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	02/11/2024
Title of the project activity	26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. Dist. Ahmednagar, Maharashtra.
Project reference no. (as provided by UCR Program)	UCR ID: **441**
Name of Entity requesting verification service	M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd.
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	Applied Baseline Methodology: **ACM0006**: Electricity and heat

Standard used)	generation from biomass (Ver. 16) & UCR Standard for Emission Factor
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 26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. Dist. Ahmednagar, Maharashtra. ☒ The Project Owner has correctly described the Project Activity in the Project Concept Note V1 dated 15/06/2024 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 the monitoring methodology and has calculated emission reductions estimates correctly and conservatively. ☒ The Project Activity is generating GHG emission reductions amounting to the estimated **60,871 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: **441** dated 02/11/2024
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 26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. Dist. Ahmednagar, Maharashtra, India. UCR approved Project ID**: 441**, to establish number of CoUs generated by project over the crediting period from **01/01/2021 - 31/12/2023** (3 years 00 months)

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, ACM0006: Electricity and heat generation from biomass (Ver. 16) &
UCR Standard for 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 26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd., Dist. Ahmednagar, Maharashtra. (UCR ID – **441**) for the period **01/01/2021 to 31/12/2023** amounts to **60,871 CoUs** (**60,871 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, Climekare Sustainability Pvt Ltd. 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 report (Monthly fuel usage statement, Commissioning Certificates, Credit notes, Invoices, Consent to operate Sugar plus Cogen unit, Environment Clearance, Calibration Certificates, Power Purchasing Agreement, Certificate of Verification (Load Cell test Certificate) 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	Ahmednagar, Maharashtra	12/08/2024
2	Supporting documents provided before, during, and after the verification.	Ahmednagar, Maharashtra	12/08/2024

C.3. Interviews

Sr. No.	Interview				
	Name	Designation	Affiliation	Date	Subject
1	Mr. Nalge Bharat	Co-gen Manager	M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd.	12/08/2024	Calibration, Commissioning Certificate Compliance, JMR & Invoices, Overview, Power Purchasing Agreement, Meter Photos etc.
2	Mr. Prathamesh Godase	Project Manager - Carbon Credits	Climekare Sustainability Pvt. Ltd.	12/08/2024	Project Overview

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 Reports: Examination of monitoring reports detailing the greenhouse gas (GHG) emission reductions achieved during the specified period. Compliance with Methodologies: Verification that the project adheres to the applied baseline methodology (ACM0006) and UCR standards for emission factors. Off-Site Inspections: Off-site inspections of the project to confirm the implementation and operation of the biomass-based co-generation power plant.
Findings	Upon verification, the project titled "26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd." is identified as a renewable energy project utilizing biomass (bagasse) for power generation. The project is eligible under the ACM0006 methodology for

	electricity and heat generation from biomass, as it meets the criteria of using biomass residues without chemical or biological processing and does not involve fossil fuel co-firing exceeding 25%. Verified 140 TPH Boiler No. – MR 17782 and one each Turbine of 10 MW bearing Serial No. TST -1100-H-037 and 16 MW bearing Serial No. WC 2018 – 134C. The project displaces fossil fuel-based grid electricity, contributing to GHG emission reductions and promoting sustainable development through environmental, social, and economic benefits.
Conclusion	In conclusion, the project titled "26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd." is eligible for carbon credits. The project utilizes renewable biomass (bagasse) to generate electricity and heat, thereby reducing greenhouse gas emissions by displacing fossil fuel-based grid electricity. The project adheres to the ACM0006 methodology for electricity and heat generation from biomass and meets the criteria for renewable energy projects under sectoral scope 01. The project has successfully generated 60,871 tCO_{2eq} of emission reductions during the monitoring period from 2021 to 2023, confirming its compliance and effectiveness in contributing to climate change mitigation.

D.2. General Description of Project Activity

Means of Project Verification	Operational Records: Documentation of the project's operational status, including power generation and usage. Off-Site Inspections: Verification of the project site to ensure compliance with the described activities and equipment. Meter Readings: Continuous monitoring and recording of electricity generation and consumption data. Environmental Impact Assessments: Review of environmental benefits and compliance with regulations.
Findings	Upon verification, it was found that the project is a bagasse-based co-generation power project located in Ahmednagar, Maharashtra. It was successfully commissioned by the Maharashtra State Electricity Transmission Company Limited (MSETCL) and has been operational since August 28, 2019. The project involves setting up an integrated new sugar mill with a crushing capacity of 5000 TCD and a 26 MW bagasse-based co-generation power plant. The primary purpose of this project is to generate electricity using renewable biomass (bagasse), thereby reducing GHG emissions by displacing fossil fuel-dominated grid electricity with biomass-based renewable electricity. The project has generated clean energy, meeting its captive requirements and exporting excess energy to the Maharashtra State Energy Distribution Company Limited (MSEDCL). This initiative contributes to climate change mitigation by reducing anthropogenic GHG emission.

Conclusion	In conclusion, the project titled “26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd.” is a renewable energy initiative that utilizes bagasse, a by-product of sugar production, to generate electricity and heat. Operational since August 28, 2019, the project aims to reduce dependency on fossil fuels by supplying power to the sugar mill and exporting excess electricity to the Maharashtra State Energy Distribution Company Limited (MSEDCL). This initiative not only mitigates greenhouse gas emissions by displacing fossil fuel-based electricity but also contributes to sustainable development through social, environmental, economic, and technological benefits. The project has successfully generated 60,871 tCO_{2eq} in emission reductions over the monitoring period from 2021 to 2023.

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

D.3.1 Application of methodology and standardized baselines

Means of Project Verification	Monitoring of Electricity Data: Power generation from turbine generators and auxiliary consumption are metered and recorded hourly. This data is verified by the power plant manager and reviewed during quarterly meetings. Operational Records: Documentation of operational records and evidence, maintained in hard copies or electronic formats. Calibration of Meters: All meters are checked and calibrated by an independent agency, ensuring accuracy. Internal Audits: An internal audit team reviews daily and monthly reports, data recording procedures, and maintenance reports of the meters.
Findings	Upon verification, it was found that the project activity involves the generation of grid-connected electricity from a 26 MW bagasse-based co-generation power plant. The applied baseline methodology is ACM0006: "Electricity and heat generation from biomass" (Version 16). The project meets the applicability criteria, as it uses 100% bagasse during the crushing season and does not involve biogas production or chemical processing of biomass. The project is not a de-bundled component of a larger project and does not cause double accounting of carbon credits. The project boundary includes all plants generating power and/or heat at the project site and all power plants connected to the grid. The baseline scenario involves the displacement of

	more GHG-intensive electricity generation from the grid. The project successfully avoids fossil fuel emissions by using GHG-neutral biomass, contributing to significant GHG emission reductions.
Conclusion	In conclusion, the project activity involves the generation of grid-connected electricity from a cogeneration power-based project using bagasse as biomass. The methodology ACM0006, Version 16, is applicable as the project meets the criteria, including the use of biomass residues, no chemical or biological processing of biomass, and the project being a new greenfield initiative. The project does not involve biogas production or dedicated biomass plantations, ensuring compliance with the methodology's applicability conditions. Therefore, the application of the methodology and standardized baselines is appropriate and justified for this project.

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

Means of Project Verification	Review of Project Documentation: Examination of all relevant project documents, including the Project Concept Note (PCN), monitoring reports, and any other supporting documents. Off-Site Visits: Conducting off-site inspections to verify the physical implementation of the project and the operational status of the equipment. Interviews: Engaging with project participants, including the project proponent, operators to gather firsthand information. Data Analysis: Analysing the data collected from the project site, including energy generation records, fuel usage, and emission reduction calculations.
Findings	Upon verification, it confirms that the project activity is a 26 MW bagasse-based co-generation power plant, adheres to the ACM0006 methodology for electricity and heat generation from biomass (Version 16). The project employs biomass residues (bagasse) without chemical or biological processing, ensuring compliance with the methodology's criteria. Additionally, the project does not involve biogas production or dedicated biomass plantations, further aligning with the specified conditions. The project effectively displaces fossil fuel-based grid electricity, contributing to significant GHG emission reductions, and meets all the necessary requirements for carbon credit issuance under the UCR protocol.
Conclusion	In conclusion, the project activity involves the generation of grid-connected electricity from a 26

	MW bagasse-based co-generation power plant. The methodology ACM0006, Version 16, is applicable as the project uses biomass residues (bagasse) without any chemical or biological processing prior to combustion. The project does not involve biogas production or dedicated biomass plantations, and it adheres to the criteria for biomass storage and processing. Therefore, the methodology and standardized baseline are applicable, ensuring accurate monitoring and reporting of GHG emission reductions.

D.3.3 Project boundary, sources and GHGs

Means of Project Verification	Project Boundary: Verification will involve confirming the spatial extent of the project boundary, which includes all plants generating power and/or heat at the project site and all power plants connected to the electricity system (grid). Sources and GHGs: Verification will ensure that the project uses GHG-neutral biomass (Bagasse) and avoids fossil fuel emissions. The primary GHG considered is CO_2, with CH_4 and N2O excluded for simplification. Emission Reductions: Verification will involve calculating emission reductions based on the baseline emissions, project emissions, and leakage emissions, ensuring accurate and conservative estimates.
Findings	Upon verification, the project boundary for the 26 MW Bagasse-based Co-generation project includes all plants generating power and/or heat at the project site, whether fired with biomass, fossil fuels, or a combination of both, as well as all power plants connected to the electricity grid.

