and reported. The monitoring report meets the requirements of UCR project verification requirements

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

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	PCN Version 1.0 and MR, Commissioning certificate, Detailed Project Report and Power Purchase Agreement documents were referred.
2	<b>Findings</b>	None
3	<b>Conclusion</b>	The start date, crediting period and project duration reported correctly and this meets the requirements of UCR verification standard and UCR project standard.

## D.5 Positive Environmental impacts

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	PCN Version 1.0 were referred.
2	<b>Findings</b>	Declared information is correct and verified.
3	<b>Conclusion</b>	The positive environmental impact meets the requirement of UCR verification standard and UCR project standard

## D.6 Project Owner- Identification and communication

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	PCN Version 1.0, Communication Agreement, MR, Commissioning certificate, Power Purchase Agreement.
2	<b>Findings</b>	Declared information is correct and verified.
3	<b>Conclusion</b>	Project owner 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.

## D.7 Positive Social Impact

SN	Particular	Remarks
1	<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.
2	<b>Findings</b>	None
3	<b>Conclusion</b>	Project has overall positive social impact.

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

SN	Particular	Remarks
1	<b>Means of Project Verification</b>	PCN Version 1.0 were referred.
2	<b>Findings</b>	Declared information is correct and verified.
3	<b>Conclusion</b>	The Project addresses SDG 7 Affordable, SDG 8 Decent work and Economic Growth, 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, CDM UNFCCC Methodology AMS-I.D.: Grid connected renewable electricity generation version-18 & UCR Standard for Emission Factor and the documents submitted during the verification including the data, Project Concept Note (PCN) Version 1.0 / Monitoring Report (MR), I am able to certify that the emission reductions from the 15 MW Karikayam Small Hydro Power Project at Ayyappa Hydro Power Limited (UCR ID – 428) for the period 29/08/2013 to 31/12/2023 amounts to 3,42,982CoUs (3,42,982 tCO<sub>2e</sub>).

## Appendix 1. Abbreviations

SN	Abbreviations	Full texts
1	UCR	Universal Carbon Registry
2	KPCB	Kerala Pollution Control Board
3	PGCIL	Power Grid Corporation of India Ltd.
4	KSEB	Kerala State Electricity Board
5	MR	Monitoring report
6	PCN	Project Concept Note
7	VR	Verification Report
8	VS	Verification Statement
9	DAA	Avoidance of Double Accounting Agreement
10	COD	Commercial Operation Date
11	PP/PO	Project Proponent / Project Owner
12	PA	Project Aggregator
13	PPA	Power Purchase Agreement
14	WBA	Wheeling and Banking Agreement
15	ER	Emission Reduction
16	COUs	Carbon offset Units.
17	tCO <sub>2</sub> e	Tons of Carbon Dioxide Equivalent
18	kWh	Kilo-Watt Hour
19	MWh	Mega-Watt Hour
20	kW	Kilo-Watt
21	MWh	Mega-Watt
22	CDM	Clean Development Mechanism
23	SDG	Sustainable Development Goal
24	CAR	Corrective Action Request
25	CR	Clarification Request
26	FAR	Forward Action Request



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SN	Abbreviations	Full texts
27	GHG	Green House Gas

## Appendix 2. Competence of team members and technical reviewers

SN	Last name	First name	Affiliation	Technical Experience
1	Jethi	Jayprakash	Lead Verifier and Energy Auditor at Limbaja Energy	Mr. Jayprakash Jethi is post graduate having more than 7 years of experience in the field of Energy Audit, Energy conservation and emission study.

## Appendix 3. Document reviewed or referenced

SN	Author	Title	Provider
1	UCR	Communication Agreement	PA
2	Energy Advisory Services Pvt. Ltd.	Project Concept Note	PA
3	Energy Advisory Services Pvt. Ltd.	Monitoring Report	PA
4	Energy Advisory Services Pvt. Ltd.	Avoidance of double accounting	PA
5	Energy Advisory Services Pvt. Ltd.	Emission Reduction Excel	PA
6	KSEB	Meter Calibration	PA
7	KSEB	Electricity Export Bill	PA
8	KSEB	PPA	PA
9	KSEB	Commissioning Certificate	PA

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## Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CLs from this Project Verification

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

Table 2. CARs from this Project Verification

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

Table 3. FARs from this Project Verification

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

## Annexure 1: Photographs of Plant



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## Annexure 2: Commissioning certificate Unit 2 Hydro Power Generator

