Project Verification Report Form (VR)	
BASIC INFORMATION	
Name of approved UCR Project Verifier / Reference No.	SQAC Certification Pvt Ltd.
Type of Accreditation	☐ CDM or other GHG Accreditation ☐ ISO 14065 Accreditation ☒ UCR Approved
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	I-Renewable Energy Projects
Validity of UCR approval of Verifier	October 2021 onwards.
Completion date of this VR	23/10/2024
Title of the project activity	14.88 MW Bagasse based Co-generation by M/s Utopian Sugars Ltd. Dist. Solapur, Maharashtra.
Project reference no. (as provided by UCR Program)	UCR ID: **442**
Name of Entity requesting verification service	M/s. Utopian Sugars Limited.
Contact details of the representative of the Entity, requesting verification service	Climekare Sustainability Pvt Ltd. UCR ID: 336812961 Email: sustainability@climekare.com
Country where project is located	India
Applied methodologies (approved methodologies by UCR Standard used)	Applied Baseline Methodology: **CDM UNFCCC** **Small-scale Methodology** **AMS-I D:** Grid connected renewable electricity generation, Version 18

GHG Sectoral scopes linked to the applied methodologies	01 Energy industries (Renewable/Non-Renewable Sources)
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 ☒ 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* has verified the UCR project activity and therefore confirms the following:	The UCR Project Verifier SQAC Certification Pvt. Ltd., certifies the following with respect to the UCR Project Activity 14.88 MW Bagasse based Co-generation by M/s. Utopian Sugars Ltd. Dist. Solapur, Maharashtra. ☒ The Project Owner has correctly described the Project Activity in the Project Concept Note V1 dated 12/03/2024 including the applicability of the approved methodology CDM UNFCCC Small-scale Methodology AMS-I D: Grid connected renewable electricity generation, Version 18 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. ☒ The Project Activity is generating GHG emission reductions amounting to the estimated **2,13,678 tCO_{2eq}**, as indicated in the MR V1, 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 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: **442** dated 23/10/2024
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	  Santosh Nair Lead Verifier (Signature) SQAC Certification Pvt Ltd

PROJECT VERIFICATION REPORT

Section A. Executive summary

Climekare Sustainability Pvt Ltd. has contracted SQAC Certification Pvt. Ltd. to carry out the verification of the project activity of 14.88 MW Bagasse based Co-generation by M/s. Utopian Sugars Ltd. Dist. Solapur, Maharashtra, India. UCR approved Project ID**: 442**, to establish number of CoUs generated by project over the crediting period from **02/12/2014 - 31/12/2022** (8 years 01 month)

We believe that the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report V1 (MR), submitted to us is accurate and in line with the UCR guidelines.

The GHG emission reductions were calculated based on UCR Protocols which draws reference from, AMS-I D: Grid connected renewable electricity generation, Version 18 & UCR Standard for Baseline Grid Emission Factor. The verification was done remotely by way of video calls / verification, phone calls and submission of documents for verification through emails as per UCR guidelines.

SQAC is able to certify that the emission reductions from 14.88 MW Bagasse based Co-generation by M/s. Utopian Sugars Ltd. Dist. Solapur, Maharashtra, (UCR ID – **442**) for the period **02/12/2014 to 31/12/2022** amounts to **2,13,678 CoUs** (**2,13,678 tCO_{2eq}**)

Project Verification team, technical reviewer and approver

Section B. Project Verification Team

Sr. No	Role	Last name	First name	Affiliation	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Team Leader	Nair	Santosh	n/a	yes	yes	yes
2.	Validator	Nair	Santosh	n/a	yes	yes	yes

Technical reviewer and approver of the Project Verification report

Sr. No.	Role	Type of resource	Last name	First name	Affiliation
1.	Technical reviewer	IR	Shinganapurkar	Praful	SQAC Certification Pvt. Ltd
2.	Approver	IR	Shinganapurkar	Praful	SQAC Certification Pvt. Ltd

Section C. Means of Project Verification

C.1. Desk/document review

As part of the review and validation process, Progressive Management Consultants submitted a comprehensive set of documents for examination by the Lead Verifier. The documents included the Project Concept Note V1 (PCN), Monitoring Report V1, Emission Reduction calculation sheet (ER), Bagasse Consumption (Annexure B), Consent to operate, Credit notes, Daily generation details, Calibration Certificates (Flow meter), Invoices, Joint Meter Readings, Commissioning Certificates, Power Purchase Agreement, Boiler Certificate, Environmental Clearance, Memorandum of Understanding, Certificate of Verification, Calibration Certificates (Steam flow) and additional data provided upon request pertaining to all related projects. These documents were thoroughly reviewed to ensure compliance with relevant standards and guidelines, and to validate the accuracy and completeness of the information provided.

C.2. Off-site inspection

Date of offsite inspection: 12/08/2024			
Sr. No.	**Activity performed Off-Site**	**Site location**	**Date**
1.	Interview conducted over Video call/Telephonic discussions	Solapur, Maharashtra	12/08/2024
2	Supporting documents provided before, during, and after the verification.	Solapur, Maharashtra	12/08/2024

C.3. Interviews

Sr. No.	Interview				
	Name	Designation	Affiliation	Date	Subject
1	Mr. S D Sale	Electrical Engineer	Utopian Sugars Ltd.	12/08/2024	Calibration, Commissioning Certificate Compliance, etc.
2	Mr. Barge S. V	Deputy. Chief Engineer	Utopian Sugars Ltd.	12/08/2024	JMR & Invoices
3	Mr. Sudhir Kadam	Instrumentation Engineer	Utopian Sugars Ltd.	12/08/2024	Commissioning and overview
4	Mr. Sachin Shinde	Environment officer	Utopian Sugars Ltd.	12/08/2024	Power Purchasing Agreement, Meter Photos

C.4. Sampling approach

Not applicable

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
Green House Gas (GHG)			
Identification and Eligibility of project type	Nil	Nil	Nil
General description of project activity	Nil	Nil	Nil
Application and selection of methodologies and standardized baselines			
- 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
Total	Nil	Nil	Nil

Section D. Project Verification Findings

D.1. Identification and eligibility of project type

Means of Project Verification	Project Documentation: Review of the project activity description, including the purpose, technology, and equipment used. Monitoring Data: Examination of the monitoring period data, including the amount of electricity generated and GHG emission reductions achieved. Compliance with Methodologies: Verification that the project adheres to the applied baseline methodology (AMS-I.D) and sectoral scopes. Environmental and Social Impact: Assessment of the project's contributions to sustainable development, including social, environmental, and economic benefits.
Findings	Upon verification, the project is identified as a renewable energy project utilizing biomass (bagasse) for electricity generation. The project displaces fossil fuel-based grid electricity, contributing to GHG emission reductions. It adheres to the CDM UNFCCC Small-scale Methodology AMS-I.D for grid-connected renewable electricity generation. The project is eligible under the UCR CoU Standard, with a total installed capacity of 14.88 MW, of which 9

	MW is supplied to the Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid. It meets the criteria for small-scale renewable energy projects, ensuring no double counting of emission reductions and contributing to sustainable development goals.
Conclusion	In conclusion, the project titled "14.88 MW Bagasse based Co-generation by M/s. Utopian Sugars Ltd." in Solapur, Maharashtra, is eligible for carbon credits under the Universal CO_2 Emission and Offset Registry (UCR). It utilizes bagasse, a renewable biomass by-product from sugarcane processing, to generate electricity, thereby displacing fossil fuel-based grid electricity. The project adheres to the CDM UNFCCC Small-scale Methodology AMS-I.D for grid-connected renewable electricity generation. It has demonstrated significant greenhouse gas (GHG) emission reductions, totaling 2,13,678 tCO_{2eq} over the monitoring period from December 2014 to December 2022. The project meets all criteria for renewable energy projects and contributes to sustainable development by enhancing energy efficiency, managing waste, and supporting local energy supply.

D.2. General Description of Project Activity

Means of Project Verification	Project Purpose: Verification will ensure that the project aims to generate electricity using renewable biomass (bagasse) and reduce GHG emissions by displacing fossil fuel-based grid electricity. Technology and Equipment: Verification will confirm the installation and operation of the 14.88 MW bagasse-based cogeneration power plant, including the high-pressure boilers of 82.5 TPH capacity and steam turbines with a capacity of 14.88 MW. Operational Status: Verification will check the operational records, ensuring the plant has been functioning as described, with power generation and export to the Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid. Environmental Impact: Verification will assess the environmental benefits, such as waste management, energy efficiency, and reduction in GHG emissions.
Findings	Upon verification, it was found that the primary objective is to generate electricity using renewable biomass (bagasse) and reduce greenhouse gas (GHG) emissions by displacing fossil fuel-based grid electricity. The project has been operational since December 2, 2014, and has successfully generated clean energy, contributing to climate change mitigation. The cogeneration plant not only meets the internal energy requirements of the sugar mill but also exports surplus power to the Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid, enhancing energy security and providing additional revenue. The project has achieved significant GHG emission reductions, totalling 2,13,678 tCO_{2eq} during the monitoring period from 2014 to 2022.