	The primary source of greenhouse gas (GHG) emissions in the baseline scenario is the burning of fossil fuels in boilers, specifically CO_2 emissions. In the project scenario, emissions from biomass combustion are excluded for simplification. The project successfully avoids fossil fuel emissions by using GHG-neutral biomass (bagasse), thus reducing GHG emissions from in-house cogeneration energy requirements and vehicular emissions from sourcing biomass fuel.
Conclusion	In conclusion, the project boundary for the 26 MW Bagasse-based Co-generation project encompasses all plants generating power and/or heat at the project site, whether fired with biomass, fossil fuels, or a combination of both, as well as all power plants connected to the MSETCL grid. The primary source of greenhouse gas (GHG) emissions in the baseline scenario is the burning of fossil fuels in boilers, specifically carbon dioxide (CO_2). The project activity itself, which uses GHG-neutral biomass (bagasse), does not produce significant GHG emissions, thus effectively avoiding fossil fuel emissions and reducing overall GHG emissions.

D.3.4 Baseline scenario

Means of Project Verification	Electricity Generation Records: Verification of the electricity generated by the project and supplied to Maharashtra State Electricity Transmission Company Limited (MSETCL) grid, ensuring it displaces fossil fuel-based power. Emission Factor: Confirmation of the grid emission factor used to calculate baseline emissions. Fuel Records: Examination of the type and quantity of biomass (bagasse) used, ensuring it aligns with the project's claims. Operational Data: Review of operational records to ensure the project operates as described and meets the criteria for renewable energy generation.
Findings	Upon verification, the baseline scenario for the 26 MW Bagasse-based Co-generation project by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. involves the displacement of more GHG-intensive electricity generation from the Indian grid, which is predominantly fossil fuel-based. Without the project, the equivalent amount of electricity would have been imported from the regional grid, leading to higher carbon emissions. The project, by utilizing biomass (bagasse) for power generation, successfully avoids these emissions, contributing to climate change mitigation by reducing the reliance on fossil fuels and promoting renewable energy sources.
Conclusion	In conclusion, it involves the displacement of more GHG-intensive electricity generation from the Indian grid, which is predominantly sourced

	from fossil fuel-based power plants. By utilizing bagasse, a renewable biomass, the project successfully avoids fossil fuel emissions, thereby reducing GHG emissions. The project replaces an equivalent amount of electricity that would have otherwise been generated by fossil fuel-based power plants, contributing to climate change mitigation by reducing anthropogenic emissions of greenhouse gases.

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 and recorded continuously on an hourly basis. Operational Records: Documentation and archiving of operational records and other evidence in both hard-copy and electronic formats. Calibration of Meters: Regular calibration of all meters by an independent agency to ensure accuracy. Internal Audits: An internal audit team reviews daily reports, monthly reports, data recording procedures, and maintenance reports of the meters.
Findings	Upon verification, the project titled “26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd.” achieved a total GHG emission reduction of 60,871 tCO_{2eq} during the monitoring period from 2021 to 2023. The baseline emissions were calculated as 68,249

	tCO_{2eq}, and project emissions were 6,823 tCO_{2eq}. The project successfully displaced fossil fuel-based electricity with renewable biomass-based electricity, contributing to climate change mitigation by reducing anthropogenic GHG emissions. The findings indicate that the project effectively reduced emissions and met its environmental objectives.
Conclusion	In conclusion, the project activity successfully reduced greenhouse gas emissions by displacing fossil fuel-based electricity with renewable biomass energy. The total emission reductions achieved during the monitoring period from 2021 to 2023 amount to 60,871 tCO_{2eq}. This was calculated by subtracting project emissions and leakage from the baseline emissions, demonstrating the project's effectiveness in mitigating climate change.

D.3.7 Monitoring Report

Means of Project Verification	Operational Records: Documented, collected, and archived in either hard copies or electronic formats. Metered Data: Energy generation is metered by calibrated meters, with steam quantity, temperature, and pressure measured by calibrated meters. Daily and Monthly Reports: Data recorded hourly by operators, collated daily by the engineer in charge, and reviewed monthly by the Plant Head. Internal Audits: Conducted by an internal audit team from a different department to ensure all records are maintained as per the details provided in the Project Concept Note (PCN).

Findings	Upon verification, it confirms that the project successfully generated 60,871 CoUs (Carbon Offset Units) over the monitoring period from January 1, 2021, to December 31, 2023. The project utilized bagasse, a renewable biomass, to generate electricity, thereby reducing greenhouse gas emissions by displacing fossil fuel-based grid electricity. The report highlights the project's compliance with the ACM0006 methodology, its contribution to sustainable development through social, environmental, economic, and technological benefits, and the absence of any significant negative environmental impacts. The project also adhered to all monitoring and verification protocols, ensuring accurate and reliable data collection and reporting.
Conclusion	In conclusion, the 26 MW Bagasse-based Co-generation project by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. the project has successfully achieved significant greenhouse gas (GHG) emission reductions. Over the monitoring period from January 1, 2021, to December 31, 2023, the project generated a total of 60,871 Carbon Offset Units (CoUs) by displacing fossil fuel-based grid electricity with renewable biomass-based electricity. The project has met all the necessary criteria and methodologies, demonstrating effective implementation and contribution to climate change mitigation. Therefore, the conclusion is that the project has successfully achieved its emission reduction targets and is eligible for the issuance of carbon credits.

D.4. Start date, crediting period and duration

Means of Project Verification	Start Date: The project start date is 01/01/2021. Verification can be done through operational records and commissioning reports. Crediting Period: The crediting period is from 01/01/2021 to 31/12/2023. Verification involves reviewing the project registration documents and monitoring reports. Duration: The duration of the crediting period is 3 years. Verification can be confirmed by cross-referencing the project documentation and monitoring period records.
Findings	Upon verification, the project titled "26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd." has a start date of January 1, 2021. The crediting period for this project is three years, spanning from January 1, 2021, to December 31, 2023. This duration is inclusive of both the start and end dates, ensuring that all credited emissions reductions or energy generation activities are in full compliance with the relevant guidelines and accurately reflect the operational reality of the project.
Conclusion	In conclusion, the start date for the crediting period is 01/01/2021. The crediting period corresponding to this monitoring period is 3 years, from 01/01/2021 to 31/12/2023. This ensures that all credited emissions reductions or energy generation activities are in full compliance with the relevant guidelines and accurately reflect the operational reality of the project. There are no permanent changes in the monitoring plan and applied methodology.

D.5. Positive Environmental impacts

Means of Project Verification	Emission Reductions: Verification of the reduction in greenhouse gas emissions, specifically the CO_{2eq} emission reductions of 60,871 tCO_{2eq} achieved by the project. Renewable Energy Generation: Confirmation of the electricity generated using renewable biomass (bagasse) and the amount of power exported to the Maharashtra State Electricity Transmission Company Limited (MSETCL) grid. Environmental Benefits: Assessment of the project's contribution to reducing the use of fossil fuels and minimizing harmful emissions like NOx and SOx. Sustainable Practices: Evaluation of the project's adherence to sustainable practices, such as the proper disposal and utilization of bagasse and compliance with environmental regulations.
Findings	Upon verification, it was found that the project utilizes renewable biomass (bagasse) to generate electricity, significantly reducing greenhouse gas (GHG) emissions by displacing fossil fuel-based power. It has achieved a total reduction of 60,871 tCO_{2eq} over the monitoring period. Additionally, the project minimizes the disposal of excess bagasse, which otherwise could lead to environmental pollution, and reduces ash generation compared to coal combustion. The project also serves as a model for other sugar mills to adopt similar sustainable practices, contributing to broader environmental sustainability.
Conclusion	In conclusion, the project generates renewable energy using biomass, reducing dependency on

	fossil fuels and minimizing greenhouse gas emissions. It has achieved a reduction of 60,871 tCO_{2eq} over the monitoring period. Additionally, the project helps in reducing ash generation and prevents unplanned disposal of bagasse, contributing to better waste management. Overall, the project significantly contributes to climate change mitigation and environmental sustainability.

D.8. Project Owner- Identification and communication

Means of Project Verification	Project Proponent: M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. Aggregator: Climekare Sustainability Pvt. Ltd. Email: sustainability@climekare.com Phone: 98117525603 UCR ID: 336812961 Documentation Review: Examining official documents, such as Factory License, MPCB Consent to Operate for the project activity dated 22/10/2023, Environment Clearance Certificate dated 11/09/2019, Commissioning Certificates to confirm the identity of the project owner. Direct Communication: Engaging directly with the project owner to verify their identity and establish clear lines of communication for the verification process. Public Records Check: Conducting checks on publicly available databases or registries to validate the legal status and ownership details of the project owner.
Findings	Upon verification, the project owner is clearly identified and communicated as the primary

	entity responsible for the 26 MW Bagasse-based Co-generation project in Ahmednagar, Maharashtra. The project owner has effectively communicated their role and responsibilities, including the setup and operation of the co-generation power plant, which utilizes bagasse as a renewable biomass fuel. The project documentation provides comprehensive details about the project owner, including their location, contact information, and their collaboration with Climekare Sustainability Pvt. Ltd. as the project aggregator. This clear identification and communication ensure transparency and accountability in the project's implementation and monitoring processes.
Conclusion	In conclusion, the project owner, M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd., has successfully implemented a 26 MW bagasse-based co-generation power project. The project has been operational since August 28, 2019, and has demonstrated significant environmental benefits by reducing greenhouse gas emissions through the use of renewable biomass. The project has also contributed to local employment and technological advancement. The communication and identification of the project owner are clear and well-documented, ensuring transparency and accountability in the project's execution and monitoring.