Synchronization of Unit 2<sup>nd</sup> Generator of 3x5MW Karikayam  
Hydroelectric project, Chittar village, Karikayam Post,  
Pathanamthitta District on 29-08-2013

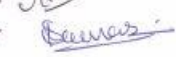
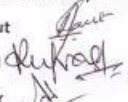
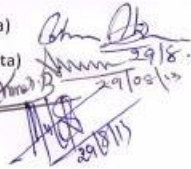
As per the approval accorded by the KSEB vide Order no: BO(FM) No. 1833/2013 (CP/Plg III/Karikayam) dated 26-08-2013 & Approval from CEIG vide order no: B1-10387/2011/CEI dated 11-07-2013, The unit 2<sup>nd</sup> generator of 3x5MW, Karikayam Hydroelectric project, has been synchronized on 29-08-2013 at 18:10 PM in the presence of The Deputy Chief Engineer (Generation, Moozhiyar). Also the following officials and company representatives were present during synchronization.

Executive Engineer (PM Division, Moolamattam)  
Executive Engineer (Transmission, Pathanamthitta),  
Assistant Executive Engineer (Transmission, Pathanamthitta),  
Assistant Executive Engineer (Generation, Kakkad)  
Assistant Executive Engineer (TMR, Thirumala)

REPRESENTED BY EDCL  
SHRI ARUN S RAUT  
SHRI K.V PRASAD  
SHRI ANIL KUMAR  
SHRI SREEKUMAR

SIGNATURES:

1. DyCE (Generation, Moozhiyar & Chariman, Co-Ordination Committee)
2. EE (Relay, Moolamattam)
3. EE (Transmission, Pathanamthitta)
4. AEE (Transmission, Pathanamthitta)
5. AEE (Generation, Kakkad)
6. AEE (TMR, Thirumala)
7. Arun S Raut
8. K.V Prasad
9. Anil Kumar
10. Sreekumar



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## Unit 3 Hydro Power Generator

Synchronization of Unit 3rd Generator of 3x5MW Karikayam  
Hydroelectric project, Chittar village, Karikayam Post,  
Pathanamthitta District on 02-09-2013

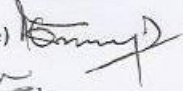
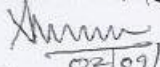
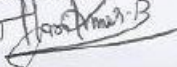


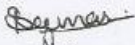


As per the approval accorded by the KSEB vide Order no: BO (FM) No. 1833/2013 (CP/Plg III/Karikkayam) dated 26-08-2013 & Approval from CEIG vide order no: B1-10387/2011/CEI dated 11-07-2013, The unit 3<sup>rd</sup> generator of 3x5MW, Karikkayam Hydroelectric project, has been synchronized on 02-09-2013 at 16:20 PM in the presence of The Deputy Chief Engineer (Generation, Moozhiyar). Also the following KSEB officials and company representatives were present during synchronization.

Assistant Executive Engineer (Transmission, Pathanamthitta),  
Assistant Executive Engineer (Generation, Kakkad)  
Assistant Executive Engineer (PSD, Moolamattom)

REPRESENTED BY EDCL

SHRI SIVASUBRAMANIYAM (DGM, Projects EDCL)  
SHRI SREEKUMAR (Elec.Engg AHPL)  
SHRI SOJAN JOSEPH (Elec.Engg AHPL)  
SHRI VINEETH GEORGE (Elec.Engg AHPL)

SIGNATURES:

1. DyCE (Generation, Moozhiyar & Chariman, Co-Ordination Committee) 
2. AEE (Transmission sub:division, Pathanamthitta) 
3. AEE (Generation sub:division, Kakkad) 
4. AEE (PSD, Moolamattom) 
5. Mr.Sivasubramaniyam (DGM, Projects EDCL) 
6. Mr.Sreekumar (Elec.Engg,AHPL) 
7. Mr.Sojan Joseph (Elec.Engg,AHPL) 
8. Vineeth George (Elec.Engg, AHPL) 

## Unit 1 Hydro Power Generator

Synchronization of Unit 1st Generator of 3x5MW Karikayam  
Hydroelectric project, Chittar village, Karikayam Post,  
Pathanamthitta District on 28-09-2013


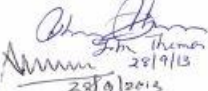
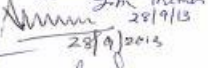


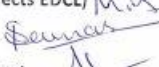


As per the approval accorded by the KSEB vide Order No: BO (FM) No. 1833/2013 (CP/Plg III/Karikayam) dated 26-08-2013 & Approval from CEIG vide order no: B1-10387/2011/CEI dated 11-07-2013, The unit 1st generator of 3x5MW, Karikkayam Hydroelectric project, has been synchronized on 28-09-2013 at 16:51PM in the presence of The Deputy Chief Engineer (Generation, Moozhiyar). Also the following KSEB officials and company representatives were present during synchronization.