Conclusion	In conclusion, the project activity involves a 14.88 MW bagasse-based cogeneration power plant set up by Utopian Sugars Limited in Solapur, Maharashtra. The primary goal is to generate electricity using renewable biomass (bagasse) and reduce greenhouse gas emissions by displacing fossil fuel-based grid electricity. The project has been operational since December 2, 2014, and has successfully generated clean energy, contributing to climate change mitigation. The surplus electricity produced is sold to MSEDCL grid, enhancing local energy supply and supporting sustainable agricultural practices. The project demonstrates significant environmental, economic, and technological benefits, promoting energy self-sufficiency and resource conservation in the sugar industry.

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

D.3.1 Application of methodology and standardized baselines

Means of Project Verification	Project Boundary: Verification of the spatial extent of the project boundary, including all plants generating power and/or heat, power plants connected to the grid, means of biomass transportation, and sites where biomass residues would have been left for decay or dumped. Baseline Scenario: Confirmation that the project activity replaces equivalent electricity from the Indian grid, which is carbon-intensive due to fossil fuel-based power plants. Emission Reductions Calculation: Verification of the emission reductions calculated as the difference between baseline emissions and the sum of project emissions and leakage. Monitoring Plan: Ensuring the monitoring of electricity data, including power generation from turbine generators, auxiliary consumption, and metering of all auxiliary units and main meters attached to each turbine generator.
Findings	Upon verification, the project activity involves the generation of grid-connected electricity from a bagasse-based cogeneration power plant. It applies the AMS I.D. Small Scale Consolidated Methodology for "Grid connected renewable electricity generation," version 18. The project displaces CO_2 emissions from fossil fuel-based power plants by using biomass (bagasse) as fuel, which meets the primary applicability criteria of the methodology. The project is included in the Positive List of UCR Approved Scope under the UCR CoU Standard, with an installed capacity of 14.88 MW, of which 9 MW is supplied to MSEDCL grid. The methodology ensures

	that the project activity does not involve any GHG emissions related to the decomposition or burning of biomass and does not co-fire fossil fuels beyond the permissible limit. The project activity is thus compliant with the applicable methodologies and standardized baselines.
Conclusion	In conclusion, the project activity entails the generation of grid-connected electricity from a bagasse-based cogeneration power plant. It adheres to the AMS I.D. Small Scale Consolidated Methodology "Grid connected renewable electricity generation," version 18. The project displaces CO_2 emissions from fossil fuel-based power plants by utilizing biomass (bagasse) for power generation, meeting the primary applicability criteria. The project is included in the Positive list of UCR Approved Scope under the UCR CoU Standard, with an installed capacity of 14.88 MW, of which 9 MW is supplied to the Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid. The methodology is applicable as the project does not involve hydro power, methane recovery, or dedicated biomass plantations, and it meets all specified criteria, ensuring no double counting of emission reductions.

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

Means of Project Verification	Methodology Compliance: Ensuring the project adheres to the AMS-I.D. Small Scale Consolidated Methodology for grid-connected renewable electricity generation, version 18. Baseline Scenario: Confirming the project displaces more GHG-intensive electricity generation in the grid. Emission Reductions Calculation: Verifying the calculation of emission reductions using the formula provided, ensuring accurate data for electricity supplied to the grid and the grid emission factor. Monitoring Plan: Checking the monitoring of electricity data, including power generation from turbine generators and auxiliary consumption, with calibrated meters and documented operational records
Findings	Upon verification, the project activity involving the generation of grid-connected electricity from a 14.88 MW bagasse-based cogeneration power plant by M/s. Utopian Sugars Ltd. The methodology applied is AMS-I.D, "Grid connected renewable electricity generation," Version 18, under the CDM UNFCCC framework. The project displaces CO_2 emissions from fossil fuel-based power plants by using biomass (bagasse) as fuel. The project meets the primary applicability criteria of the methodology, as it involves renewable biomass and does not co-fire fossil fuels beyond the permissible limit. The project is included in the Positive List of UCR Approved Scope under the UCR CoU Standard, ensuring no double counting of emission reductions. The baseline scenario assumes the displacement of more GHG-intensive electricity generation in the grid

Conclusion	In conclusion, the 14.88 MW bagasse-based cogeneration power plant project by M/s. Utopian Sugars Ltd. in Solapur, Maharashtra, utilizes the AMS-I.D. methodology for grid-connected renewable electricity generation (version 18) under the CDM UNFCCC framework. This project qualifies for the methodology as it generates electricity from biomass (bagasse), replacing fossil fuel-based grid electricity. The project does not produce any GHG emissions from biomass combustion and complies with the UCR CoU Standard for baseline grid emission factors. Thus, the applied methodology, tool, and standardized baseline are suitable and valid for this project."

D.3.3 Project boundary, sources and GHGs

Means of Project Verification	Project Boundary: Verification will involve confirming the spatial extent of the project, including all plants generating power and/or heat at the project site, power plants connected to the grid, means of biomass transportation, and sites where biomass residues would have been left for decay or dumped. Sources and GHGs: Verification will include ensuring that CO_2 emissions from burning fossil fuels in boilers are included, while CH_4 and N2O emissions are excluded for simplification. It will also involve confirming that the project activity emissions from biomass are excluded. Avoidance of Fossil Fuel Emissions: Verification will check that locally sourced GHG-neutral biomass is used, avoiding fossil fuel emissions and vehicular emissions from sourcing biomass from large distances.
Findings	Upon verification, the project boundary for the 14.88

	MW Bagasse-based Co-generation project by M/s. Utopian Sugars Ltd. encompasses all plants generating power and/or heat at the project site, all power plants connected to the electricity system that the project plant is connected to, the means of transportation of biomass to the project site, and the site where the biomass residues would have been left for decay or dumped. The primary GHG considered is CO_2, which is included as it is the major source of emissions from burning fossil fuels in boilers. CH_4 and N2O are excluded for simplification. The project successfully avoids fossil fuel emissions by using locally sourced GHG-neutral biomass, thus reducing GHG emissions from in-house cogeneration energy requirements and vehicular emissions.
Conclusion	In conclusion, the project boundary for the 14.88 MW Bagasse-based Co-generation project by M/s. Utopian Sugars Ltd. encompasses all plants generating power and or heat at the project site, all power plants connected to the electricity system that the project plant is connected to, the means of transportation of biomass to the project site, and the site where the biomass residues would have been left for decay or dumped. The primary GHG considered is CO_2, with CH_4 and N2O excluded for simplification. The project successfully avoids fossil fuel emissions by using locally sourced GHG-neutral biomass, thereby reducing GHG emissions through in-house cogeneration energy requirements and minimizing vehicular emissions from biomass transport.

D.3.4 Baseline scenario

Means of Project Verification	Electricity Generation Data: Verification of the net quantity of electricity generated and supplied to the grid by the project activity.

	Grid Emission Factor: Confirmation of the grid emission factor used to calculate baseline emissions. Biomass Usage: Verification of the quantity and type of biomass (bagasse) used in the project. Project Emissions: Assessment of project emissions, including those from biomass transportation and processing.
Findings	Upon verification, it was found that the project involves the displacement of electricity generated from fossil fuel-based power plants connected to the Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid. In the absence of this project, the equivalent amount of electricity would have been sourced from the regional grid, which is predominantly powered by fossil fuels. The project, therefore, replaces this carbon-intensive electricity with renewable biomass-based electricity, leading to significant greenhouse gas (GHG) emission reductions. The baseline emissions are calculated based on the net quantity of electricity supplied to Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid and the grid emission factor, resulting in a conservative estimate of the carbon credits generated. This scenario underscores the project's contribution to reducing GHG emissions and promoting sustainable energy practices.
Conclusion	In conclusion, the baseline scenario for the 14.88 MW Bagasse-based Co-generation project by M/s Utopian Sugars Ltd. involves replacing electricity that would have been produced by fossil fuel power plants connected to Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid. By using biomass (bagasse) for power generation, the project substitutes the carbon-intensive grid

	electricity, resulting in substantial reductions in greenhouse gas (GHG) emissions. This project is a voluntary initiative that aids in climate change mitigation by decreasing dependence on fossil fuels and promoting renewable energy. Baseline emissions are determined by the net electricity supplied to the grid and the grid emission factor, ensuring a conservative estimate of the carbon credits generated.