Positive Social Impact

Means of Project Verification	Employment Generation: Verification of job creation for both skilled and unskilled workers in the local area for the operation and maintenance of the equipment. Higher Value Jobs: Confirmation of the creation of steady, higher-value jobs and skilled worker positions at the facility. National Energy Security: Evidence of the project's contribution to national energy security by reducing fossil fuel consumption. Technological Advancement: Verification of local capacity building and technological advancement through the project's implementation.
Findings	Upon verification, the project has several positive social impacts. It contributes to employment generation in the local area, creating both skilled and unskilled jobs for the operation and maintenance of the equipment. The project has also created steady higher value jobs and skilled positions at the facility, enhancing the local workforce's capabilities. Additionally, it contributes to national energy security by reducing fossil fuel consumption and promotes technological advancement in the region, helping local people build capacity and stay updated with modern technologies.
Conclusion	In conclusion, the project titled "26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd." has demonstrated significant positive social impacts. It has generated employment opportunities for both skilled and unskilled workers in the local area, contributing to

	the national energy security by reducing fossil fuel consumption. The project has created steady, higher-value jobs and promoted technological advancements, thereby aiding in capacity building among local people. Additionally, it has fostered economic growth by increasing the demand for bagasse, benefiting local sugarcane farmers and supporting the sustainable development of the region.

Sustainable development aspects (if any)

Means of Project Verification	Employment Generation: Verification through employment records and job creation statistics. Environmental Impact: Monitoring reports on GHG emission reductions and compliance with environmental regulations. Technological Advancements: Documentation of technology used and its efficiency in reducing emissions. Economic Benefits: Financial records showing revenue generation and cost savings from the project.
Findings	Upon verification, the project demonstrates significant contributions to sustainable development. Socially, it generates employment for both skilled and unskilled workers, enhancing local livelihoods. Environmentally, it reduces GHG emissions by utilizing renewable biomass (bagasse) instead of fossil fuels, thus contributing to climate change mitigation. Economically, it conserves natural resources like coal and oil and boosts local revenue by increasing the demand for bagasse. Technologically, it promotes the adoption of advanced cogeneration technology,

	encouraging other industries to follow suit and reduce reliance on carbon-intensive energy sources.
Conclusion	In conclusion, the project contributes to social benefits by generating employment for both skilled and unskilled workers, enhancing local technological knowledge, and improving national energy security. Environmental benefits include the reduction of GHG emissions, decreased reliance on fossil fuels, and proper disposal of excess bagasse. Economic benefits are evident through job creation, conservation of natural resources, and increased revenue for local farmers. Technological well-being is promoted by encouraging the adoption of cogeneration power plants, reducing dependence on carbon-intensive grid supply, and improving energy availability and quality. Overall, the project significantly supports sustainable development in the region.

Section E. Internal quality control

Throughout the verification process, meticulous internal quality control measures were implemented to ensure accuracy and reliability. This included regular internal reviews of procedures, documentation, and reports to quickly 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 enhancing 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:ACM0006: Electricity and heat generation from biomass (Ver. 16) & UCR Standard for 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 26 MW Bagasse based Co-generation by M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd. Dist. Ahmednagar, Maharashtra, India. (UCR ID – **441**) for the period **01/01/2021 to 31/12/2023** amounts to **60,871, CoUs (60,871 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	M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd.	Baggase Consumption Report (Monthly Fuel Usage statement)	Climekare Sustainability Pvt Ltd
5	Mahavitaran-Maharashtra State Electricity Distribution Co. Ltd	Commissioning Certificates	Climekare Sustainability Pvt Ltd
6	Maharashtra State Electricity Distribution Co. Ltd.	Credit Notes	Climekare Sustainability Pvt Ltd
7	M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd.	Invoices	Climekare Sustainability Pvt Ltd
8	Maharashtra Pollution Control Board	Consent to operate Sugar plus Cogen unit	Climekare Sustainability Pvt Ltd
9	Environment department	Environmental Clearance	Climekare Sustainability Pvt Ltd.
10	Testcal Combustion Systems	Calibration Certificates	Climekare Sustainability Pvt Ltd.
11	Government of Maharashtra	Boiler Certificates	Climekare Sustainability Pvt Ltd
12	Maharashtra State Electricity Distribution	Power Purchase Agreement	Climekare Sustainability Pvt Ltd

	Co. Ltd. & M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd.		
13	Government of Maharashtra Food, Civil Supply and Consumer Protection Department Legal Metrology	Certificate of Verification (Load Cell test certificate)	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				

Power Purchase Agreement
(PPA)

Between

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD

&

M/S. SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR KARKHANA LTD.,
SHRIGONDA FACTORY,
TAL. SHRIGONDA, DIST. AHMEDNAGAR

(26 MW Installed Capacity)

Based on Rfs No. MSEDCL/PP/NCE/2018/T-05 issued by MSEDCL on dated 07.05.2018

For MSEDCL
Director (Commercial)

Managing Director
Shivajirao Narayanrao Nagawe
Sahakari Sakhar Karkhana Ltd
Shrigonda Factory,Tal.Shrigonda

1

भारतीय गैर न्यायिक
भारत INDIA
रु. 500 FIVE HUNDRED RUPEES
पाँच सौ रुपये Rs. 500
INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA © 2017 © AG 539383

उप कोषागार कार्यालय श्रीगोंदा, जि.अ.नगर
20 JUL 2018

Power Purchase Agreement

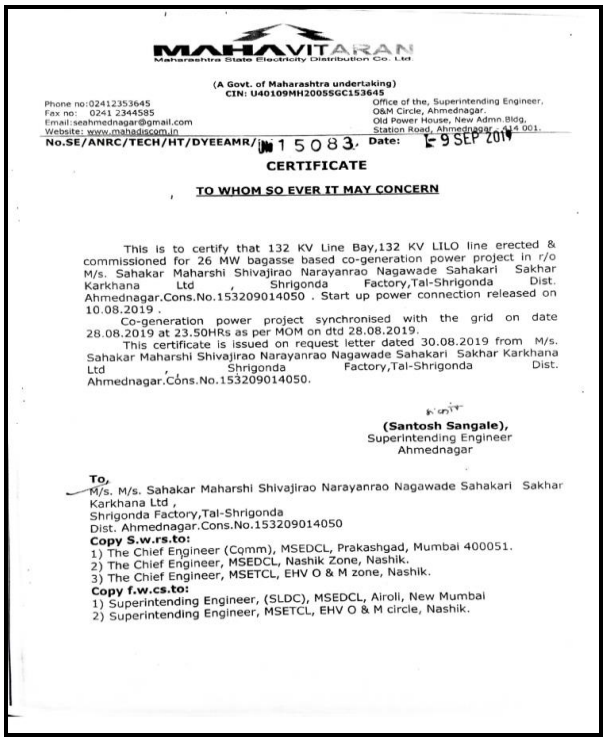
This agreement is executed at Mumbai on 1st of August 2018.

between:

M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd., (Formerly Known as The Shrigonda Sahakari Sakhar Karkhana Limited.,) i.e. A Co-operative Sugar Factory registered under the Co-operative Societies Act 1960 and having factory & registered office at **Shrigonda Factory, Tal. Shrigonda, Dist. Ahmednagar** (Maharashtra State), represented by its **Managing Director** hereinafter referred to as 'Generator' (which expression shall unless repugnant to the subject or context or meaning thereof deemed to include its successors, representatives and permitted assignees) as party of the FIRST PART,

Managing Director
Shivajirao Narayanrao Nagawe
Sahakari Sakhar Karkhana Ltd
Shrigonda Factory,Tal.Shrigonda

For MSEDCL
Director (Commercial)



MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.

(A Govt. of Maharashtra undertaking)
CIN: U40109MH2005SGC153645

Phone no:02412353645
Fax no: 0241 2344585
Email:seahmednagar@gmail.com
Website: www.mahadiscom.in

Office of the, Superintending Engineer,
O&M Circle, Ahmednagar.
Old Power House, New Admn.Bldg,
Station Road, Ahmednagar-414 001.

No.SE/ANRC/TECH/HT/DYEEAMR/ 15083 Date: 19 SEP 2019

CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that 132 KV Line Bay,132 KV LILO line erected & commissioned for 26 MW bagasse based co-generation power project in r/o M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd , Shrigonda Factory,Tal-Shrigonda Dist. Ahmednagar.Cons.No.153209014050 . Start up power connection released on 10.08.2019 .

Co-generation power project synchronised with the grid on date 28.08.2019 at 23.50HRs as per MOM on dtd 28.08.2019.

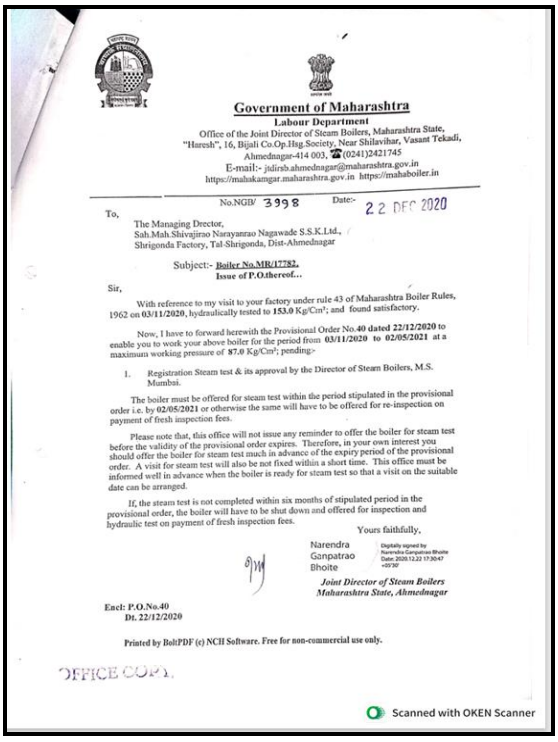
This certificate is issued on request letter dated 30.08.2019 from M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd , Shrigonda Factory,Tal-Shrigonda Dist. Ahmednagar.Cons.No.153209014050.

