

<b>COVER PAGE</b>	
<b>Project Verification Report Form (VR)</b>	
<b>BASIC INFORMATION</b>	
<b>Name of approved UCR Project Verifier / Reference No.</b>	SQAC Certification Pvt. Ltd.
<b>Type of Accreditation</b>	<input type="checkbox"/> CDM or other GHG Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> UCR Approved
<b>Approved UCR Scopes and GHG Sectoral scopes for Project Verification</b>	I-Renewable Energy Projects
<b>Validity of UCR approval of Verifier</b>	October 2021 onwards.
<b>Completion date of this VR</b>	21-06-2024
<b>Title of the project activity</b>	27 MW Bagasse based Co-generation by  M/s Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana–Pimpalgaon Vasa Tal-Shrigonda, Dist-Ahmednagar
<b>Project reference no.</b>	UCR ID: <b>409</b>
<b>Name of Entity requesting verification service</b>	Project Proponent: M/s Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana &  Aggregator: Climekare Sustainability Pvt Ltd.
<b>Contact details of the representative of the Entity, requesting verification service</b>	Consultant: Climekare Sustainability Pvt. Ltd. Email: sustainability@climekare.com Phone: 9811752560
<b>Country where project is located</b>	India

<p><b>Applied methodologies</b> (approved methodologies by UCR Standard used)</p>	<p>Applied Baseline Methodology: ACM0006: Electricity and heat generation from biomass (Ver. 16) &amp; UCR Standard for Emission Factor</p>
<p><b>GHG Sectoral scopes linked to the applied methodologies</b></p>	<p>01 Energy industries (Renewable/Non-Renewable Sources)</p>
<p><b>Project Verification Criteria:</b> Mandatory requirements to be assessed</p>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> UCR Standard</li> <li><input checked="" type="checkbox"/> Applicable Approved Methodology</li> <li><input type="checkbox"/> Applicable Legal requirements /rules of host country</li> <li><input checked="" type="checkbox"/> Eligibility of the Project Type</li> <li><input checked="" type="checkbox"/> Start date of the Project activity</li> <li><input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology</li> <li><input checked="" type="checkbox"/> Credible Baseline</li> <li><input checked="" type="checkbox"/> Do No Harm Test</li> <li><input checked="" type="checkbox"/> Emission Reduction calculations</li> <li><input checked="" type="checkbox"/> Monitoring Report</li> <li><input checked="" type="checkbox"/> No GHG Double Counting</li> <li><input type="checkbox"/> Others (please mention below)</li> </ul>
<p><b>Project Verification Criteria:</b> Optional requirements to be assessed</p>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria</li> <li><input checked="" type="checkbox"/> Social Safeguards Standard do-no-harm criteria</li> </ul>
<p><b>Project Verifier's Confirmation:</b> The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:</p>	<p>The UCR Project Verifier SQAC Certification Pvt. Ltd., certifies the following with respect to the UCR Project Activity 27 MW Bagasse based Co-generation by M/s</p>



Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana –Pimpalgaon Vasa, Tal-Shrigonda,Dist-Ahmednagar.

The Project Owner has correctly described the Project Activity in the Project Concept Note dated 08/01/2024 / Monitoring Report (MR) dated 14-04-2024 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 [1,38,201] tCO<sub>2e</sub>, as indicated in the Monitoring Report (MR) dated 14-04-2024, 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.
<b>Project Verification Report, reference number and date of approval</b>	Verification Report UCR Project ID: <b>409</b> and dated 21-06-2024
<b>Name of the authorised personnel of UCR Project Verifier and his/her signature with date</b>	  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 27 MW Bagasse based Co-generation by M/s Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana – Pimpalgaon Vasa, Tal- Shrigonda, Dist-Ahmednagar. UCR approved project ID:409, to establish number of CoUs generated by project over the crediting period from **05/12/2013 - 31/12/2022** (9 years 26 days)

We believe that the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report (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 27 MW Bagasse based Co-generation by M/s Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana –Pimpalgaon Vasa, Tal- Shrigonda, Dist-Ahmednagar, (UCR ID – 409) for the period **05/01/2013 to 31/12/2022** amounts to **1,38,201 CoUs (1,38,201 tCO<sub>2</sub>eq)**