D.3.6 Estimation of Emission Reductions or Net Anthropogenic Removal

Means of Project Verification	Monitoring of Electricity Data: Power generation from turbine generators and auxiliary consumption are metered. Main meters attached to each turbine generator determine total generation. Operational Records: Documented, collected, and archived in hard copies or electronic formats. Calibrated Meters: Used for measuring steam quantity, temperature, and pressure. Bagasse Calculation: Amount of bagasse generated is calculated from the amount of cane crushed, monitored through daily records.
Findings	Upon verification, it highlights that the project activity involves a 14.88 MW bagasse-based cogeneration power plant by M/s. Utopian Sugars Ltd. The project displaces fossil fuel-based grid electricity with renewable biomass-based electricity, resulting in significant GHG emission reductions. The total emission reductions achieved during the monitoring period from 02/12/2014 to 31/12/2022 amount to 2,13,678 tCO_{2eq}. This is calculated by subtracting project emissions and leakage from the baseline emissions, which are determined by the net electricity supplied to Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid and the grid

	emission factor. The project does not involve any GHG emission sources on-site, ensuring zero CO_2 emissions from bagasse combustion
Conclusion	In conclusion, the project activity, a 14.88 MW bagasse-based co-generation power plant by M/s. Utopian Sugars Ltd., achieved a total GHG emission reduction of 2,13,678 tCO_{2eq} during the monitoring period from December 2, 2014, to December 31, 2022. This reduction was accomplished by displacing fossil fuel-based grid electricity with renewable biomass- based electricity. The project effectively utilized bagasse, a by-product of sugarcane processing, to generate clean energy, thereby contributing significantly to climate change mitigation by reducing anthropogenic GHG emissions.

D.3.7 Monitoring Report

Means of Project Verification	Operational Records: Documentation of daily, monthly, and quarterly reports on electricity generation, steam data, and bagasse usage. Meter Calibration: Regular calibration of energy meters by an independent third party to ensure accuracy. Internal Audits: Reviews by an internal audit team from different departments to verify data recording and maintenance procedures. External Verification: Cross-checking of bagasse usage and electricity generation with plant records and joint meter reading statements.
Findings	Upon verification, the Monitoring Report for the 14.88 MW Bagasse-based Co-generation project by M/s. Utopian Sugars Ltd. in Solapur, Maharashtra,

	indicates successful implementation and operation from December 2, 2014, to December 31, 2022. The project achieved a total GHG emission reduction of 2,13,678 tCO_{2eq} by displacing fossil fuel-based grid electricity with renewable biomass-based electricity. The project utilized bagasse, a by-product of sugarcane processing, to generate electricity, thereby enhancing energy efficiency and supporting sustainable agriculture. The report confirms compliance with the applied CDM UNFCCC methodology and highlights the project's contributions to environmental sustainability, economic development, and energy security.
Conclusion	In conclusion, the Monitoring Report for the 14.88 MW Bagasse-based Co-generation project by M/s. Utopian Sugars Ltd. in Solapur, Maharashtra, demonstrates successful implementation and operation from 02/12/2014 to 31/12/2022. The project achieved a total GHG emission reduction of 2,13,678 tCO_{2eq} by displacing fossil fuel-based grid electricity with renewable biomass-based electricity. The report confirms that the project adhered to the applied baseline methodology (CDM UNFCCC Small-scale Methodology AMS-I.D) and contributed to sustainable development through environmental, social, economic, and technological benefits. The project effectively utilized bagasse, a renewable biomass, ensuring zero on-site CO_2 emissions and supporting local energy supply and economic growth.

D.4. Start date, crediting period and duration

Means of Project Verification	Start Date: Verified through the commissioning date of the project, which is 02/12/2014. Crediting Period: Verified by the documented crediting period, which spans from 02/12/2014 to 31/12/2022. Duration: Verified by the monitoring period, which is 8 years and 1 month, aligning with the crediting period.
Findings	Upon verification, the project activity, titled "14.88 MW Bagasse based Co-generation by M/s. Utopian Sugars Ltd.," commenced on December 2, 2014. The crediting period for this project spans from December 2, 2014, to December 31, 2022, covering a total duration of 8 years and 1 month. This period is inclusive of both the start and end dates.
Conclusion	In conclusion, the start date of the project activity is 02/12/2014, and the crediting period for this monitoring period spans 08 years and 1 month, from 02/12/2014 to 31/12/2022. This duration is inclusive of both the start and end dates, as specified in the monitoring report.

D.5. Positive Environmental Impacts

Means of Project Verification	GHG Emission Reductions: Verification of the actual amount of GHG emission reductions achieved during the monitoring period (2014-2022), totalling 2,13,678 $tCO_{2eq.}$ Renewable Energy Generation: Confirmation of the electricity generated using renewable biomass (bagasse) and its contribution to displacing fossil fuel-based grid electricity. Environmental Benefits: Assessment of the project's impact on reducing air pollution, water pollution, and solid waste, as well as its role in promoting sustainable agricultural practices. Compliance with Methodologies: Ensuring the project adheres to the applied baseline methodology (CDM UNFCCC Small-scale Methodology AMS-I.D) and sectoral scopes.
Findings	Upon verification, the project by M/s. Utopian Sugars Ltd. demonstrates significant positive environmental impacts. By utilizing bagasse, a renewable biomass, for cogeneration, the project reduces reliance on fossil fuels, thereby decreasing greenhouse gas emissions. The project has achieved a total reduction of 2,13,678 tCO_{2eq} over the monitoring period from 2014 to 2022. Additionally, the use of high-pressure cogeneration technology enhances energy efficiency and supports sustainable agricultural practices. The project also contributes to local energy security by generating surplus electricity for the Maharashtra State Electricity Transmission Company Limited (MSEDCL) grid, thus promoting cleaner energy alternatives and fostering sustainable development in the region.

Conclusion	In conclusion, the project "14.88 MW Bagasse based Co-generation by M/s. Utopian Sugars Ltd." demonstrates significant positive environmental impacts. By utilizing bagasse, a renewable biomass, for electricity generation, the project effectively reduces greenhouse gas emissions by displacing fossil fuel-based grid electricity. This contributes to climate change mitigation with a total reduction of 2,13,678 tCO_{2eq} over the monitoring period. Additionally, the project promotes sustainable energy practices, enhances energy self-sufficiency, and supports local energy supply, thereby fostering environmental sustainability and reducing reliance on non-renewable energy sources.

D.8. Project Owner- Identification and communication

Means of Project Verification	Project Owner Identification: The project owner is M/s. Utopian Sugars Ltd., located in Solapur, Maharashtra. The project is registered under UCR ID 442. Communication: The project owner can be contacted through Climekare Sustainability Pvt. Ltd., which acts as the project aggregator. The contact information includes an email address (sustainability@climekare.com) and a phone number (9811752560).
Findings	Upon verification, the project owner, M/s. Utopian Sugars Ltd., is clearly identified as the proponent of the 14.88 MW Bagasse-based Co-generation project in Solapur, Maharashtra. The project is registered under UCR ID 442 and has been operational since December 2, 2014. Communication details are provided, including the

	involvement of Climekare Sustainability Pvt. Ltd. as the aggregator. The project aims to generate renewable electricity using biomass, thereby reducing GHG emissions by displacing fossil fuel-based grid electricity. The project has successfully achieved significant GHG emission reductions over the monitoring period from 2014 to 2022.
Conclusion	In conclusion, the project owner, M/s. Utopian Sugars Ltd., has effectively identified and communicated the project's objectives and implementation details. The project aims to generate electricity using renewable biomass (bagasse) and reduce GHG emissions by displacing fossil fuel-based grid electricity. The project has been operational since December 2014 and has achieved significant GHG emission reductions, totalling 2,13,678 tCO_{2eq} over the monitoring period. The project owner has also ensured compliance with relevant methodologies and standards, and has maintained transparent communication with stakeholders, including the project aggregator, Climekare Sustainability Pvt. Ltd.

Positive Social Impact

Means of Project Verification	Employment Opportunities: The project has created numerous job opportunities for local residents, reducing unemployment rates and improving economic stability in the community. Infrastructure Development: Improvements in local infrastructure, such as roads and utilities, benefit the entire community by facilitating easier access to markets, healthcare, and educational institutions. Support for Local Farmers: By providing a stable market for agricultural produce, the project supports farmers' livelihoods and encourages sustainable farming practices. Community Development: The project contributes to the development of renewable infrastructure and overall economic development in the region.
Findings	Upon verification, the project by M/s. Utopian Sugars Ltd. demonstrates a positive social impact through several key aspects. It has created numerous job opportunities for local residents, reducing unemployment and improving economic stability in the community. The project has also necessitated improvements in local infrastructure, such as roads and utilities, benefiting the broader community. Additionally, by providing a stable market for agricultural produce, the project supports local farmers' livelihoods and encourages sustainable farming practices. Overall, the project contributes to social well-being by fostering economic development and enhancing the quality of life for the local population.
Conclusion	In conclusion, the project by M/s. Utopian Sugars

	Ltd. demonstrates a positive social impact through several key aspects. It has created numerous job opportunities for local residents, reducing unemployment and improving economic stability in the community. The project has also led to infrastructure improvements, such as better roads and utilities, benefiting the entire community. Additionally, by providing a stable market for local farmers' produce, it supports their livelihoods and encourages sustainable farming practices. Overall, the project contributes to social well-being by fostering economic development, enhancing infrastructure, and supporting local agriculture.