(Santosh Sangale),
Superintending Engineer
Ahmednagar

To,
M/s. M/s. Sahakar Maharshi Shivajirao Narayanrao Nagawade Sahakari Sakhar Karkhana Ltd ,
Shrigonda Factory,Tal-Shrigonda
Dist. Ahmednagar.Cons.No.153209014050

Copy S.w.rs.to:
1) The Chief Engineer (Comm), MSEDCL, Prakashgad, Mumbai 400051.
2) The Chief Engineer, MSEDCL, Nashik Zone, Nashik.
3) The Chief Engineer, MSETCL, EHV O & M zone, Nashik.

Copy f.w.cs.to:
1) Superintending Engineer, (SLDC), MSEDCL, Airoli, New Mumbai
2) Superintending Engineer, MSETCL, EHV O & M circle, Nashik.



Government of Maharashtra
Labour Department
Office of the Joint Director of Steam Boilers, Maharashtra State,
"Haresh", 16, Bijali Co.Op.Hsg.Society, Near Shilavihar, Vasant Tekadi,
Ahmednagar-414 003. ☎(0241)2421745
E-mail:- jdirsb.ahmednagar@maharashtra.gov.in
https://mahakamgar.maharashtra.gov.in https://mahaboiler.in

No.NGB/ 3998 Date:- 22 DEC 2020

To,
The Managing Director,
Sah.Mah.Shivajirao Narayanrao Nagawade S.S.K.Ltd.,
Shrigonda Factory, Tal-Shrigonda, Dist-Ahmednagar

Subject:- **Boiler No.MR/17782.**
Issue of P.O.thereof...

Sir,

With reference to my visit to your factory under rule 43 of Maharashtra Boiler Rules, 1962 on **03/11/2020**, hydraulically tested to **153.0** Kg/Cm²; and found satisfactory.

Now, I have to forward herewith the Provisional Order No.**40 dated 22/12/2020** to enable you to work your above boiler for the period from **03/11/2020 to 02/05/2021** at a maximum working pressure of **87.0** Kg/Cm²; pending:-

1. Registration Steam test & its approval by the Director of Steam Boilers, M.S. Mumbai.

The boiler must be offered for steam test within the period stipulated in the provisional order i.e. by **02/05/2021** or otherwise the same will have to be offered for re-inspection on payment of fresh inspection fees.

Please note that, this office will not issue any reminder to offer the boiler for steam test before the validity of the provisional order expires. Therefore, in your own interest you should offer the boiler for steam test much in advance of the expiry period of the provisional order. A visit for steam test will also be not fixed within a short time. This office must be informed well in advance when the boiler is ready for steam test so that a visit on the suitable date can be arranged.

If, the steam test is not completed within six months of stipulated period in the provisional order, the boiler will have to be shut down and offered for inspection and hydraulic test on payment of fresh inspection fees.

Yours faithfully,

Narendra Ganpatrao Bhoite
Digitally signed by Narendra Ganpatrao Bhoite
Date: 2020.12.22 17:30:47 +05'30'

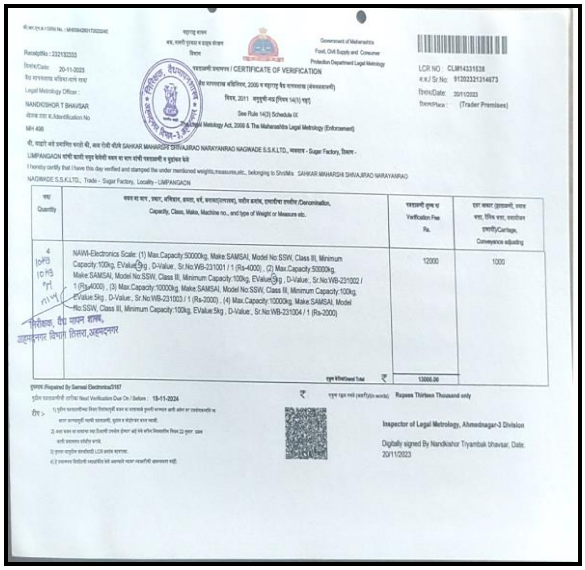
Joint Director of Steam Boilers
Maharashtra State, Ahmednagar

Encl: P.O.No.40
Dt. 22/12/2020

Printed by BoltPDF (c) NCH Software. Free for non-commercial use only.

OFFICE COPY.

Scanned with OKEN Scanner



Government of Maharashtra
Food, Civil Supply and Consumer Protection Department Legal Metrology

CERTIFICATE OF VERIFICATION

See Rule 14(3) Schedule IX

Legal Metrology Act, 2009 & The Maharashtra Legal Metrology (Enforcement)

LCR NO : CLM14331638
R.K./ Sr.No: 91203221314673
Fees/Date: 20/11/2023
Fees/Place : (Trader Premises)

Receipt/No : 232132333
Fees/Date: 20-11-2023
Legal Metrology Officer :
NANDKISHOR T BHAVSAR
MH 498

I Hereby certify that I have this day verified and stamped the under mentioned weights,measures,etc., belonging to Shri/M/s SAHKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGWADE S.S.K.LTD., Trade - Sugar Factory, Locality - LIMPANGAON

Quantity	Description, Capacity, Class, Make, Machine no., and type of Weight or Measure etc.	Verification Fee Rs.	Carriage, Conveyance adjusting
4	NAWA-Electronics Scale: (1) Max.Capacity:50000kg, Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231001 / 1 (Rs-4000) , (2) Max.Capacity:50000kg Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231002 / 1 (Rs-4000) , (3) Max.Capacity:10000kg, Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231003 / 1 (Rs-2000) , (4) Max.Capacity:10000kg, Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231004 / 1 (Rs-2000)	12000	1000

Total Fee/Grand Total ₹ 13000.00

₹ Rupees Thirteen Thousand only

Inspector of Legal Metrology, Ahmednagar-3 Division
Digitally signed By Nandkishor Tryambak bhavsar, Date: 20/11/2023

Government of Maharashtra
Food, Civil Supply and Consumer Protection Department Legal Metrology

CERTIFICATE OF VERIFICATION

See Rule 14(3) Schedule IX

Legal Metrology Act, 2009 & The Maharashtra Legal Metrology (Enforcement)

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Quantity	Description, Capacity, Class, Make, Machine no., and type of Weight or Measure etc.	Verification Fee Rs.	Carriage, Conveyance adjusting
4	NAWA-Electronics Scale: (1) Max.Capacity:50000kg, Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231001 / 1 (Rs-4000) , (2) Max.Capacity:50000kg Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231002 / 1 (Rs-4000) , (3) Max.Capacity:10000kg, Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231003 / 1 (Rs-2000) , (4) Max.Capacity:10000kg, Make:SAMSAL, Model No:SSW, Class III, Minimum Capacity:100kg, EValue:5kg , D-Value:, Sr.No:WB-231004 / 1 (Rs-2000)	12000	1000

Total Fee/Grand Total ₹ 13000.00

₹ Rupees Thirteen Thousand only

Inspector of Legal Metrology, Ahmednagar-3 Division
Digitally signed By Nandkishor Tryambak bhavsar, Date: 20/11/2023

Vetical Combustion System

TESTCAL COMBUSTION SYSTEMS

HEAD OFFICE: - 637/2B OMKAR NAGER BIBAWADHI PUNE 411037
MOBIL Phone: - + 91- 8010395439 / 9881396861/ 9307742092
Office Email ID: - Tcessystems@gmail.com / Testcalpune@gmail.com / Tccssales@gmail.com
Tccsservice1@gmail.com Website- www.Tccs.com

CALIBRATION CERTIFICATE

1) Customer

Sahakar Maharshi shivajirao Narayanrao Nagawade Sahakari
Sakhar Karkhana LTD
AP- Shrigonda Factory - (413726) Tal. Shrigonda

Calibration Certificate No.	SI/SMS/CAL/FT-03
Condition of Item	ok
Challan No.	:
Date of Received	: 07/03/2024
Date of Calibration	: 07/03/2024
Calibration Due On	: 06/03/2025
Date of issue	: #REF!
Location of Calibration	: On Site
Work Instruction No.	: SI/WI/MEC/001

Environmental Condition

Amb. Temp. : 21 to 40 °C
Relative Humidity : <70 %RH

2) Details of UUC

Name : Flow Transmitter (DP Type)
ID/Sr. No : 17W07 C4000003647091
Make : Honeywell
Accuracy : ±0.5 % FS
Location : 16 MW Turbine I/L Steam flow meter

Instrument Range : 0 To 5000 mmH2O
Least Count : 0.1 mmH2O
Model : STD730

3) STANDARD USED FOR CALIBRATION

Name : Digital Pressure Gauge
Certificate No : CS/23/LB/MF/672-02
Certified By : R & D Instrument Services
ID/Sr No : SIPL/DPG/02/01
Due Date : 04/01/2025

Universal Calibrator
2024/0003
Instotech
SIPL/UC/01
02/01/2025

4) CALIBRATION OBSERVATIONS

Input mmH2O	Reading on UUC mmH2O	Desire Reading mA	Actual Reading mA	Error %
0	0.0	4.00	4.000	0.00
1250	1249.2	12.00	11.997	-0.02
2500	2497.5	15.31	15.308	-0.01
3750	3748.3	17.86	17.853	-0.04
5000	4997.8	20.00	19.996	-0.03

THE STANDARD USED TRACEBLE TO NATIONAL/INTERNATIONAL STANDARD THROUGH CHAIN OF CALIBRATION

Note :
1) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
2) This calibration results reported in the certificate are valid at the time of and the stated conditions of measurement.
3)Calibration Points were selected as per customer specification.
4) Expanded Uncertainty in the measurement at 95% C.L. at a coverage factor k=2
5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstact has been obained from the Technical Manager of Stratus Instrumentation.