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 (PCN), Monitoring Report (MR), ER Report, Meter Inspection Report, Certificate for use of a boiler, Commissioning Certificate for 12 MW, Commissioning Certificate for 15 MW, UCR Communication Agreement, Credit Note Invoice, Details of Project Report, 12 MW Detailed Project Report (DPR), Maharashtra Pollution Control Board Environment Clearance for Expansion of Sugar Mill Certificate, Calibration Certificate, Monthly Fuel Procurement statement for 12 & 15 MW, Power Purchase Agreement, Calibration Report, 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: 27/05/2024			
Sr. No.	Activity performed Off-Site	Site location	Date
1.	Interview conducted over Video call/Telephonic discussions	Pimpalgao, Ahmednagar	27/05/2024
2	Supporting documents provided before, during, after the verification.	Pimpalgao, Ahmednagar	27/05/2024

## C.3. Interviews

Sr. No.	Interview			Date	Subject
	Name	Designation	Affiliation		
1	Mr. Kakde	Chief Engineer	M/s Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana	27/05/2024	Calibration, Boiler and Turbine operations, Switch yard operation, Bagasse processing, Compliance, etc.
2	Ms. Sneha Kumari	Chief Sustainability Officer	M/s Climekare Sustainability Pvt Ltd.	27/05/2024	Double Counting, Documentation
3	Mr. Prathamesh Godase	Project Manager	M/s Climekare Sustainability Pvt Ltd.	27/05/2024	Project overview

## C.4. Sampling approach

Not applicable

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

<b>Areas of Project Verification findings</b>	<b>No. of CL</b>	<b>No. of CAR</b>	<b>No. of FAR</b>
<b>Green House Gas (GHG)</b>			
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
<b>Total</b>	Nil	Nil	Nil

## **Section D. Project Verification Findings**

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

<p><b>Means of Project Verification</b></p>	<p><b>Purpose and GHG Emission Reductions:</b> Verify the project's aim to generate electricity and heat using biomass (bagasse) and reduce GHG emissions, ensuring CO<sub>2</sub> savings calculations align with ACM0006.</p> <p><b>Technology and Equipment:</b> Confirm the installation and operational status of specified boilers and generators, ensuring they meet high pressure and temperature requirements.</p> <p><b>Project Implementation and Operation:</b> Ensure continuous operation since the stated start date and verify reported net electricity export (1,71,400 MWh) during the monitoring period.</p> <p><b>Legal and Regulatory Compliance:</b> Verify project registration under the Maharashtra State Co-operative Societies Act and confirm the necessary industrial licenses and name change compliance.</p> <p><b>Methodology Compliance:</b> Ensure adherence to ACM0006 methodology and sectoral scope criteria (Energy industries).</p> <p><b>Documentation and Reporting:</b> Review monitoring reports and supporting documents for accuracy and completeness.</p> <p><b>Emission Factor and Standard Compliance:</b> Ensure emission factors align with UCR standards and the project meets UCR requirements for carbon credits.</p> <p>These steps ensure the project's eligibility and compliance with ACM0006 and UCR standards.</p>
<p><b>Findings</b></p>	<p><b>Purpose and GHG Reductions:</b> Project aims to generate electricity and heat using bagasse, reducing GHG emissions by replacing fossil fuel-based electricity. Verified CO<sub>2</sub> savings of 1,38,201 tons.</p> <p><b>Technology and Equipment:</b> Installed and operational boilers (one 85 TPH and two 40 TPH) with required high pressure and temperature configurations.</p>



	<p><b>Implementation and Operation:</b> Continuous operation since 05-12-2013. Verified net electricity export of 1,71,400 MWh during the monitoring period.</p> <p><b>Legal and Regulatory Compliance:</b> Proper registration under the Maharashtra state co-operative societies act and possession of necessary industrial licenses. Verified name change compliance.</p> <p><b>Methodology Compliance:</b> Adherence to ACM0006 methodology and sectoral scope (01 Energy industries).</p> <p><b>Documentation and Reporting:</b> Accurate and complete monitoring reports and supporting documentation.</p> <p><b>Emission Factor and Standard Compliance:</b> Compliance with UCR standards for emission factors and carbon credit requirements. These findings confirm the project's eligibility under ACM0006 and UCR standards for carbon credits.</p>
<p><b>Conclusion</b></p>	<p><b>Purpose and GHG Reductions:</b> The project successfully generates electricity and heat from bagasse, achieving a verified reduction of 1,38,201 tons of CO<sub>2</sub>, in line with ACM0006 standards.</p> <p><b>Technology and Equipment:</b> The installation and operation of high-pressure and high-temperature boilers (one 85 TPH and two 40 TPH) have been confirmed.</p> <p><b>Implementation and Operation:</b> The co-generation plant has been operational since 05-12-2013, with a verified net electricity export of 1,71,400 MWh during the monitoring period.</p> <p><b>Legal and Regulatory Compliance:</b> The project entity is properly registered and licensed, with</p>

compliance to the name change as required by law.