Sustainable development aspects (if any)

Means of Project Verification	Social Well-being: Verification through job creation records, local infrastructure improvements, and support for local farmers. Environmental Well-being: Monitoring of biomass usage, reduction in GHG emissions, and compliance with environmental regulations. Economic Well-being: Assessment of local economic benefits, infrastructure development, and market support for agricultural produce. Technological Well-being: Evaluation of the implementation and efficiency of cogeneration technology and its impact on reducing dependence on fossil fuels.
Findings	Upon verification, the project by M/s. Utopian Sugars Ltd. demonstrates significant contributions to sustainable development. Socially, it creates numerous job opportunities, improves local infrastructure, and supports local farmers by providing a stable market for agricultural produce. Environmentally, it utilizes biomass energy, reducing

	GHG emissions and avoiding air, water, and solid waste pollution. Economically, it promotes decentralization of economic power, enhances local infrastructure, and supports sustainable farming practices. Technologically, it introduces efficient cogeneration technology, reducing dependence on carbon-intensive grid supply and improving energy availability and quality. Overall, the project aligns well with sustainable development goals, fostering economic, social, environmental, and technological well-being.
Conclusion	In conclusion, the project activity by M/s. Utopian Sugars Ltd. demonstrates significant contributions to sustainable development. It creates numerous job opportunities, enhancing local economic stability and infrastructure. The project supports local farmers by providing a stable market for agricultural produce, promoting sustainable farming practices. Environmentally, it utilizes clean biomass energy, reducing GHG emissions and avoiding pollution. Economically, it promotes decentralization of economic power and infrastructure development, fostering new industries and economic activities. Technologically, it advances cogeneration power plants, reducing dependence on carbon-intensive grid supply and improving energy availability and quality. Overall, the project aligns with India's sustainable development goals, contributing to social, environmental, economic, and technological well-being.

Section E. Internal quality control

To ensure accuracy and reliability throughout the verification process, rigorous internal quality control measures were implemented. This involved regular internal reviews of procedures, documentation, and reports to promptly address any errors or discrepancies. Verification staff received ongoing training to maintain their proficiency and efficiency. Standard Operating Procedures (SOPs) were established to provide clear guidance on data collection, analysis, and reporting, ensuring consistency and adherence to best practices. Robust documentation management practices were

adopted to maintain transparent records of activities, including data sources and methodologies. Peer reviews and team discussions validated findings and ensured consensus on conclusions. Continuous improvement processes were instituted to assess and enhance verification practices, identifying areas for improvement and boosting overall performance over time.

Section F. Project Verification opinion

The GHG emission reductions were calculated based on UCR Protocols which draws reference from, Applied Baseline Methodology: CDM UNFCCC Small-scale Methodology AMS-I D: Grid connected renewable electricity generation, Version 18 & UCR Standard for baseline Grid Emission Factor. The verification was done remotely by way of video calls / verification, phone calls and submission of documents for verification through emails.

SQAC is able to certify that the Emission reductions from 14.88 MW Bagasse based Co-generation by M/s. Utopian Sugars Ltd., Dist. Solapur, Maharashtra, India. (UCR ID – **442**) for the period **02/12/2014 to 31/12/2022** amounts to **2,13,678 CoUs (2,13,678 tCO_{2eq})**

Appendix 1. Abbreviations

Abbreviations	Full texts
PP/PO	Project Proponent / Project Owner
PA	Project Aggregator
PPA	Power Purchase Agreement
ER	Emission Reduction
COUs	Carbon offset Units.
tCO2e	Tons of Carbon Dioxide Equivalent
CDM	Clean Development Mechanism
SDG	Sustainable Development Goal
CAR	Corrective Action Request
CR	Clarification Request
FAR	Forward Action Request
GHG	Green House Gas
UCR	Universal Carbon Registry
MR	Monitoring report
PCN	Project Concept Note
VR	Verification Report
VS	Verification Statement
COD	Commercial Operation Date

Appendix 2. Competence of team members and technical reviewers

Sr. No.	Role	Name	Education Qualification	Related Experience
1.	Team Leader / Lead Verifier / Validator	Santosh Nair	BE (Chemical) Lead Auditor in ISO 9001,14001, 45001,13485,22301,22000,27001,14064-1,2,3	Carbon Verifier for all major sectors such as Wind, Solar, Hydro, Biomass, Biogas, Waste Heat Recovery, Biofuel, etc.
2.	Technical reviewer	Praful Shinganapurkar	BE (Mechanical) Certified Energy Auditor Lead Auditor in ISO 9001,14001 & 45001	Carbon Verifier for all major sectors such as Wind, Solar, Hydro, Biomass, Biogas, Waste Heat Recovery, Biofuel, etc.

Appendix 3. Document reviewed or referenced

Sr No	Author	Title	Provider
1	Climekare Sustainability Pvt Ltd.	Project Concept Note V1 (PCN)	Climekare Sustainability Pvt Ltd.
2	Climekare Sustainability Pvt Ltd.	Monitoring Report V1 (MR)	Climekare Sustainability Pvt Ltd.
3	Climekare Sustainability Pvt Ltd.	Emission Reduction calculation sheet (ER)	Climekare Sustainability Pvt Ltd.
4	Utopian Sugars Limited, Kacharewadi,	Bagasse Consumption (Annexure B)	Climekare Sustainability Pvt Ltd.
5	Maharashtra Pollution Control Board	Consent to operate	Climekare Sustainability Pvt Ltd
6	Maharashtra State Electricity Distribution Co. Ltd.	Credit notes	Climekare Sustainability Pvt Ltd.
7	Utopian Sugars Limited, Kacharewadi	Daily Generation details	Climekare Sustainability Pvt Ltd.

8	Adept Fluidyne Pvt Ltd.	Calibration Certificates (Flow meter)	Climekare Sustainability Pvt Ltd.
9	Utopian Sugars Limited, Kacharewadi	Invoices	Climekare Sustainability Pvt Ltd
10	Utopian Sugars Limited, Kacharewadi	Joint Meter Readings	Climekare Sustainability Pvt Ltd
11	Mahatransco- Maharashtra State Electricity Transmission Co. Ltd.	Commission Certificates	Climekare Sustainability Pvt Ltd
12	Maharashtra State Electricity Distribution Co. Ltd. & Utopian Sugars Limited, Kacharewadi,	Power Purchase Agreement	Climekare Sustainability Pvt Ltd.
13	Directorate of Steam Boiler	Boiler Certificate	Climekare Sustainability Pvt Ltd
14	Ministry of Environment, Forest & Climate Change Impact Assessment Division	Environmental Clearance	Climekare Sustainability Pvt Ltd
15	Maharashtra State Electricity Transmission Co Ltd	Memorandum of Understanding	Climekare Sustainability Pvt Ltd
16	Government of Maharashtra, Food, Civil Supply and Consumer Protection Department Legal Metrology Organisation	Certificate of Verification	Climekare Sustainability Pvt Ltd
17	Sai Services	Calibration Certificates (Steam flow)	Climekare Sustainability Pvt Ltd.

Appendix 4. Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

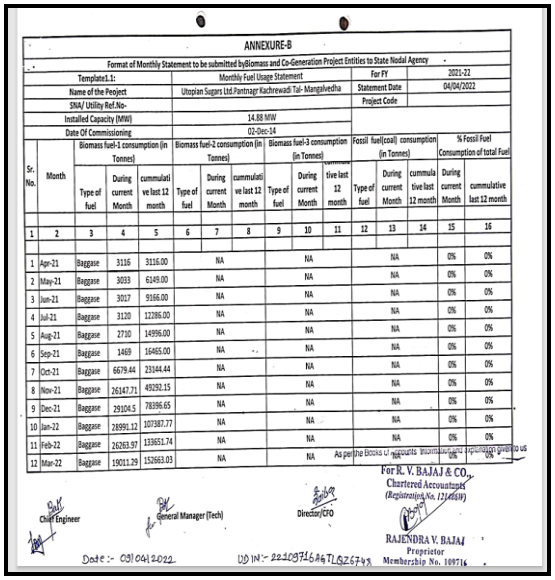
CL ID	00	**Section no.**		**Date:** DD/MM/YYYY
Description of CL				
n/a				
Project Owner's response				**Date:** DD/MM/YYYY
n/a				
Documentation provided by Project Owner				
n/a				
UCR Project Verifier assessment				**Date:** DD/MM/YYYY
n/a				

Table 2. CARs from this Project Verification

CAR ID	00	**Section no.**		**Date:** DD/MM/YYYY
Description of CAR				
n/a				
Project Owner's response				**Date:** DD/MM/YYYY
n/a				
Documentation provided by Project Owner				
n/a				
UCR Project Verifier assessment				**Date:** DD/MM/YYYY
n/a				

Table 3. FARs from this Project Verification

FAR ID	00	**Section no.**		**Date:** DD/MM/YYYY
Description of FAR				
n/a				
Project Owner's response				**Date:** DD/MM/YYYY
n/a				
Documentation provided by Project Owner				
n/a				
UCR Project Verifier assessment				**Date:** DD/MM/YYYY
n/a				



ANNEXURE-B

Format of Monthly Statement to be submitted byBiomass and Co-Generation Project Entities to State Nodal Agency

Template1.1:	Monthly Fuel Usage Statement	For FY	2021-22
Name of the Peoject	Utopian Sugars Ltd.Pantnagr Kacherwadi Tal- Mangalvedha	Statement Date	04/04/2022
SNA/ Utility Ref.No-		Project Code	
Installed Capacity (MW)	14.88 MW		
Date Of Commissioning	02-Dec-14		