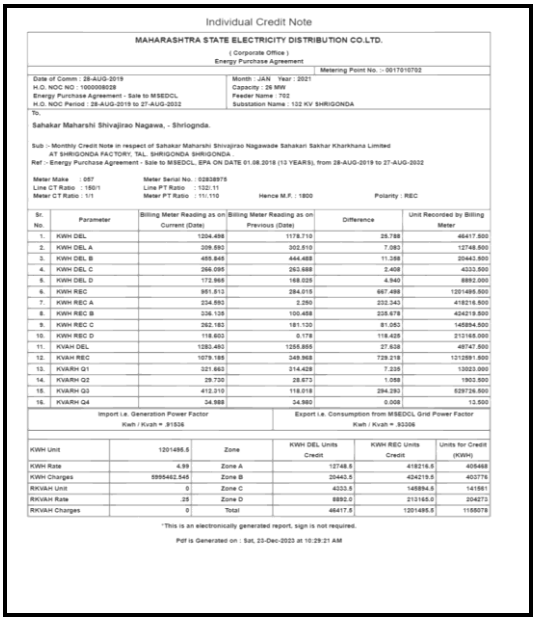
Calibrated By
Calibration Engineer
Vishal Sonawane

Approved By
Technical Manager
Sagar Mohite

** End of the Certificate **

SI/FT-TH-01-02-00

Page No 1 of 1



Individual Credit Note

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO.LTD.
(Corporate Office)
Energy Purchase Agreement

Metering Point No. :- 0017010702

Date of Comm : 28-AUG-2019
H.O. NOC NO : 100000028
Energy Purchase Agreement - Sale to MSEDCL
H.O. NOC Period : 28-AUG-2019 to 27-AUG-2032

Month : JAN Year : 2021
Capacity : 26 MW
Feeder Name : 702
Substation Name : 132 KV SHRIGONDA

To,
Sahakar Maharshi Shivajirao Nagawa, - Shrigonda.

Sub :- Monthly Credit Note in respect of Sahakar Maharshi Shivajirao Nagawade Sahakari Sakhar Kharkhana Limited AT SHRIGONDA FACTORY, TAL. SHRIGONDA SHRIGONDA
Ref :- Energy Purchase Agreement - Sale to MSEDCL, EPA ON DATE 01.08.2018 (10 YEARS), from 28-AUG-2019 to 27-AUG-2032

Meter Make : 087
Line CT Ratio : 160/1
Meter CT Ratio : 1/1
Meter Serial No. : 02838975
Line PT Ratio : 132/.11
Meter PT Ratio : 11/.110
Hence M.F. : 1800
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	1204.498	1178.710	25.788	46417.500
2.	KWH DEL A	309.590	302.510	7.080	12748.500
3.	KWH DEL B	455.846	444.468	11.378	20483.500
4.	KWH DEL C	286.095	283.689	2.408	4333.500
5.	KWH DEL D	172.966	168.026	4.940	8892.000
6.	KWH REC	951.513	284.015	667.498	1201495.500
7.	KWH REC A	234.580	2.250	232.343	418216.500
8.	KWH REC B	336.138	100.458	235.679	424219.500
9.	KWH REC C	282.182	181.130	101.052	145894.500
10.	KWH REC D	118.603	0.178	118.425	213165.000
11.	KVAH DEL	1283.480	1255.855	27.638	49747.500
12.	KVAH REC	1079.186	349.968	729.218	1312891.500
13.	KVARH Q1	321.663	314.428	7.235	13023.000
14.	KVARH Q2	29.730	28.673	1.058	1903.500
15.	KVARH Q3	412.310	118.018	294.292	529726.500
16.	KVARH Q4	34.988	34.980	0.008	13.500

Import i.e. Generation Power Factor	Export i.e. Consumption from MSEDCL Grid Power Factor
Kwh / Kvah = .91536	Kwh / Kvah = .93206

KWH Unit	1201495.5	Zone	KWH DEL Units Credit	KWH REC Units Credit	Units for Credit (KWH)
KWH Rate	4.99	Zone A	12748.5	418216.5	405468
KWH Charges	5995462.545	Zone B	20442.5	424219.5	403776
RKVAH Unit	0	Zone C	4333.5	145894.5	141561
RKVAH Rate	.25	Zone D	8892.0	213165.0	204273
RKVAH Charges	0	Total	46417.5	1201495.5	1155078

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

Pdf is Generated on : Sat, 23-Dec-2023 at 10:29:21 AM

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

सत्यमेव जयते

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:September 11, 2019

To,
M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.
at Gat. No. 522

Subject: Environment Clearance for Proposed 26 MW bagasse based Co-generation unit

Sir,
This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 111th meeting and recommend the project for prior environmental clearance. SEAC-I recommendation submitted by you has been considered by State Level Environment Impact Assessment Authority in its 174th meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category Category B, Sr. No. 1 (d) as per EIA Notification 2006.

Brief Information of the project submitted by unit is as below :-

1.Name of Project	Proposed 26 MW bagasse based co-generation unit by M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd. Plot No 522, Limpangaon Shegar, Tal- Shrigonda, Dist- Ahmednagar, Maharashtra.
2.Type of institution	Private
3.Name of Project Proponent	M/s Sahakar Maharshi Shivajirao Naragdeorao Nagawade SSK Ltd.
4.Name of Consultant	M/s Scan Enviconic Consultants Pvt. Ltd.
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	It is a Proposed New Project of 26 MW bagasse based Co-generation Plant with 180 Operational days.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Gat. No. 522
9.Taluka	Shrigonda
10.Village	Limpangaon
Correspondence Name:	Mr. R.N. Nalk
Room Number:	Gat. No. 522
Floor:	Not Applicable
Building Name:	M/s. Sahakar Maharshi Shivajirao Nagawade SSK Ltd.
Road/Street Name:	Not Applicable
Locality:	Village- Limpangaon, Tal- Shrigonda, District- Ahmednagar
City:	Shrigonda
11.Whether in Corporation / Municipal / other area	Grampanchayat Limpangaon
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable **IOD/IOA/Concession/Plan Approval Number:** Not Applicable **Approved Built-up Area:** 5545
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	331800
16.Deductions	Not applicable

17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** Not applicable **Non FSI area (sq. m.):** Not applicable **Total BUA area (sq. m.):** 5545
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA **Approved Non FSI area (sq. m.):** NA **Date of Approval:** 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Ratio Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	1304350000

Maharashtra Pollution Control Board
61c40f4433dae1438e508362

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: http://mpcb.gov.in
Email: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000113835/CR-2110001256 Date: 23/12/2021

To,
Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.,
Plot No 52/2, Limpangaon Village,
Tal- Shrigonda, Dist. - Ahmednagar.

Your Service is Our Duty

Sub: Renewal of Consent for 3500 TCD with amalgamation of 26 MW Co-generation unit, under RED category.

Ref:
1. Earlier consent granted vide no. Format1.0/CAC-CELL/UAN NO.0000022957-17/R/CAC-1709000637 dated 16.09.2017.
2. Earlier consent granted vide no. Format1.0/CAC/UAN No.MPCB-CONSENT-0000069715/CO-2101001161 dated 28.01.2021
3. Minutes of 7th CAC meeting held on 13.10.2021 & 29.10.2021.

Your application No.MPCB-CONSENT-0000113835 Dated 04.08.2021

For: grant of Consent to Renewal 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 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 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 to Renewal is granted upto: 31.07.2022**
2. **The capital investment of the industry is Rs.89.6793 (Sugar unit) + 130.4350 (Co-generation unit) Total - 220.1143 Crs. Crs. (As per C.A Certificate submitted by industry).**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
1	Sugar	15840	MT/M
2	MOLASSES	5760	MT/M
3	PRESS MUD	5760	MT/M
4	BAGASSE	40320	MT/M
5	Co-generation	26	MW

Maharashtra Pollution Control Board
61c40f4433dae1438e508362

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

Sr No	Description	Permitted in CMD	Standards to	Disposal
1.	Trade effluent	398	As per Schedule -I	48 CMD shall be 100 % recycle & 350 CMD shall be used on land for irrigation.
2.	Domestic effluent	45	As per Schedule - I	On land for gardening

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

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler No.1 &2	1	As per Schedule -II
2	Boiler No. III	1	As per Schedule -II
3	Boiler No V	1	As per Schedule -II
4	D.G. set	1	As per Schedule -II
5	D.G. set	1	As per Schedule -II
6	D.G. set	1	As per Schedule -II

(As per previous consent of existing unit)

6. **Conditions about Non Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Boiler Ash	2749	Ton/Y	Nil	Filter Material for Bio composting

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2008 for treatment and disposal of hazardous waste:**

Sr No	Type of Waste	HW Category.	Quantity & UoM	Treatment	Disposal
1	5.1 Used or spent oil	5.1	5 Kg/Day	Nil	Mixed along with bagasse & Burned

The applicant shall ensure disposal to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.

a. The applicant shall properly collect, transport & regularly dispose of the hazardous waste to CHWTSDF, in compliance of the Hazardous & Other Wastes (Management & Transboundry Movement) Rules, 2016 and keep proper manifest thereof.

