

> Jayprakash Jethi Energy Auditor +91 97142 53756

Verification Report for

UCR ID No. 317

DESCRIPTION	DATA				
	M/s. 42 MW Biomass Based Power Generation at L.H. Sugar				
Project Owner Name :	Factory Ltd				
Project Location :	Village: Jangraulipul				
	District: Pilibhit				
	tate: Uttar Pradesh 262001				
	Latitude: 28°N i.e. 28°00'00"N, Longitude: 79°E i.e. 79°00'00"E				
Project Aggregator:	Energy Advisory Services Pvt Limited - Bangalore - Karnataka.				
Scale of the project activity	Large Scale				
Date	24 th - July -2023				

DESCRIPTION	DATA
Verification Firm:	Limbaja Energy2 Shrijinagar, Arihantnagar Road,Nr. Aashapura cottages,Bhuj-Kachchh-370001M : 9714253756limbajaenergy@gmail.com
Team Details:	Mr. Jayprakash Jethi

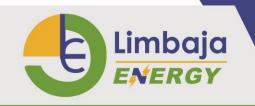
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COVER PAGE				
Project Verification Report Form (VR)				
BASIC INFORMATI	ON			
Name of approved UCR Project Verifier / Reference Limbaja Energy No.				
Type of Accreditation	 CDM or other GHG Accreditation ISO 14065 Accreditation UCR Approved 			
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	01 Energy industries (Renewable/Non-renewable sources)			
Validity of UCR approval of Verifier	Aug-2022 onwards			
Completion date of this VR	24 th July 2023			
Title of the project activity	42 MW Biomass Based Power Generation at L.H. Sugar Factory Ltd			
Project reference no. (as provided by UCR Program)	317			

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Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	Energy Advisory Services Pvt Limited - Bangalore - Karnataka.		
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications) Country where project is located	Energy Advisory Services PvtLimited - Bangalore - Karnataka.nikhil@easpl.co.in98673 67719India		
Applied methodologies (approved methodologies by UCR Standard used)	ACM0006: "Electricity and heat generation from biomass" Version 16.0		
Project Verification Criteria: Mandatory requirements to be assessed	 UCR Standard Applicable Approved Methodology Applicable Legal requirements /rules of host country Eligibility of the Project Type Start date of the Project activity Meet applicability conditions in the applied methodology Credible Baseline Do No Harm Test Emission Reduction calculations 		

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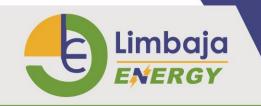
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	Monitoring Report
	No GHG Double Counting
	Others (please mention below)
Project Verification Criteria: Optional requirements to be assessed	Environmental Safeguards Standard and do-no-harm
	criteria Social Safeguards Standard do- no-harm criteria
Project Verifier's Confirmation:	The UCR Project Verifier <i>Limbaja</i> <i>Energy</i> certifies the following with
The UCR Project Verifier has verified the UCR project	respect to the UCR Project Activity
activity and therefore confirms the following:	"42 MW Biomass Based Power
	Generation at L.H. Sugar Factory Ltd "
	The Project Owner has correctly
	described the Project Activity in the
	Project Concept Note Version 2.0
	(dated 7 th July 2023) including the
	applicability of the approved
	methodology ACM0006 : Electricity and heat generation from biomass
	(Ver. 16) & UCR Standard for
	Emission Factor and meets the
	methodology applicability conditions
	and has achieved the estimated GHG
	emission reductions, complies with

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the monitoring methodology and has					
calculated emission reductions					
estimates	correctly	and			
conservative	ely.				

The Project Activity is likely to generate GHG emission reductions amounting to the estimated [7,36,147] TCO2e, 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.

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 rules¹

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	and therefore, recommends UCR Program to register the Project activity with above mentioned labels.		
Project Verification Report, reference number and date of approval	Verification Report UCR Project ID: 317		
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	Limbaja Energy Jethi J.P. 24/07/2023		
	24/01/2023		

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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 "42 MW Biomass Based Power Generation at L.H. Sugar Factory Ltd" UCR approved project ID:317, to establish number of CoUs generated by project over the crediting period from 01/01/2013 to 31/12/2022 (both days included).