Sr. No.	Month	Biomass fuel-1 consumption (in Tonnes)			Biomass fuel-2 consumption (in Tonnes)			Biomass fuel-3 consumption (in Tonnes)			Fossil fuel(coal) consumption (in Tonnes)			% Fossil Fuel Consumption of total Fuel	
		Type of fuel	During current Month	cummulative last 12 month	Type of fuel	During current Month	cummulative last 12 month	Type of fuel	During current Month	cummulative last 12 month	Type of fuel	During current Month	cummulative last 12 month	During current Month	cummulative last 12 month
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Apr-21	Baggase	3116	3116.00	NA			NA			NA			0%	0%
2	May-21	Baggase	3033	6149.00	NA			NA			NA			0%	0%
3	Jun-21	Baggase	3017	9166.00	NA			NA			NA			0%	0%
4	Jul-21	Baggase	3120	12286.00	NA			NA			NA			0%	0%
5	Aug-21	Baggase	2710	14996.00	NA			NA			NA			0%	0%
6	Sep-21	Baggase	1469	16465.00	NA			NA			NA			0%	0%
7	Oct-21	Baggase	6679.44	23144.44	NA			NA			NA			0%	0%
8	Nov-21	Baggase	26147.71	49292.15	NA			NA			NA			0%	0%
9	Dec-21	Baggase	29104.5	78396.65	NA			NA			NA			0%	0%
10	Jan-22	Baggase	28991.12	107387.77	NA			NA			NA			0%	0%
11	Feb-22	Baggase	26263.97	133651.74	NA			NA			NA			0%	0%
12	Mar-22	Baggase	19011.29	152663.03	NA			NA			NA			0%	0%

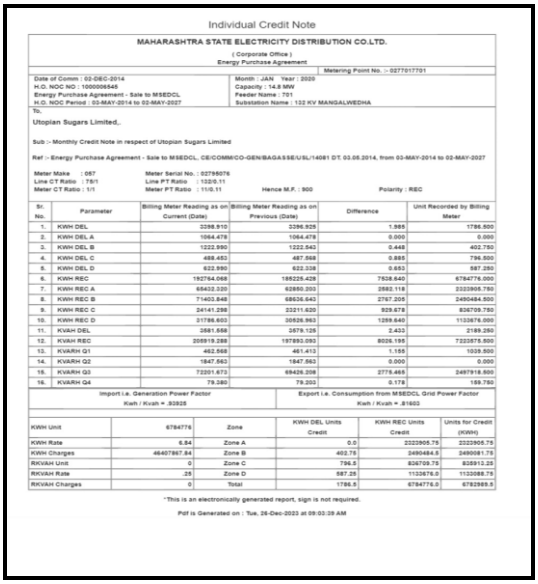
As per the Books of accounts, Information and explanation given to us

For R. V. BAJAJ & CO.,
Chartered Accountants
(Registration No. 121436W)

RAJENDRA V. BAJAJ
Proprietor
Membership No. 109716

Chief Engineer | General Manager (Tech) | Director/CFO

Date :- 08/04/2022 UDIN:- 22109716AGZ6743



Individual Credit Note

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO.LTD.

(Corporate Office)
Energy Purchase Agreement

Metering Point No. :- 0277017701

Date of Comm : 02-DEC-2014
H.O. NOC NO : 1000006546
Energy Purchase Agreement - Sale to MSEDCL
H.O. NOC Period : 03-MAY-2014 to 02-MAY-2027

Month : JAN Year : 2020
Capacity : 14.8 MW
Feeder Name : 701
Substation Name : 132 KV MANGALWEDHA

To,
Utopian Sugars Limited.,

Sub :- Monthly Credit Note in respect of Utopian Sugars Limited

Ref :- Energy Purchase Agreement - Sale to MSEDCL. CE/COMM/CO-GEN/BAGASSE/USL/14081 DT. 03.05.2014, from 03-MAY-2014 to 02-MAY-2027

Meter Make : 057
Line CT Ratio : 75/1
Meter CT Ratio : 1/1
Meter Serial No. : 02795076
Line PT Ratio : 1220.11
Meter PT Ratio : 11/0.11
Hence M.F. : 900
Polarity : REC

Sr. No.	Parameter	Billing Meter Reading as on Current (Date)	Billing Meter Reading as on Previous (Date)	Difference	Unit Recorded by Billing Meter
1.	KWH DEL	3288.910	3296.925	1.985	1786.500
2.	KWH DEL A	1064.478	1064.478	0.000	0.000
3.	KWH DEL B	1222.990	1222.542	0.448	402.750
4.	KWH DEL C	488.463	487.568	0.895	796.500
5.	KWH DEL D	622.990	622.338	0.653	587.280
6.	KWH REC	192764.068	185225.428	7538.640	6784776.000
7.	KWH REC A	65402.320	62880.203	2882.118	2323905.750
8.	KWH REC B	71403.846	68636.640	2767.205	2490484.500
9.	KWH REC C	24141.298	23211.620	929.678	836709.750
10.	KWH REC D	31796.602	30826.963	1289.640	1160676.000
11.	KVAH DEL	3681.568	3679.125	2.432	2189.250
12.	KVAH REC	205919.288	197893.093	8026.195	7223575.500
13.	KVARH Q1	462.568	461.413	1.155	1039.500
14.	KVARH Q2	1847.562	1847.562	0.000	0.000
15.	KVARH Q3	72201.673	69426.208	2775.465	2497918.500
16.	KVARH Q4	79.380	79.202	0.178	159.750

Import i.e. Generation Power Factor Kwh / Kvah = .93825

Export i.e. Consumption from MSEDCL Grid Power Factor Kwh / Kvah = .81602

KWH Unit	6784776	Zone	KWH DEL Units Credit	KWH REC Units Credit	Units for Credit (KWH)
KWH Rate	6.84	Zone A	0.0	2323905.75	2323905.75
KWH Charges	46407867.84	Zone B	402.75	2490484.5	2490081.75
RKVAH Unit	0	Zone C	796.5	836709.75	835912.25
RKVAH Rate	.25	Zone D	587.25	1153878.0	1153088.75
RKVAH Charges	0	Total	1786.5	6784776.0	6782989.5

*This is an electronically generated report, sign is not required.

Pdf is Generated on : Tue, 26-Dec-2023 at 09:03:39 AM

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701
Fax: 24024068 /24023515
Website: http://mpcb.gov.in
E-mail: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd - 4th Floor,
Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E)
Mumbai - 400 022

Ref/LSI
Consent No: Format 1.0/BO/CAC-CELL/UAN No. 0000005090 /R/CAC- 161000033
Date: 16/12/2016

To,
M/s. Utopian Sugars Ltd.,
G. No. 386, 387, 381, 384, 389, Vill. Kacharewadi,
Tal. Mangalwedha, Dist. Solapur.

Subject : Renewal of Consent to Operate of 3500 TCD Sugar & 14.8 MW Co-generation unit under RED category.

Ref : 1. Consent to Operate granted by the Board vide No. BO/CAC-CELL/EIC No. PN-25545-15/R/CAC- 14981 dtd. 01.12.2015.

2. Minutes of CAC meeting held on 16/09/2016.

Your application: UAN No. 0000005090.
Dated: 03/06/2016.

For: Renewal of Consent to Operate of 3500 TCD Sugar & 14.8 MW Co-generation unit under RED category, under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

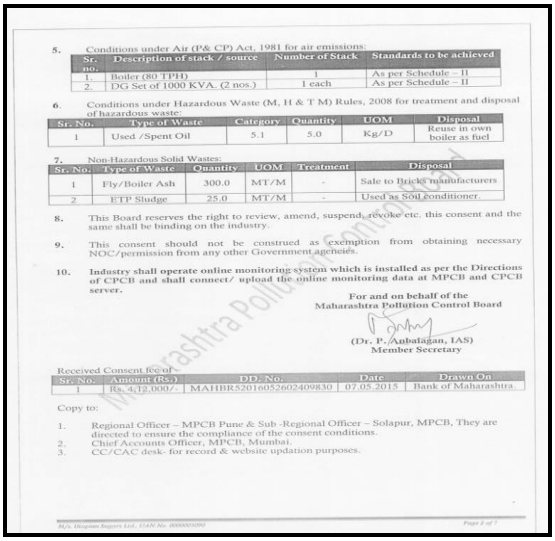
1. The consent is granted for a period from **01.08.2016 to 31.07.2017.**
2. The actual capital investment of the industry is Rs. **206.00 Cr.** (As per C. A. Certificate submitted by industry)
3. The Consent is valid for the manufacture of –

Sr.No.	Product / Unit	Product Name	Maximum Quantity in MT/M
1		Sugar	12600
2		Bagasse	31500
3		Press mud	3920
4		Molasses	4200
5		Co-generation Power	14.8 MW

(The cane crushing Capacity of Sugar Industry shall not exceed 3500 TCD)

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	340 (Sugar 230 + Co-gen 110)	As per Schedule -I	110 CMD 100% recycle & 230 CMD on land for irrigation
2.	Domestic effluent	30	As per Schedule -I	On land for irrigation



5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler (80 TPH)	1	As per Schedule – II
2.	DG Set of 1000 KVA. (2 nos.)	1 each	As per Schedule – II

6. Conditions under Hazardous Waste (M, H & T M) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type of Waste	Category	Quantity	UOM	Disposal
1	Used /Spent Oil	5.1	5.0	Kg/D	Reuse in own boiler as fuel

7. Non-Hazardous Solid Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	Fly/Boiler Ash	300.0	MT/M	-	Sale to Bricks manufacturers
2	ETP Sludge	25.0	MT/M	-	Used as Soil conditioner.