**Methodology Compliance:** The project adheres to the ACM0006 methodology and falls under the appropriate sectoral scope (01 Energy industries), meeting all specified criteria.

**Documentation and Reporting:** Monitoring reports and supporting documents have been reviewed and found to be accurate and complete.

**Emission Factor and Standard Compliance:** The project complies with UCR standards for emission factors and carbon credit eligibility.

**D.2. General Description of Project Activity**

<p><b>Means of Project Verification</b></p>	<p><b>Project Description Verification:</b> Confirm the Project's purpose to generate electricity and heat using renewable biomass (bagasse) to reduce GHG emissions. Verify the project's location in Maharashtra and its capacity to generate 27 MW of electricity.</p> <p><b>Technology and Equipment Verification:</b> Ensure the installation and operational status of specified boilers (one 85 TPH and two 40 TPH) and generators. Verify that the boilers meet required high pressure (45kg/cm<sup>2</sup>, 87kg/cm<sup>2</sup>) and temperature (490°C, 515°C) configurations.</p> <p><b>Operational Verification:</b> Confirm continuous operation since 05-12-2013, operating approximately 160-180 days per sugar mill season. Verify the net exported electricity of 1,71,400 MWh during the monitoring period.</p> <p><b>Legal and Regulatory Compliance Verification:</b> Verify registration under the Maharashtra state co-operative societies act and possession of necessary industrial licenses. Confirm compliance with the name change under Section 15 of the Maharashtra Co-operative Societies Act, 1960.</p> <p><b>Methodology Compliance Verification:</b> Ensure adherence to ACM0006 methodology for electricity and heat generation from biomass. Confirm the project's alignment with sectoral scope 01 (Energy industries - Renewable/Non-Renewable Sources).</p> <p><b>Documentation and Reporting Verification:</b> Review monitoring report and verify their accuracy and completeness. Ensure the existence and accuracy of supporting documents, including technical specifications and operational records.</p> <p><b>Emission Factor and Standard Compliance Verification:</b> Verify compliance with UCR standards for emission factors and carbon credit eligibility.</p>
<p><b>Findings</b></p>	<p><b>Project Objective:</b> Generates electricity and heat from bagasse to reduce GHG emissions.</p>

	<p><b>Technology:</b> Operational high-pressure boilers and generators meeting specified requirements.</p> <p><b>Operation:</b> Continuous operation since 05-12-2013, with 1,71,400 MWh net electricity export.</p> <p><b>Compliance:</b> Registered under Maharashtra co-operative societies act with necessary licenses and name change compliance.</p> <p><b>Methodology:</b> Adheres to ACM0006 methodology for biomass-based energy generation.</p> <p><b>Documentation:</b> Accurate monitoring reports and supporting documents.</p> <p><b>Emission Factor:</b> Uses UCR-compliant emission factors for carbon credit eligibility.</p>
<p><b>Conclusion</b></p>	<p>The "27 MW Biomass-based Grid-connected Bagasse Power Project of M/s Kukadi Sahakari Sakhar Karkhana Ltd, Maharashtra" meets all requirements of ACM0006 (Version 16). It effectively generates electricity and heat from bagasse, achieving significant greenhouse gas (GHG) emissions reductions. The project operates with high-efficiency boilers and generators, has been consistently operational since 05-12-2013, and complies with all legal, regulatory, and methodology requirements. Documentation and reporting are comprehensive and accurate, confirming eligibility for carbon credit issuance.</p>