Verification for the period: 01/01/2013 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 **ACM0006**: Electricity and heat generation from biomass (Ver. 16) & 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 **42 MW Biomass Based Power Generation at L.H. Sugar Factory Ltd** (UCR ID - 317) for the period 01/01/2013 to 31/12/2022 amounts to 7,36,147 CoUs (7,36,147 tCO2e).

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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 2.0, the project activity involves Biomass Cogeneration project of installed aggregated capacity of 42 MW Biomass Based Power Generation at L.H. Sugar Factory Ltd at Village: Jangraulipul District: Pilibhit, State: Uttar Pradesh - 262001 Latitude: 28°N i.e. 28°00'00"N Longitude: 79°E i.e. 79°00'00"E India. 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 cogeneration power-based project for selling it to National and Regional grid. The project activity has installed capacity of 42 MW which will qualify for a large-scale project activity under Type-I of the Large-Scale methodology. The project status is corresponding to the methodology ACM0006, Version 16.

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

Summary of the Project Activity			
Start date of this Monitoring Period	01/01/2013		
Carbon credits claimed up to	31/12/2022		
Total Carbon Credit (tCO2eq)	7,36,147		
Project Emission	0		
Leakage Emission	0		

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B. Project Verification team, technical reviewer and approver

	Role	Last name	First name	Affiliation	Involvement in		
SN					Document review	Off-Site inspection	Interviews
1	Lead Verifier and Energy Auditor	Jethi	Jayprakash	Limbaja Energy (UCR authorised	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 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, 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 Version 2.0 is made available to verifier post approval by UCR which is considered as validated documents and the content of validated PCN Version 2.0 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".

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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.	Kumar	Navin	General	10/07/2023	Meter calibration,	
			Manager –		Double Counting	
			Power Plant		and project	
					overview	

C.4 Sampling approach: Not Applicable

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<u>C.5</u> Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

	Areas of Project Verification findings	No. of	No. of	No. of
SN		CL	CAR	FAR
	Green House Gas (GHG)			
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
	Total	Nil	Nil	Nil

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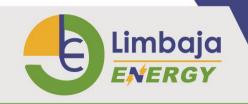
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D Project Finding

D.1 Identification and eligibility of project type

SN	Particular	Remarks
1	Means of Project Verification	This Project is taken reference of CDM Methodology ACM0006: "Electricity and heat generation from biomass" Version 16.0 Bagasse Cogeneration Energy Projects.
2	Findings	 Project activity is described through UCR approved PCN. UCR project communication agreement clearly defines the Project Proponent and Project Aggregator.
3	Conclusion	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.

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D.2 General description of project activity

SN	Particular	Remarks
1	Means of Project Verification	The project activity involves the setting up of a Bagasse based co-generation. 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	Findings	 Project Commissioning date is mentioned in the commissioning certificate. Turbine Capacity is same as mentioned technical specifications. Project implementation and sale of energy abide the power purchase agreement.
3	Conclusion	The description of the project activity is verified to be true based on the review of PCN Version 2.0, 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	Means of Project Verification	This Project is taken reference of CDM Methodology ACM0006: "Electricity and heat generation from biomass" Version 16.0. For the applicability mentioned in the PCN Version 2.0 and MR, Commissioning certificate, Detailed Project Report and PPA documents were referred.
2	Findings	The methodology applied is applicable for the project activity.
3	Conclusion	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	Means of Project Verification	The documents reviewed CDM Methodology ACM0006: "Electricity and heat generation from biomass" Version 16.0. UCR Program standard, and UCR Verification Standard.
2	Findings	Emission factor calculated using the methodology is higher than UCR standard recommends.
3	Conclusion	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 exceed 15 MW thus meeting the requirement of Large-scale project.