8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
10. Industry shall operate online monitoring system which is installed as per the Directions of CPCB and shall connect/ upload the online monitoring data at MPCB and CPCB server.

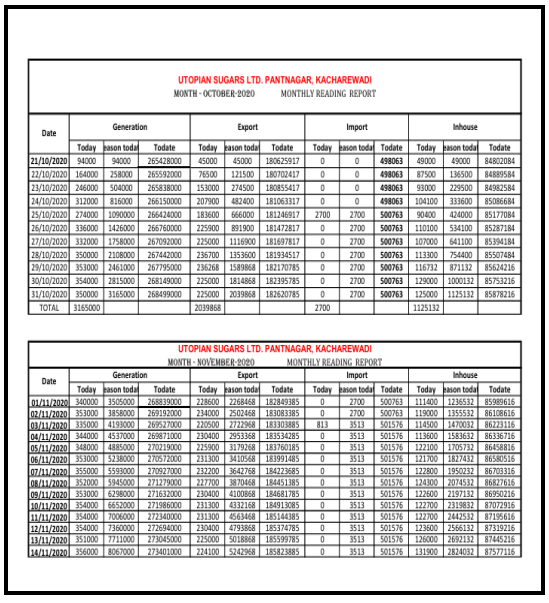
For and on behalf of the
Maharashtra Pollution Control Board

(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of-

Sr.No.	Amount (Rs.)	DD No.	Date	Drawn On
1	Rs. 4,12,000/-	MAHBR52016052602409830	07.05.2015	Bank of Maharashtra

Copy to:
1. Regional Officer – MPCB Pune & Sub -Regional Officer – Solapur, MPCB, They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

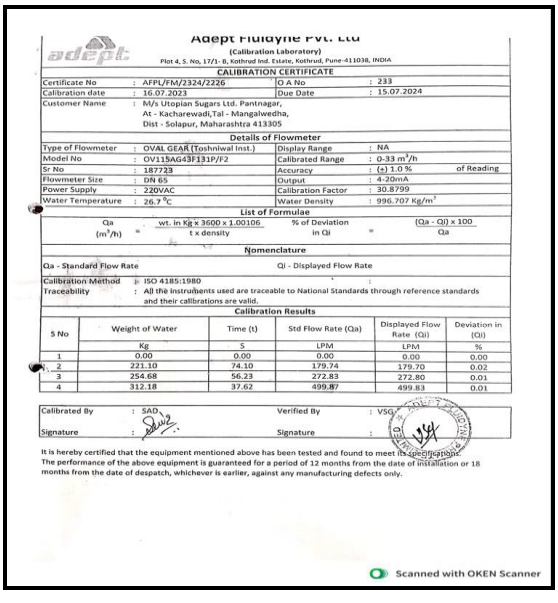


UTOPIAN SUGARS LTD. PANTNAGAR, KACHAREWADI
MONTH - OCTOBER-2020 MONTHLY READING REPORT

Date	Generation			Export			Import			Inhouse		
	Today	eason toda	Todate	Today	eason toda	Todate	Today	eason toda	Todate	Today	eason toda	Todate
21/10/2020	94000	94000	26542800	45000	45000	18062591?	0	0	498063	49000	49000	84802084
22/10/2020	164000	258000	26559200	76500	121500	180702417	0	0	498063	87500	136500	84889584
23/10/2020	246000	504000	26583800	153000	274500	180855417	0	0	498063	93000	229500	84982584
24/10/2020	312000	816000	26615000	207900	482400	181063317	0	0	498063	104100	333600	85086684
25/10/2020	274000	1090000	26642000	183600	666000	181246917	2700	2700	500763	90400	424000	85177084
26/10/2020	336000	1426000	26676000	225900	891900	181472817	0	2700	500763	110100	534100	85287184
27/10/2020	332000	1758000	26709200	225000	1116900	181697817	0	2700	500763	107000	641100	85394184
28/10/2020	350000	2108000	26744200	236700	1353600	181934517	0	2700	500763	113300	754400	85507484
29/10/2020	353000	2461000	26779500	236268	1589868	182170785	0	2700	500763	116732	871132	85624216
30/10/2020	354000	2815000	26814900	225000	1814868	182395785	0	2700	500763	129000	1000132	85753216
31/10/2020	350000	3165000	26849900	225000	2039868	182620785	0	2700	500763	125000	1125132	85878216
TOTAL	3165000			2039868			2700			1125132		

UTOPIAN SUGARS LTD. PANTNAGAR, KACHAREWADI
MONTH - NOVEMBER-2020 MONTHLY READING REPORT

Date	Generation			Export			Import			Inhouse		
	Today	eason toda	Todate	Today	eason toda	Todate	Today	eason toda	Todate	Today	eason toda	Todate
01/11/2020	340000	3505000	26883900	228600	2268468	182849385	0	2700	500763	111400	1236532	85989616
02/11/2020	353000	3858000	26918200	234000	2502468	183083385	0	2700	500763	119000	1355532	86108616
03/11/2020	335000	4193000	26952700	220500	2722968	183303885	813	3513	501576	114500	1470032	86223116
04/11/2020	344000	4537000	26987100	230400	2953368	183534285	0	3513	501576	113600	1583632	86336716
05/11/2020	348000	4885000	27021900	225900	3179268	183760185	0	3513	501576	122100	1705732	86458816
06/11/2020	353000	5238000	27057200	231300	3410568	183991485	0	3513	501576	121700	1827432	86580516
07/11/2020	355000	5593000	27092700	232200	3642768	184223685	0	3513	501576	122800	1950232	86703316
08/11/2020	352000	5945000	27127900	227700	3870468	184451385	0	3513	501576	124300	2074532	86827616
09/11/2020	353000	6298000	27163200	230400	4100868	184681785	0	3513	501576	122600	2197132	86950216
10/11/2020	354000	6652000	27198600	231300	4332168	184913085	0	3513	501576	122700	2319832	87072916
11/11/2020	354000	7006000	27234000	231300	4563468	185144385	0	3513	501576	122700	2442532	87195616
12/11/2020	354000	7360000	27269400	230400	4793868	185374785	0	3513	501576	123600	2566132	87319216
13/11/2020	351000	7711000	27304500	225000	5018868	185599785	0	3513	501576	126000	2692132	87445216
14/11/2020	356000	8067000	27340100	224100	5242968	185823885	0	3513	501576	131900	2824032	87577116



Adept Fluidyne Pvt. Ltd
(Calibration Laboratory)
Plot 4, S. No, 17/1- B, Kothrud Ind. Estate, Kothrud, Pune-411038, INDIA

CALIBRATION CERTIFICATE

Certificate No	: AFPL/FM/2324/2226	O A No	: 233
Calibration date	: 16.07.2023	Due Date	: 15.07.2024
Customer Name	: M/s Utopian Sugars Ltd. Pantnagar, At - Kacharewadi,Tal - Mangalwedha, Dist - Solapur, Maharashtra 413305		

Details of Flowmeter

Type of Flowmeter	: OVAL GEAR (Toshniwal Inst.)	Display Range	: NA
Model No	: OV115AG43F131P/F2	Calibrated Range	: 0-33 m^3/h
Sr No	: 187723	Accuracy	: (±) 1.0 % of Reading
Flowmeter Size	: DN 65	Output	: 4-20mA
Power Supply	: 220VAC	Calibration Factor	: 30.8799
Water Temperature	: 26.7 °C	Water Density	: 996.707 Kg/m^3

List of Formulae

Qa (m^3/h) = wt. in Kg x 3600 x 1.00106 / t x density = % of Deviation in QI = (Qa - QI) x 100 / Qa

Nomenclature

Qa - Standard Flow Rate
QI - Displayed Flow Rate

Calibration Method : ISO 4185:1980
Traceability : All the instruments used are traceable to National Standards through reference standards and their calibrations are valid.

Calibration Results

S No	Weight of Water	Time (t)	Std Flow Rate (Qa)	Displayed Flow Rate (QI)	Deviation in (QI)
	Kg	S	LPM	LPM	%
1	0.00	0.00	0.00	0.00	0.00
2	221.10	74.10	179.74	179.70	0.02
3	254.68	56.23	272.83	272.80	0.01
4	312.18	37.62	499.87	499.83	0.01

Calibrated By : SAD
Signature :
Verified By : VSG
Signature :

It is hereby certified that the equipment mentioned above has been tested and found to meet its specification. The performance of the above equipment is guaranteed for a period of 12 months from the date of installation or 18 months from the date of despatch, whichever is earlier, against any manufacturing defects only.