8. The 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 authorities.
10. Industry shall connect online CMS data as per CPCB guidelines to CPCB & MPCB Servers.
11. Industry shall stop production activity voluntarily in case of failure of operation and maintance of the ETP system as preventive measures.
12. Industry shall extend all existing BGs towards O&M of pollution control systems and towards compliance of the Consent conditions.

Kindly verify Maharashtra Pollution Control Board's document on Blockchain by scanning the QR code.
https://blockchain.ecmpcb.in/docs/89bdce9098ec9c771cab2ebc2c4c6f86b9b48265eb05101dda4b541c0679db19

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: http://mpcb.gov.in
Email: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000139366/CR/2211000908 Date: 11/11/2022

To,
Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.,
Plot No 52/2, Limpangaon Village,
Tal- Shrigonda, Dist. - Ahmednagar.

Your Service is Our Duty

Sub: Renewal of Consent for 3500 TCD sugar and 26 MW Co-generation unit, under RED category.

Ref:
1. Earlier consent granted vide no. Format1.0/CAC-CELL/UAN No. MPCB-CONSENT-0000113835/CR-2112001256 dated 23.12.2021.
2. Minutes of 6th CAC meeting held on 30.08.2022.

Your application No.MPCB-CONSENT-0000139366 Dated 15.06.2022

For: grant of Consent to Renewal 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 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 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 to Renewal is granted upto: 31.07.2023**
2. **The capital investment of the industry is Rs.Existing - 220.1143 Crs. + Expansion - 6.6896 Crs. Total - 226.8039 Crs. Crs. (As per C.A Certificate submitted by industry).**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
1	Sugar	15840	MT/M
2	Molasses	5760	MT/M
3	Press mud	5760	MT/M
4	Bagasse	40320	MT/M
5	Co-generation	26	MW

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

Sr No	Description	Permitted in CMD	Standards to	Disposal
1.	Trade effluent	398	As per Schedule -I	48 CMD shall be 100 % recycle & 350 CMD shall be used on land for irrigation.
2.	Domestic effluent	45	As per Schedule - I	On land for gardening

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

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler No.1 &2	1	As per Schedule -II
2	Boiler No. III	1	As per Schedule -II
3	Boiler No V	1	As per Schedule -II
4	D.G. set	1	As per Schedule -II
5	D.G. set	1	As per Schedule -II
6	D.G. set	1	As per Schedule -II

(As per previous consent of existing unit)

6. **Conditions about Non Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Boiler Ash	2749	Ton/Y	Nil	Filter Material for Bio composting

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2008 for treatment and disposal of hazardous waste:**

Sr No	Type of Waste	HW Category.	Quantity & UoM	Treatment	Disposal
1	5.1 Used or spent oil	5.1	5 Kg/Day	Nil	Mixed along with bagasse & Burned

The applicant shall ensure disposal to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.

a. The applicant shall properly collect, transport & regularly dispose of the hazardous waste to CHWTSDF, in compliance of the Hazardous & Other Wastes (Management & Transboundry Movement) Rules, 2016 and keep proper manifest thereof.

8. The 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 authorities.
10. Industry shall connect online CMS data as per CPCB guidelines to CPCB & MPCB Servers.
11. Industry shall stop production activity voluntarily in case of failure of operation and maintenance of the ETP system as preventive measures.
12. Industry shall extend all existing BGs towards O&M of pollution control systems and towards compliance of the Consent conditions.
13. This consent is issued as per the 6th Consent Appraisal Committee meeting dated 30.08.2022.
14. The 1st consent to operate for expansion shall be consider only after submission of NOC from CGWA/Irrigation department for use of ground water/surface water.

Sr No | Description | Permitted in CMD | Standards to | Disposal
2. | Domestic effluent | 45 | As per Schedule - I | On land for gardening

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

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler No.1 &2	1	As per Schedule -II
2	Boiler No. III	1	As per Schedule -II
3	Boiler No V	1	As per Schedule -II
4	D.G. set	1	As per Schedule -II
5	D.G. set	1	As per Schedule -II
6	D.G. set	1	As per Schedule -II

(As per previous consent of existing unit)

6. **Conditions about Non Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Boiler Ash	2749	Ton/Y	Nil	Filter Material for Bio composting

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2008 for treatment and disposal of hazardous waste:**

Sr No	Type of Waste	HW Category.	Quantity & UoM	Treatment	Disposal
1	5.1 Used or spent oil	5.1	5 Kg/Day	Nil	Mixed along with bagasse & Burned

The applicant shall ensure disposal to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.

a. The applicant shall properly collect, transport & regularly dispose of the hazardous waste to CHWTSDF, in compliance of the Hazardous & Other Wastes (Management & Transboundry Movement) Rules, 2016 and keep proper manifest thereof.

8. The 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 authorities.
10. Industry shall connect online CMS data as per CPCB guidelines to CPCB & MPCB Servers.
11. Industry shall stop production activity voluntarily in case of failure of operation and maintenance of the ETP system as preventive measures.
12. Industry shall extend all existing BGs towards O&M of pollution control systems and towards compliance of the Consent conditions.
13. This consent is issued as per the 6th Consent Appraisal Committee meeting dated 30.08.2022.
14. The 1st consent to operate for expansion shall be consider only after submission of NOC from CGWA/Irrigation department for use of ground water/surface water.

M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd/CR/UAN No.MPCB-CONSENT-0000139366 (11-11-2022 05:45:32 pm) /QMS.PO6_F02/00 Page 2 of 10

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: http://mpcb.gov.in
Email: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000174430/CR/2310001612 Date: 22/10/2023

To,
Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd.,
Plot No 52/2, Limpangaon Village,
Tal- Shrigonda, Dist. - Ahmednagar. Maharashtra

Your Service is Our Duty

Sub: Renewal of consent to operate

Ref:
1. Earlier consent granted vide no. Format1.0/CAC/UAN No.MPCBCONSENT-0000139366/CR/2211000908 dated 11.11.2022.
2. Minutes of 11th CAC meeting held on 30.08.2023.
3. Application submitted by Industry vide UAN no. MPCB-CONSENT-0000174430 for consent to operate

Your application No.MPCB-CONSENT-0000174430 Dated 30.06.2023

For: Grant of Consent to Renewal 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 6 and Rule 18(7) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 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 to Renewal is granted upto: 31.07.2024**
2. **The capital investment of the industry is Rs.Existing - Rs. 226.8039 Crs. + Expansion - Rs. 79.152 Crs. Total - Rs. 305.9559 Crs. Crs. (As per C.A Certificate submitted by industry).**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
1	Sugar	15840	MT/M
2	Molasses	5760	MT/M
3	Press mud	5760	MT/M
4	Bagasse	40320	MT/M
5	Co-generation	26	MW

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

Sr No	Description	Permitted in CMD	Standards to	Disposal
1.	Trade effluent	1245	As per Schedule -I	885 CMD shall be 100 % recycle & 350 CMD shall be used on land for irrigation.
2.	Domestic effluent	45	As per Schedule - I	On land for gardening

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

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler No.1 (140 TPH) (Working Condition)	1	As per Schedule -II
2	Boiler No. 2 & 3 (Idle condition)	1	As per Schedule -II
3	Boiler No. IV & V (Idle condition)	1	As per Schedule -II
4	D.G. set (750KVA)	1	As per Schedule -II
5	D.G. set (500KVA)	1	As per Schedule -II

(As per previous consent of existing unit)

6. **Conditions about Non Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Canteen waste	0.5	Ton/D	Composting	Use as manure
2	Office waste	0.5	Ton/D	Composting	Use as manure
3	ETP Sludge	5	Ton/M	Composting	Use as manure
4	Boiler Ash	2749	Ton/Y	Nil	Filter Material for Bio composting

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2008 for treatment and disposal of hazardous waste:**

Sr No	Type of Waste	HW Category.	Quantity & UoM	Treatment	Disposal
1	5.1 Used or spent oil	5.1	5 Kg/Day	Sale to MPCB authorized re-processor / recycler / CHWTSDF	Sale to MPCB authorized re-processor / recycler / CHWTSDF

The applicant shall ensure disposal to the Actual user having permissions under Rule 9 of Hazardous and other Waste (M & TM) Rules, 2016.

a. The applicant shall properly collect, transport & regularly dispose of the hazardous waste to CHWTSDF, in compliance of the Hazardous & Other Wastes (Management & Transboundry Movement) Rules, 2016 and keep proper manifest thereof.

8. The 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 authorities.

M/s Sahakar Maharshi Shivajirao Narayanrao Nagawade SSK Ltd./CR/UAN No.MPCB-CONSENT-0000174430/Indus-Id.33676 (22-10-2023 06:25:12 pm) /QMS.PO6_F02/00 Page 2 of 12

Reg. No. ANR/PRG(A) 1, Date 3/8/1965

सहकार महर्षी शिवाजीराव नारायणराव नागवडे
सहकारी साखर कारखाना लि;

मु.पो. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर पिन – ४१३७२६

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE
SAHAKARI SAKHAR KARKHANA LTD.