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D.3.3 Project boundary, sources and GHGs

SN	Particular	Remarks	
1	Means of Project Verification	Letter from Uttar Pradesh Pollution Control Board dated13/02/2022ConsentRefNo.:142388/UPPCB/Bareilly(UPPCBRO)/CTO/air/PILIBHIT/2021	
2	Findings	Project boundary is appropriately defined in PCN version 2.0 which is physical and geographical site of power house.	
3	Conclusion	Project boundary is correctly defined in PCN version 2.0. GHG source correctly identified and reported. The project meets the requirements of UCR project standard, Verification standard and methodology requirements for boundary, GHG source.	

D.3.4 Baseline scenario

SN	Particular	Remarks
1	Means of Project Verification	PCN Section B.5 and General Project Eligibility Criteria and Guidance, UCR Standard.
2	Findings	Declared information is correct and verified.
3	Conclusion	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.

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D.3.5 Estimation of emission reductions or net anthropogenic removal

SN	Particular	Remarks
1	Means of Project Verification	Export and Import Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard
2	Findings	None
3	Conclusion	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	MeansofProjectVerification	Meter Calibration reports, Export and Import Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard,	
2	Findings	None	
	Conclusion	Meter testing reports are pr Meter details are mentioned Main Meter	
3		Make	Secure Meter Limited
		Serial No.	APM04222
		Calibration Date	01-Oct-22

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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

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D.4 Start date, crediting period and duration

SN	Particular	Remarks
1	Means of Project Verification	PCN Version 2.0 and MR, Commissioning certificate, Detailed Project Report and PPA documents were referred.
2	Findings	None
3	Conclusion	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	Means of Project Verification	PCN version 2.0
2	Findings	Declared information is correct and verified.
3	Conclusion	The positive environmental impact meets the requirement of UCR verification standard and UCR project standard

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D.6 Project Owner- Identification and communication

SN	Particular	Remarks
1	Means of Project Verification	PCN Version 2.0, Communication Agreement, MR, Commissioning certificate, Power Purchase Agreement.
2	Findings	Declared information is correct and verified.
3	Conclusion	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	Means of Project Verification	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	Findings	None
3	Conclusion	Project has overall positive social impact.

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D.8 Sustainable development aspects (if any)

SN	Particular	Remarks	
1	Means of Project VerificationPCN Version 2.0 were referred.		
2	Findings	Declared information is correct and verified.	
3	Conclusion	The Project addresses SDG 7 Affordable, SDG 8 Decent work and Economic Growth, SDG 13 Climate Action	

E. Internal quality control:

- **4** 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.
- **4** Verification team consists of experience personnel.
- **4** 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, ACM0006: Electricity and heat generation from biomass (Ver. 16) & UCR Standard for Emission Factor the documents submitted during the verification including the data, Project Concept Note (PCN) Version 2.0 / Monitoring Report (MR), I am able to certify that the emission reductions from the 42 MW Biomass Based Power Generation at L.H. Sugar Factory Ltd (UCR ID – 317) for the period 01/01/2013 to 31/12/2022 amounts to 7,36,147 CoUs (7,36,147 tCO2e).

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Appendix 1. Abbreviations

SN	Abbreviations	Full texts
1	UCR	Universal Carbon Registry
2	СРСВ	Central Pollution Control Board
3	UPCB	Uttar Pradesh Pollution Control Board
4	PGCIL	Power Grid Corporation of India Ltd.
5	UPPCL	Uttar Pradesh Power Corporation Ltd.
6	UPERC	Uttar Pradesh Electricity Regulatory Commission
7	YMPL	Yadav Measurements Private Limited
8	MVVNL	Madhyanchal Vidyut Vitaran Nigam Limited
9	MR	Monitoring report
10	PCN	Project Concept Note
11	VR	Verification Report
12	VS	Verification Statement
13	DAA	Avoidance of Double Accounting Agreement
14	COD	Commercial Operation Date
15	PP/PO	Project Proponent / Project Owner
16	PA	Project Aggregator
17	PPA	Power Purchase Agreement
18	ER	Emission Reduction
19	COUs	Carbon offset Units.
20	tCO2e	Tons of Carbon Dioxide Equivalent
21	kWh	Kilo-Watt Hour
22	mWh	Mega-Watt Hour
23	kW	Kilo-Watt
24	mWh	Mega-Watt
25	CDM	Clean Development Mechanism
26	SDG	Sustainable Development Goal