Utopian Sugars Pvt Ltd,Pantnagar Kacharewadi.
Co-generation Power Plant 14.8 M.W. Tal. Mangalwedha, Dist. Solapur

Phone- (02186)226655(Rgd.Office) E mail- utopiansugars@rediffmail.com

Regd. No. -U15421PN2010PLC135737/10-03-2010

ANNEXURE-B
INVOICE For 14.8 MW

Invoice No. 01 for the month of Dec. 2014 Date: 02/01/2015
Name of the Generator: Utopian Sugars Ltd.Kachrewadi
Name of the Board : Maharashtra State Electricity Distribution Company Ltd.

C. T. Ratio connected -	75/1 Amp	Date of Commissioning-	02-Dec-14
P. T. Ratio Connected-	132/V3KV/110/V3V		
Scale Factor (If any)-	1	Installed Generation Capacity-	14.88 MW
Multiplying Factor-	900	Surplus Generation Capacity-	00 MW
Meter Make-	Elster Alfa A1800		
Meter Number-			

KWH		KVARH	
Previous Reading-	24	Previous Reading-	11
Current Reading	5022	Current Reading	1856
(A) Difference-	4998	(A) Difference-	1845
(B) Difference X M. F. -	4498200	(B) Difference X M. F. -	1660500
% Ratio- KVARH/KWH=	36.91 %		

(As per EPA Dated 03/05/2014)

KWH Exported	Net Billed KWH	Unit Rate	Amount	Shortfall	Penalty KVARH	Amount of Penalty
4498200	4498200	6.27	28203714	0	0	0

Less: Penalty Amount- 0
Less: Additional Demand Charges- 0
Total Dues in rupees- 28203714

Rupees in word: Two Crore Eighty Two Lakhs Three Thousand Seven Hundred Fourteen Only.

Total KVARH delivered is 36.91 % of total KWH

For,
Utopian Sugars Ltd.Kachrewadi.

Electrical Engineer | Chief Engineer | Chief Accountant | General Manager

---

MAHATRANSCO
MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.
CIN:U40109 MH2005SGC153646

From:
Name of Office: Office of the Executive Engineer, MSETCL, Testing Division, Solapur.
Office address: Old Mill Compound, Solapur 413001.
Contact No.: Tel. & Fax No. – 0217-2723627
(O) 2322920 (P) 2345616.
E-mail ID: ee6250@mahatransco.in

To:
The Superintending Engineer, MSETCL T&C Circle, Pune.

No. EE/Test/SHP/Tech/1073 Date: 28/11/2014

Sub: Commissioning of ABT meters for 132 kV Utopian sugar.

Ref: EE/EHV/CD-III/Solapur/1820 dated 26/11/2014.

Following ABT meters are commissioned in respect of M/s Utopian Sugar Pvt. Ltd. at Kachrewadi Tal: Mangalwedha Dist Solapur.
ABT meters installed details as below.

Sr. No.	Name of bay	Plant end 132 kV Pandharpur		Plant end 132 kV Welspun line	
		Main meter	Check meter	Main meter	Check meter
1	MAKE	SECURE	SECURE	SECURE	SECURE
2	Model	Apex 100	Apex 100	Apex 100	Apex 100
3	Serial No.	MSP54868	MSP54869	MSP54870	MSP54871
4	CTR	800/1A	800/1A	800/1A	800/1A
5	PTR	132kV/110V	132kV/110V	132kV/110V	132kV/110V
6	CLASS	0.2S	0.2S	0.2S	0.2S
7	Import MWH reading	1366	1344	1095.5	1113.0
8	Export MWH reading	452	452	470.5	470.5

This is for your information & necessary action please.

Executive Engineer
Testing Division, Solapur

Copy s.w.rs.to:
The Superintending Engineer, EHV Construction Circle, Pune.

Copy f.w.c. to:
1) The Executive Engineer, EHV Construction Division-III, Solapur.
2) The Executive Engineer, Trans O&M Division, Solapur.
Copy to:
1) The Addl. Executive Engineer 220kV Substation, Bale. As a ABT nodal officer.
2) The Deputy Executive Engineer 132 kV Substation, Mangalwedha.
3) M/s Utopian Sugar Pvt. Ltd. Kachrewadi Tal: Mangalwedha Dist Solapur.

MAHATRANSCO
MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.
CIN:U40109 MH2005SGC153646

From:
Name of Office: Office of the Executive Engineer, MSETCL, Testing Division, Solapur.
Office address: Old Mill Compound, Solapur 413001.
Contact No.: Tel. & Fax No. – 0217-2723627
(O) 2322920 (P) 2345616.
E-mail ID: ee6250@mahatransco.in

To:
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2) The Deputy Executive Engineer 132 kV Substation, Mangalwedha.
3) M/s Utopian Sugar Pvt. Ltd. Kachrewadi Tal: Mangalwedha Dist Solapur.

Energy Purchase Agreement
(EPA)

Between

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

&

M/s. UTOPIAN SUGARS LIMITED, KACHAREWADI,
TAL- MANGALWEDHA, DIST- SOLAPUR.

Based on MERC (Suo- Motu) Order Dt. 22.03.2013, MERC RE Regulations & further subsequent MERC Orders

Ref. No. C.E/COMM/CO-GEN/BAGASSE/ USL / 14081 **DT.** 03-05 **, 2014.**

Note : This EPA is applicable for the Co-gen project based on **Bagasse, Bio-mass, Bio-gas, Agricultural Waste such as Rice husk, Groundnut shells etc.,**

भारतीय गैर न्यायिक
एक सौ रुपये
Rs. 100
रु. 100
ONE HUNDRED RUPEES
भारत INDIA
INDIA NON JUDICIAL
महाराष्ट्र MAHARASHTRA KS 123545

Agreement
Utopian Sugars Ltd
Mangalwedha
Mahesh
16 APR 2014

Energy Purchase Agreement

This agreement is executed at Mumbai on 29th day of April, 2014

Between:

M/s. Utopian Sugars Ltd. Kacharewadi Tal. Mangalwedha, Dist. Solapur ("M/s. USL") i.e. A Public Limited Sugar Factory registered under the Indian Companies Act, 1956, and having its registered office at Gat No-64, Karad Road, Near Govt Warehouse, Isbavi, Pandharpur-413304 and factory at Kacharewadi, Tal- Mangalwedha, Dist- Solpaur- 413305, Maharashtra State, represented by its **Chairman** hereinafter referred to as 'Generator / Developer' (which expression shall unless

For UTOPIAN SUGARS LTD
CHAIRMAN
1
For MSEDCL
Executive Director (Comm)

भारतीय गैर न्यायिक
एक सौ रुपये
Rs. 100
रु. 100
ONE HUNDRED RUPEES
भारत INDIA
INDIA NON JUDICIAL
महाराष्ट्र MAHARASHTRA KS 123546

Agreement
Utopian Sugars Ltd
Mangalwedha
Mahesh
16 APR 2014

repugnant to the subject or context or meaning thereof deemed to include its successors, representatives and permitted assignees) as party of the FIRST PART,

AND

Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)(formerly Maharashtra State Electricity Board, MSEB), a company formed and registered under the Companies Act,1956 (1 of 1956) as per the Government of Maharashtra's Notification No. Reform. 1005/CR-9061 (1)/NRG-5 dated 4th June 2005, having its registered office at Prakashgad, Prof. Anant Kanekar Marg, Bandra (East), Mumbai 400051 formerly the Maharashtra State Electricity MSEDCL, a statutory MSEDCL constituted under the erstwhile Electricity (Supply) Act 1948,

For UTOPIAN SUGARS LTD
CHAIRMAN
2
For MSEDCL

Sai Services

(Calibration Services)

A/P – Mahalung, Tal – Malshiras, Dist – Solapur, Maharashtra, Pin – 413112

CALIBRATION CERTIFICATE

Certificate No	: SS/DPT/1516/1562	O A No	: 103
Calibration date	: 27.08.2015	Due Date	: 26.08.2016
Customer Name	: M/s Utopian Sugars Ltd. Pantnagar, At - Kacharewadi,Tal - Mangalwedha, Dist - Solapur, Maharashtra 413305		

Details of Transmitter

Type of Transmitter	: Flow Transmitter	Display Range	: 0-85.50 TPH
Model No/S No	: ST700 / 14W31C4000000763543	Calibrated Range	: 0-85.50 TPH
Tag No	: 01_FT_101	Accuracy	: (±) 1.0 % of Reading
Location	: SH Steam Flow M/M	Output	: 4-20mA
Power Supply	: 24VDC	Calibration Factor	: 1
Calibration Method	: ISO 4185:1980	Flow Charactristic	: Square Root
Traceability	: All the instruments used are traceable to National Standards through reference standards and their calibrations are valid.		