A/P - Shrigonda Factory - (413726) Tal. Shrigonda, Dist. Ahmednagar (MS)

ANNEXURE - A

Date: 05/12/2022

Format for meter reading of Generating unit

Name of Generator	Sahakar Maharshi Shivajirao Narayanarao Nagawade Sahakari Sakhar Karkhana Ltd.,		
CT Ratio Available - Connected	150/1A-150/1A	Date of Commissioning	28.08.2019
PR Ratio Available - Connected	132KV/110V- 132KV/110v	Date of Synchronization	28.08.2019
Scale Factor	1		
Multiplying Factor (MF)	1800	Installed Generation Capacity	26 MW
Meter make – Sr. No	ELSTER -2838975	Surplus Generation Capacity	16 MW

A) Energy Delivered from MSEDCL to SMSNNSSK Ltd (Import) (Deliver Mode)

Current Reading					Previous Reading				
Date & Time	KWH	KVAH	KVARH Q4	Q1	Date & Time	KWH	KVAH	KVARH Q4	Q1
01.12.2022 & 0.0	721.175	768.335	3.423	235.338	01.11.2022 & 0.0	711.153	757.743	1.28	232.603

B) Energy Received to MSEDCL from SMSNNSSK Ltd (Export) (Receive Mode)

Current Reading					Previous Reading				
Date & Time	KWH	KVAH	KVARH Q3	Q2	Date & Time	KWH	KVAH	KVARH Q3	Q2
01.12.2022 & 0.0	17630.928	19495.243	8244.443	5.103	01.11.2022 & 0.0	13403.315	14780.305	6175.390	4.990

Difference in KWH: 1. **Delivered from MSEDCL** - (721.175 – 711.153) X 1800 = 18040.5KWH

2. **Received to MSEDCL** - (17630.928 – 13403.315) X 1800 = 7609702.5KWH

Actual Unit Exported: 7609702.5**KWH**

Diff in KVARH reading:

(Delivered from MSEDCL Import)

1. KVARH Q4 :(3.423-1.28) X 1800 = 3856.5
2. KVARH Q1: (235.338 – 232.603) X 1800 = 4923.0

(Received to MSEDCL Export)

1. KVARH Q3: (8244.443 – 6175.390) X 1800 =3724294.5
2. KVARH Q2: (5.103 – 4.990) X 1800 = 202.5

Reactive power share Ratio: 48.94 %

Electrical Engineer SMSNNSSK LTD | Co-gen Manager SMSNNSSK LTD | Chief Engineer SMSNNSSK LTD | Managing Director SMSNNSSKLTD

Phone - 02487 - 252220 / 222 / 242 Fax. 02487 - 252339 / 421 E-mail :- shrigondasugar@yahoo.co.in

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Reg. No. ANR/PRG(A) 1, Date 3/8/1965

सहकार महर्षी शिवाजीराव नारायणराव नागवडे
सहकारी साखर कारखाना लि;

मु.पो. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर पिन – ४१३७२६

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE
SAHAKARI SAKHAR KARKHANA LTD.

A/P - Shrigonda Factory - (413726) Tal. Shrigonda, Dist. Ahmednagar (MS)

ANNEXURE – B

INVOICE

Invoice No- 15 For the Month of Nov-2022 Date: 05/12/2022

NAME OF THE GENERATOR – SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR KARKHANA LIMITED

NAME OF BOARD - MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LTD.

C.T. Ratio available/connected - 150/1A Date of Commissioning - 28.08.2019

P.T. Ratio available / connected - 132/V3KV/110/V3V

Scale Factor (if any) - 1 Installed Generation Capacity - 26 M.W.

Multiplication Factor (MF) - 1800 Surplus Generation Capacity - 16 M.W.

Meter Make - Elster

Meter Number - 2838975

KWH		KVARH	
Previous Reading -	13403.315	Previous Reading -	6175.390
Current Reading -	17630.928	Current Reading -	8244.443
(A) Difference -	4227.613	(A) Difference -	2069.053
(B) Difference × M.F -	7609702.5	(B) Difference × M.F -	3724294.5
Ratio – KVARH/KWH =	48.94%		

KWH Exported	Net Billed KWH	Unit Rate	Amount	Shortfall KVARH	Penalty Amount	Amount of Penalty per KVAH
7609702.5	7609702.5	4.99	3,79,72,415.00	0	0	0.25
Add :TCS @ 0.1%		-	Nill			
Less Penalty amount		-	0			
Less –Additional Demand Charges		-	Nill			
Total Dues		Rs.	3,79,72,415 /-			

Three Crore Seventy Nine Lacks Seventy Two Thousand Four Hundred and Fifteen Rupees Only

Total KVARH Delivered is 48.94% of Total KWH

Electrical Engineer Co-gen Manager Chief Engineer Managing Director

Phone - 02487 - 252220 / 222 / 242 Fax. 02487 - 252339 / 421 E-mail :- shrigondasugar@yahoo.co.in

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Reg. No. ANR/PRG(A) 1, Date 3/8/1965

सहकार महर्षी शिवाजीराव नारायणराव नागवडे
सहकारी साखर कारखाना लि;

मु.पो. श्रीगोंदा फॅक्टरी, ता. श्रीगोंदा, जि. अहमदनगर पिन – ४१३७२६

SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE
SAHAKARI SAKHAR KARKHANA LTD.

A/P - Shrigonda Factory - (413726) Tal. Shrigonda, Dist. Ahmednagar (MS)

ANNEXURE – C

DAILY GENERATION REPORT

Date: 05.12.2022

Name of generator: M/s. Sahakar Maharshi Shivajirao Narayanarao Nagawade Sahakari Sakhar Karkhana Ltd

Installed Generation Capacity: 26 MW

Multiplication Factor : 1800

Date	MSEDCL Energy Meter: Export to MSEDCL Reading	Diff	Actual KWH	Import from MSEDCL Reading	Diff	Actual KWH	Total Generated Unit: TG-1 KWH	TG-2 KWH	Total KWH	PF: DL	RC
01.11.2022	13567	164	294633	232	0	0	272300	163800	436100	0.94	1.0
02.11.2022	13672	105	189000	232	0	0	167800	145100	312900	0.90	1.0
03.11.2022	13783	111	199800	232	0	0	182100	146100	328200	0.93	1.0
04.11.2022	13848	65	117000	232	0	0	94800	138900	233700	0.92	1.0
05.11.2022	13988	140	252000	232	0	0	247000	155900	402900	0.92	1.0
06.11.2022	14151	163	293400	232	0	0	286100	161000	447100	0.92	1.0
07.11.2022	14325	174	313200	232	0	0	299100	158500	457600	0.91	1.0
08.11.2022	14503	178	320400	232	0	0	313500	160500	474000	0.91	1.0
09.11.2022	14666	163	293400	232	0	0	282400	165600	448000	0.92	1.0
10.11.2022	14811	145	261000	232	0	0	248200	160900	409100	0.92	1.0
11.11.2022	14941	130	234000	232	0	0	227700	158900	386600	0.93	1.0
12.11.2022	15080	139	250200	232	0	0	243400	159600	403000	0.93	1.0
13.11.2022	15222	142	255600	232	0	0	235500	161800	397300	0.93	1.0
14.11.2022	15381	159	286200	232	0	0	284000	161000	445000	0.93	1.0
15.11.2022	15544	163	293400	232	0	0	285800	162800	448600	0.93	1.0
16.11.2022	15707	163	293400	232	0	0	289900	166300	456200	0.93	1.0
17.11.2022	15860	153	275400	232	0	0	271600	164700	436300	0.93	1.0
18.11.2022	15977	117	210600	234	2	3600	208400	126300	334700	0.93	1.0
19.11.2022	16039	62	111600	235	1	1800	135900	53300	189200	0.93	1.0
20.11.2022	16202	163	293400	235	0	0	301300	157500	458800	0.93	1.0
21.11.2022	16357	155	279000	235	0	0	290500	159900	450400	0.93	1.0
22.11.2022	16517	160	288000	235	0	0	293500	161800	455300	0.93	1.0
23.11.2022	16686	169	304200	235	0	0	309900	163900	473800	0.93	1.0
24.11.2022	16847	161	289800	235	0	0	300400	163600	464000	0.93	1.0
25.11.2022	16988	141	253800	235	0	0	259000	159500	418500	0.93	1.0
26.11.2022	17130	142	255600	235	0	0	255200	152700	407900	0.93	0.88
27.11.2022	17274	144	259200	235	0	0	271900	150600	422500	0.93	0.88
28.11.2022	17409	135	243000	235	0	0	253200	150200	403400	0.93	0.88
29.11.2022	17529	120	216000	235	0	0	225100	150500	375600	0.93	0.87
30.11.2022	17631	102	183470	235	0	0	191700	126300	318000	0.93	0.87

Phone - 02487 - 252220 / 222 / 242 Fax. 02487 - 252339 / 421 E-mail :- shrigondasugar@yahoo.co.in

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SAHAKAR MAHARSHI SHIVAJIRAO NARAYANRAO NAGAWADE SAHAKARI SAKHAR KARKHANA LIMITED.

Annexure B Page - 1

Template 1.1 : Monthly Fuel Usage Statement

For FY : 2021-22

NAME OF THE PROJECT: Sahakar Maharshi Shivajirao Narayanrao Nagawade Sorakari Sakhar Karkhana Limited,

Statement Date :

Location:- Shrigonda Factory Tal. Shrigonda, Dist. Ahmednagar - 413726

SNA/ UTILITY REFERENCE NO.