Executive Engineer (Transmission Division, Pathanamthitta)  
Assistant Executive Engineer (Transmission Sub-Division, Pathanamthitta),  
Assistant Executive Engineer (PSD, Moolamattom)

REPRESENTED BY EDCL

SHRI SIVASUBRAMANIYAM (DGM, Projects EDCL)  
SHRI SREEKUMAR (Elec.Engg AHPL)  
SHRI ANIL KUMAR.M.R. (Elec.Engg AHPL)  
SHRI VIKASH KUMAR SINGH (Elec.Engg AHPL)

SIGNATURES:

1. Dy.CE (Generation Circle, Moozhiyar & Chairman, Co-Ordination Committee) 
2. EE (Transmission Division, Pathanamthitta) 
3. AEE (Transmission Sub-division, Pathanamthitta) 
4. AEE (PSD, Moolamattom) 
5. Mr.Sivasubramaniyam (DGM, Projects EDCL) 
6. Mr.Sreekumar (Elec.Engg,AHPL) 
7. Mr.Anil Kumar M.R. (Elec.Engg,AHPL) 
8. Mr.Vikash Kumar Singh (Elec.Engg, AHPL) 

**Jayprakash Jethi**  
Energy Auditor  
+91 97142 53756

## Annexure 3: Assurance to Avoid Double Counting



### **AYYAPPA HYDRO POWER LTD.**

CIN : U40100WB2005PLC116955  
'EDCL HOUSE' 1A-Elgin Road, Kolkata - 700 020, Phone : 033-4041 1983/1990  
Fax : 033-2290-3298, E-mail : edclcal@edclgroup.com  
Website : www.edclgroup.com

Universal Carbon Registry – Double Counting Assurance, 2021 Strictly private and confidential

To,  
**Limbaja Energy**  
2 Shrijinagar, Arihantnagar Road,  
Near Aashapura Cottages, Kutch, Bhuj  
Gujarat - 370 001, India  
Email : [limbajaenergy@gmail.com](mailto:limbajaenergy@gmail.com)

#### Sub: Assurance to avoid double counting by Project Owners

Dear Sir,

We declare the following given below:

- I, Trinath Choudary, on behalf of Energy Advisory Services Private Limited, Company incorporated in India, with details as provided in, having registered office at Flat No. 15, 5th Floor, Sudha, 20 N, S. Road, Patel Compound, Mumbai - 400 036;
- I, Nitin Dutt Sharma, on behalf of M/s Ayyappa Hydro Power Limited, having Registered Office At EDCL House, 1A, Elgin Road, Kolkata - 700 020 West Bengal identified above, herewith confirm that:

We intend to submit / have submitted the project 15 MW Karikayam Small Hydro Power Project of Ayyappa Hydro Power Limited by Energy Advisory Services Pvt Ltd (UCR PROJECT ID: 428) for registration with UCR Program which aims for issuance of CoUs (called as Carbon Offset Units) consequent to compliance with all the applicable requirements of UCR Program;

Authorised Actions. Energy Advisory Services Private Limited is authorised to act for the Project PropONENT with respect to state the following:

- The project is not registered more than once with the UCR program
- The project is not registered under any other GHG program (voluntary or compliance)
- (If a project is registered with more than one program), That the offset credits are cancelled by (name of program) before offset credits are submitted for verification via the monitoring report to your agency, (please attach relevant links or documentation)
- Double counting with mandatory domestic targets is avoided and that host country will not use the project's emission reductions to track progress towards, or for demonstrating achievement of its nationally determined contributions (NDCs).

SIGNED for and on behalf of  
Ayyappa Hydro Power Limited  
Ayyappa Hydro Power Limited

Director / Authorised Signatory  
Name: Mr. Nitin Dutt Sharma  
Title: Director  
Date of execution: 29/05/2024

SIGNED for and on behalf of  
Energy Advisory Services Private Limited

Name: Mr. Trinath Choudary  
Title: Director  
Date of execution: 29/05/2024