Calibration Results

S No	Differtial Pressure MMWC	Flow TPH	Output mA	Displayed Flow TPH	Deviation %
1	0.00	0.00	4.00	0.00	0.000
2	750.00	21.38	5.00	21.30	0.001
3	1500.00	42.75	8.00	42.70	0.000
4	2250.00	64.13	13.00	64.05	0.001
5	3000.00	85.50	20.00	85.50	0.000

Calibrated & Verified By : Samir Sayyad

Signature :

It is hereby certified that the equipment mentioned above has been tested and found to meet its specifications.
The Calibration of the above equipment is guaranteed for a period of 12 months from the date of inspection.

FORM VI

Directorate of Steam Boilers

CERTIFICATE FOR USE OF A BOILER

(Regulation 389)

NO.: 23711053100023317

Registry Number of Boiler - MR/16351	Type of Boiler - WATER TUBE
Boiler Rating - 4526 sq.mtr.	
Maximum Continuous Evaporation - 82500.00 kg. Per hr.	Place and year of manufacture - AURANGABAD-2014
Name of Owner - UTOPIAN SUGARS PVT. LTD.,	
Situation of Boiler - AT-KACHAREWADI,TAL- MANGALWEDHA SOLAPUR 413305	

Repairs - 2015 - 2016 : Few FSH & SSH coils straightened & straight pieces renewed. 2018 : 04 Nos. Eco coils renewed. (Modification) H.S. increased 4526 to 4698m2. 2021 : 02 Nos. Eco coil bend partially renewed. 2022 : All Eco coils renewed. 2023 : Front w/w bottom header to middle header all tubes & biogas burner all tubes renewed.

Remark - Boiler to be entirely bared at the time of next annual inspection.

Hydraulically Tested on 05/10/2023 to **130.00** kg. per sq. cm.

I hereby certify that the above described Boiler is permitted by me / the Director under the provisions of Section 7/8 of the Boilers Act, No. V of 1923, to be worked at a maximum pressure of 106 kg. per sq. cm. for the period from 05/10/2023 to 04/10/2024

The Loading on 34.29mm, 0.00mm 0.00mm mm diameter SLSVs not to exceed 106 kg/cm2 on steam drum, CWS F/L=18.58mm, R=16.00 mm thick & the loading on 18.65 mm, diameter not to exceed SH WP 92.50 kg/cms2 thick.

Fee Rs. 23000.00 paid on 03/10/2023
Dated at Tuesday this 31stOctober, 2023

Validity unknown

Digitally Signed by ANIL MADHAVRAO ZUNZURE (GOVERNMENT OF MAHARASHTRA)
Date : 01-Nov-2023 07:47:45 IST

ANIL MADHAVRAO ZUNZURE
Joint Director,
Maharashtra State,SOLAPUR
Approved by Joint Director,
SOLAPUR on dt.31/10/2023

THIS CERTIFICATE MUST BE HUNG UP IN THE BOILER HOUSE
OPEN UP BOILER FOR CLEANING AFTER EVERY 08 WEEKS AND KEEP RECORD.

This document is digitally signed and can be verified using 100030072354 on aaplesarkar.mahaonline.gov.in

Scanned with OKEN Scanner

CONDITIONS

(REVERSE OF FORM VI)

1. No structural alteration, addition of renewal shall be made to the boiler otherwisethan in accordance with section 12 of the Act.
2. Under the provisions of Section 8 of the Act this certificate shall cease to be in force:
   a. on the expiry of the period for which it was granted; or
   b. when any accident occurs to the boiler; or
   c. when the boiler is moved the boiler not being vertical boiler the heating surface of which is less than two hundred square feet, or a portable or vehicular boiler; or
   d. save as provided in section 12 of the Act, when any structural alteration, additionor renewal is made in or to the boiler; or
   e. if the Chief Inspector in any particular case so directs when any structural alteration,addition or renewal is made in or to any steam-pipe attached to the boiler; or
   f. on the communication to the owner of the boiler of an order of the Chief Inspectoror Inspector prohibiting its use on the ground that it or any boiler component attached thereto is in a dangerous condition.

Under Section 10 of the Act, when the period of a certificate relating to a boilerhas expired, the owner shall, provided that he has applied before the expiry of that period for a renewal of the certificate be entitled to use the boiler at the maximum pressure entered in the former certificate, pending the issue of orders on the application but this shall not be deemed to authorise the use of a boiler in any of the cases referred to in clauses (b), (c), (d), (e) and (f) of sub-section (1) of section 8 occurring after the expiry of the period of the certificate.

3. The boiler shall not be used at a pressure greater than the pressure entered in the certificate as the maximum pressure nor with the safety valve set to a pressure exceeding such maximum pressure.
4. The boiler shall not be used otherwise than in a condition which the owner reasonably believes to be compatible with safe working.

Note: The particulars and dimensions regarding this boiler maybe obtained by the owner on payment in the prescribed manner on application to the Chief Inspector.

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File No. IA- J-11011/223/2015-IA II (I)
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division
***

Indira Paryavaran Bhawan,
Jal Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated:26th August,2021

To,

Shri. Tukaram Mahadev Devkate,
General Manager M/s Utopian Sugars Limited,
Kacharewadi village, Mangalwedha taluka,
Solapur-413305.

Sub: Proposed Expansion of Sugarcane Crushing Capacity from 4800 TCD To 7500 TCD and Distillery Capacity from 45 KLPD To 200 KLPD (Ethanol) Based on Sugarcane Syrup/"B" Heavy Molasses/"C" Molasses/Denature Spirit as Raw Material" at Kacharewadi, Taluka. Mangalwedha, District. Solapur, Maharashtra by M/s Utopian Sugars Limited- Consideration of Environment Clearance reg.

Sir,

This has reference to your online proposal No. IA/MH/IND2/211517/2019, dated 01st July, 2021 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the proposed Project Expansion of Sugarcane Crushing Capacity from 4800 TCD to 7500 TCD and Distillery Capacity from 45 KLPD To 200 KLPD (Ethanol) Based on Sugarcane Syrup/ "B" Heavy Molasses/ "C" Molasses/Denature Spirit as Raw Material" at Kacharewadi, Mangalwedha tauluka, Solapur district, Maharashtra by M/s Utopian Sugars Limited.

3. The project/activities are covered under category A of item 5 (g) 'Distilleries' and 5 (j) Sugar Industry of the Schedule to the EIA, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC). The proposal has been submitted under the Ministry's EIA Notification, 2006 amendments vide Notification no. S.O. 345(E) dated 17th January 2019 & extension of notification S.O. 750(E) dated 17th February 2020, S.O 980(E) dated 2nd March, 2021. Accordingly, the proposal is appraised as category 'B2' project at Central Level by Expert Appraisal Committee (EAC).

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4. Ministry issued EC for the distillery unit of 45 KLPD **Vide F. No. SEIAA-EC-0000002299 dated 20.07.2020** and it was commissioned in the year 2020 and as per EIA Notification there is no requirement of Environment Clearance for sugar industry having sugarcane crushing capacity is less than 5000 TCD. It was informed that no litigation is pending against the proposal.

5. The details of products and capacity are as under : -

Sr. No.	Unit	Capacity Existing	Proposed	Total	
1.	Sugarcane crushing capacity	4800 TCD	2700 TCD	7500 TCD	
2.	Cogeneration Power Plant	14.8 MW	--	14.8 MW	
3.	Distillery	45 KLPD	155KLPD	200 KLPD	
	Rectified Spirit or	45 KLPD	--	45	Only one product at a time
	Extra Neutral Alcohol or	45 KLPD	--	45	
	Ethanol	45 KLPD	--	45	
	Ethanol	45 KLPD	155 KLPD	200	Utilized for EBP.

6. Existing land area is 344400 m^2; no additional land is required for proposed expansion. Industry will develop greenbelt in an area of 33.34 % i.e. 11.48 ha out of total area of the project. The estimated project cost is Rs.125 Crores. Total capital cost earmarked towards environmental pollution control measures for existing capacity is Rs 34.40 Crores and the recurring cost (operation and maintenance) is about Rs 3.50 Crores per annum. For proposed expansion of project capital cost earmarked towards environmental pollution control measures will be Rs. 19.05 Crores and the recurring cost (operation and maintenance) will be Rs. 1.66 Crores. Total Employment will be 110, out of which 70 persons as direct & 40 persons indirect after expansion. Industry proposes to allocate Rs 94 Lakhs (0.75%) towards Corporate Environment Responsibility.

7. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km distance from the project site. Manganga River is flowing at a distance of 9.12 km in North-West direction.

8. Ambient air quality monitoring was carried out at 2 locations for January 2021 and the monitoring results indicate the ranges of concentrations as: PM10 (69 – 74 ug/m3), $PM_{2.5}$ (29 – 30µg/m3), SO_2 (8 - 10µg/m^3) and NOx (10 - 15µg/m3). As the proposal is a B2 category project baseline data is not required.

9. Total fresh water requirement of the plant will be 121 KLPD out of which 78 KLPD for distillery unit shall be met from ground water and rest 43 KLPD for domestic purpose shall be met from Ujani canal. Sugar effluent of 1095 m3/day