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SN	Abbreviations	Full texts
27	CAR	Corrective Action Request
28	CR	Clarification Request
29	FAR	Forward Action Request
30	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	YMPL	Meter Calibration	PA
7	UPPCL	Electricity Export Bill	PA
8	UPPCL	Electricity Import Bill	PA
9	UPPCL	PPA	PA
10	UPPCL	Commissioning Certificate	PA

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Table 1. CLs from this Project Verification

CL ID	XX	Section no.		Date: DD/MM/YYYY		
Description	of CL					
Project Ow	ner's response			Date: DD/MM/YYYY		
Documenta	tion provided by Pr	oject Owner				
UCR Proje	UCR Project Verifier assessment Date: DD/MM/YYYY					

Table 2. CARs from this Project Verification

	14010 2					
CAR ID	XX	Section no.	Date: DD/MM/YYYY			
Description	n of CAR					
Project Ow	Project Owner's response Date: DD/MM/YYYY					
Documentation provided by Project Owner						
UCR Project Verifier assessment Date: DD/MM/YYYY						

Table 3. FARs from this Project Verification

FAR ID	XX	Section no.	Date: DD/MM/YYYY				
Description	Description of FAR						
Project Ow	ner's response		Date: DD/MM/YYYY				
Documenta	Documentation provided by Project Owner						
UCR Project Verifier assessment Date: DD/MM/YYY							

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Annexure 1: Photographs of the Co-generation power plant





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Annexure 2: Date of Commissioning

Office of the Executive Engineer Electricity Distribution Division Pilibhit

EDD:PBT:

No. 106-C/EDD(P) / Co. Sen.

10.06.2011

Commissioning Certificate

This is to certify from the examine of the records maintained by M/S LHSugar Factories Limited, Civil Lines, Pilibhit that they have 44.25 MW (1 x 3.0 MW +1 x 2.5 MW +1 x 12 MW +1 x 26.75 MW) bagasse based co-generation plants connected with UPPCL grid at 132 KV sub-station Pilibhit and are exporting power as per Power Purchase Agreement dated 19.12.2007.

Unit wise commissioning details of the co-generation plants are given below:

Sl. No.	Unit Number	Capacity	Date of Commissioning
1	1 (3000)	3 MW	27.12.2005
2	1 (2500)	2.5 MW	27.12.2005
3	1 (1200)	12 MW	31.12.2005
4	1 (26750)	26.75 MW	10.05.2008



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Annexure 3: Assurance to Avoid Double Counting

To,

Limbaja Energy 2 Shrijinagar, Arihantnagar Road, Near A ashapura Cottages, Kutch, Huj-370001 (Gujarat)

Sub: Assurance to avoid double counting by Project Owners

Dear Sir,

We declare the following given below:

- I, Nikhil Vedprakash, on behalf of Energy Advisory Services Private Limited, with details as provided in, incorporated in India, having registered office at Flat No. 15, 5th Floor, Sudha,20 N.S. Road, Patel Compound, Mumbai 400036;
- I, Joginder Singh on behalf of LH Sugar Factories Limited, having registered office at Civil Lines, Pilibhit, Uttar Pradesh – 262001, India identified above, herewith confirm that:

We intend to submit/have submitted the project 42 MW Biomass Based Power Generation at L.H. Sugar Factory Ltd. by Energy Advisory Services (UCR PROJECT ID: 317) 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;

Authorized Actions. Energy Advisory Services Private Limited is authorized 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 Energy Advisory Services Private Limited

BY: Nilo 1,190

Name: Nikhil Vedprakash

Title: Director

Date of execution: 09/05/2023

SIGNED for and on behalf of LH Sugars Factories Limited

B Singl Name: Logind

Title: President

JOGINDER SHN(**** Presiden' L. H. Sugar Fac' PILIBI

Date of execution: 09/05/2023

Project Verification Report July 2023

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