INSTALLED CAPACITY : 26MW

DATE OF COMMISSIONING : 28/08/2019

SR.NO	MONTH	BIOMASS FUEL -1 CONSUMPTION IN TONES: TYPE OF FUEL	DURING CURRENT MONTH	CUMMILATIVE LAST 12 MONTH	BIOMASS FUEL -2 CONSUMPTION IN TONES: TYPE OF FUEL	DURING CURRENT MONTH	CUMMILATIVE LAST 12 MONTH	BIOMASS FUEL -3 CONSUMPTION IN TONES: TYPE OF FUEL	DURING CURRENT MONTH	CUMMILATIVE LAST 12 MONTH	FOSSILE FUEL (COAL) CONSUMPTION IN TONES: TYPE OF FUEL	DURING CURRENT MONTH	CUMMILATIVE LAST 12 MONTH	%FOSSILE FUEL CONSUMPTION OF TOTAL FUEL CONSUMPTION: DURING CURRENT MONTH	CUMMILATIVE LAST 12 MONTH
														(13)/(14=7+10+13)	(14)/(15=8+11+14)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	13	14
1	Apr-21	Bagasse	-	-	-	-	-	Wood	-	-	-	-	-	-	-
2	May-21	Bagasse	-	-	-	-	-	Wood	-	-	-	-	-	-	-
3	Jun-21	Bagasse	-	-	-	-	-	Wood	-	-	-	-	-	-	-
4	Jul-21	Bagasse	-	-	-	-	-	Wood	-	-	-	-	-	-	-
5	Aug-21	Bagasse	-	-	-	-	-	Wood	-	-	-	-	-	-	-
6	Sep-21	Bagasse	-	-	-	-	-	Wood	-	-	-	-	-	-	-
7	Oct-21	Bagasse	-	-	-	-	-	Wood	-	-	-	-	-	-	-
8	Nov-21	Bagasse	11,903.78	11,903.78	-	-	-	Wood	80.00	80.00	-	-	-	-	-
9	Dec-21	Bagasse	33,423.23	45,327.01	-	-	-	Wood	-	80.00	-	-	-	-	-
10	Jan-22	Bagasse	33,187.53	78,514.54	-	-	-	Wood	-	80.00	-	-	-	-	-
11	Feb-22	Bagasse	25,546.15	1,04,060.69				Wood	40.00	120.00					
12	Mar-22	Bagasse	29,965.13	1,34,025.82				Wood	-	120.00					

Steam consumption for Mar-2022 - 74015.89MT

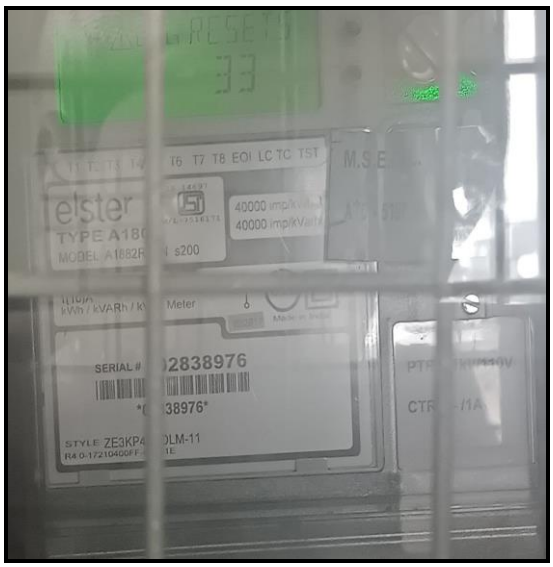
Note 1: For Calculation of bagasse feed to boiler, assumed steam to bagasse ratio is of 2.47 (for Cogen boiler)

G. S. Thorat & Co. Chartered Accountants

G. S. THORAT
FCA Membership No. 032728

07 APR 2022

Cogen Manager Chief Engineer Managing Director


elster
TYPE A18
MODEL A1682
s200
40000 imp/kWh
40000 imp/kVarh
Meter
SERIAL #
02838976
38976*
STYLE ZE3KP4
DLM-11


elster
TYPE A18
MODEL A188
LN s200
3 x 63.5V 4 w
50Hz
1(10)A
kWh / kVARh /
h Meter
0.2S
Made in India
SERIAL
02838975
838975*
STYLE ZE3KP
3DLM-11


सहकार महर्षी शिवाजीराव नारायणराव नाईक सहकारी साखर कारखाना लि. शेणोली
BOILER No. MR-17792
BOILER CAPACITY - 140 TPH
WORKING PRESSURE - 87 Kg/Cm²
WORKING STEAM TEMP-515°SC
HEATING SURFACE-7541 M²
श्री
शुभ
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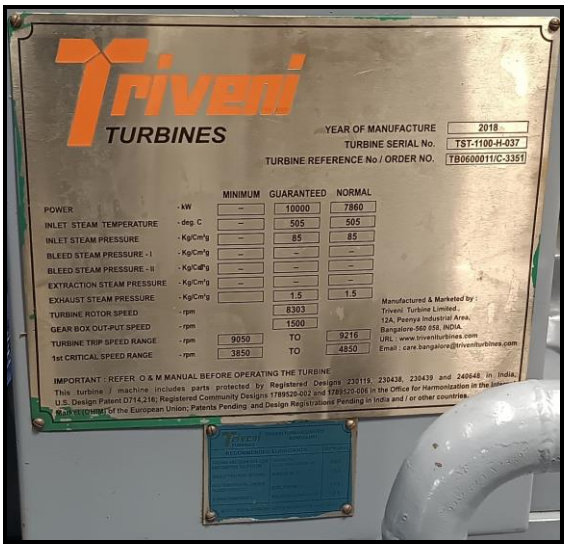
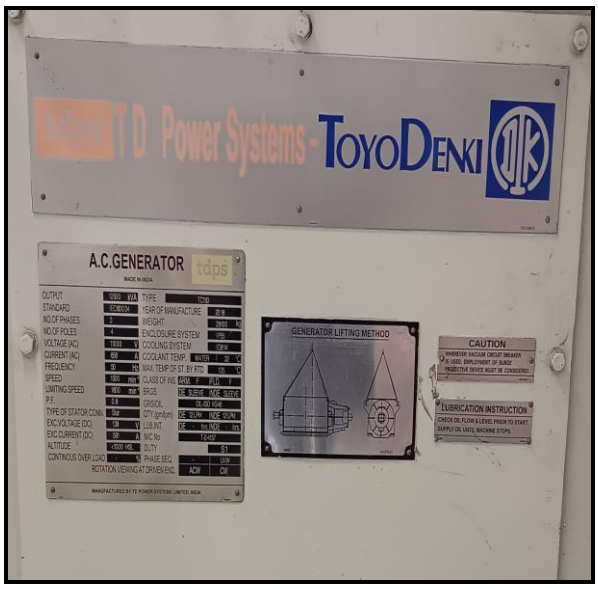

Triveni
TURBINES
YEAR OF MANUFACTURE 2018
TURBINE SERIAL No. TST-1100-H-037
TURBINE REFERENCE No / ORDER NO. TB0600011/C-3351
MINIMUM GUARANTEED NORMAL
POWER - kW 10000 7860
INLET STEAM TEMPERATURE - deg. C 505 505
INLET STEAM PRESSURE - Kg/Cm²g 85 85
BLEED STEAM PRESSURE - I - Kg/Cm²g
BLEED STEAM PRESSURE - II - Kg/Cm²g
EXTRACTION STEAM PRESSURE - Kg/Cm²g
EXHAUST STEAM PRESSURE - Kg/Cm²g 1.5 1.5
TURBINE ROTOR SPEED - rpm 8303
GEAR BOX OUT-PUT SPEED - rpm 1500
TURBINE TRIP SPEED RANGE - rpm 9050 TO 9216
1st CRITICAL SPEED RANGE - rpm 3850 TO 4850
Manufactured & Marketed by :
Triveni Turbine Limited.,
12A, Peenya Industrial Area,
Bangalore-560 058, INDIA.
URL : www.triveniturbines.com
Email : care.bangalore@triveniturbines.com
IMPORTANT : REFER O & M MANUAL BEFORE OPERATING THE TURBINE
This turbine / machine includes parts protected by Registered Designs 230115, 230438, 230439 and 240648 in India,
U.S. Design Patent D714,216; Registered Community Designs 1789520-002 and 1789520-006 in the Office for Harmonization in the
Market (OHIM) of the European Union; Patents Pending and Design Registrations Pending in India and / or other countries.


TD Power Systems - TOYODENKI
A.C.GENERATOR
tdps
GENERATOR LIFTING METHOD
CAUTION
LUBRICATION INSTRUCTION


Triveni
TURBINES
www.triveniturbines.com
TECHNICAL INFORMATION
PRODUCT DETAILS
EQUIPMENT GRMP
SERIAL NO. VVC 2018-134C
POWER SUPPLY INPUT CONTROL CIRCUIT-110V DC AUXILIARY SUPPLY-230V AC, 50Hz
CT RATIO 1250/1A
I/C SWITCH RATING --
SYSTEM FREQUENCY 50Hz
ENCLOSURE PROTECTION IP-52
DRAWING NO VVC 2018-134C
CUSTOMER PO NO 2000020239 DATED : 03.09.2018
PROJECT NAME 16MW, 11kV TG SET
CLIENT M/s. SHRIGONDA SSK LTD.,
CONSULTANT M/s. VSI LTD
MANUFACTURE M/s. VEE VEE CONTROLS PRIVATE LIMITED


METERING CUM SYNCHRONISING PANEL
ABB