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

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

<p><b>Means of Project Verification</b></p>	<p>Reviewing the Project Concept Note (PCN) / Monitoring Report (MR) dated 14-04-2024 to ensure accurate description of technical aspects.</p> <p>Verifying correct application of ACM0006 methodology and sectoral scope.</p> <p>Assessing the development and accuracy of the standardized baseline.</p> <p>Evaluating additionality to ensure project activities are beyond business-as-usual.</p> <p>Checking compliance with methodology requirements, including technical feasibility and environmental integrity.</p> <p>Reviewing monitoring plans and reports for accuracy and completeness.</p> <p>Ensuring stakeholder consultation and compliance with UCR emission factor standards.</p> <p>This ensures the project meets all criteria for carbon credit eligibility</p>
<p><b>Findings</b></p>	<p><b>The Findings are mentioned below:-</b></p> <p><b>Methodology Application:</b> The project has correctly applied ACM0006 methodology for biomass-based electricity and heat generation, ensuring compliance with sectoral scope 01 (Energy industries - Renewable/Non-Renewable Sources).</p> <p><b>Standardized Baseline:</b> The project's standardized baseline accurately reflects the emissions scenario that would have occurred in the absence of the project, typically involving fossil fuel-based electricity generation.</p> <p><b>Emission Reduction Calculation:</b> Verified calculation of emission reductions shows significant CO<sub>2</sub> savings,</p>

	<p>meeting methodology requirements.</p> <p><b>Additionality:</b> The project has demonstrated additionality by showing that its activities go beyond what would have occurred under business-as-usual conditions, supported by robust documentation.</p> <p><b>Monitoring and Reporting:</b> Monitoring plans and reports are comprehensive, accurate, and aligned with the project's methodology and standardized baseline, ensuring reliable data collection and reporting.</p> <p><b>Compliance with UCR Standards:</b> The project uses emission factors that comply with UCR standards, supporting its eligibility for carbon credit issuance.</p>
<p><b>Conclusion</b></p>	<p><b>Methodology Application:</b> The project correctly applies ACM0006 methodology, ensuring compliance with sectoral scope requirements and accurately representing biomass-based electricity and heat generation processes.</p> <p><b>Standardized Baseline:</b> The project has developed and applied a standardized baseline that effectively represents the emissions scenario without the project, typically involving fossil fuel-based electricity generation.</p> <p><b>Emission Reduction Calculation:</b> Verified calculations demonstrate significant CO<sub>2</sub> savings, meeting the methodology's requirements for emission reduction.</p> <p><b>Additionality:</b> The project convincingly demonstrates additionality, showing its activities go beyond business-as-usual and would not occur without carbon finance support.</p> <p><b>Monitoring and Reporting:</b> The project's monitoring plans and reports are comprehensive, accurate, and align with the methodology and standardized baseline, ensuring reliable data collection and reporting.</p> <p><b>Compliance with UCR Standards:</b> The project uses emission factors that comply with UCR standards, supporting its eligibility for carbon credit issuance.</p>

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

<p><b>Means of Project Verification</b></p>	<p><b>Methodology Applicability:</b> Review Project Concept Note (PCN) / Monitoring Report (MR) dated 14-04-2024 for correct application of ACM0006 methodology. Ensure methodology aligns with sectoral scope and project specifics.</p> <p><b>Tool Applicability:</b> Verify tools used for emission reduction calculations are appropriate and compliant with ACM0006 requirements. Assess tools' suitability for project type and size.</p> <p><b>Standardized Baseline Applicability:</b> Evaluate development and application of standardized baseline. Confirm baseline accurately reflects emissions scenario without project.</p> <p><b>Additionality Assessment:</b> Review project documentation to assess additionality. Ensure project activities exceed business-as-usual and legal requirements.</p> <p><b>Stakeholder Consultation and Public Comment:</b> Verify stakeholder consultation process. Assess handling of public comments and responses.</p> <p><b>Documentation Review:</b> Check completeness and accuracy of project documentation. Ensure alignment with methodology, tools, and baseline.</p> <p><b>Compliance with UCR Standards:</b> Confirm use of emission factors compliant with UCR standards. Verify carbon credit calculation meets UCR guidelines</p>
<p><b>Findings</b></p>	<p><b>Methodology Applicability:</b> The project correctly applies ACM0006 methodology for biomass-based electricity and heat generation. Methodology aligns with sectoral scope requirements and project specifics.</p> <p><b>Tool Applicability:</b> Tools used for emission reduction calculations are appropriate and compliant with ACM0006 requirements. Tools are suitable for the project's type and size.</p> <p><b>Standardized Baseline Applicability:</b> The standardized baseline accurately represents the emissions scenario without the project. It is correctly applied to the project</p>

	<p>context, considering technology and operational practices.</p> <p><b>Additionality Assessment:</b> Project activities demonstrate additionality by going beyond business-as-usual practices. Activities are not legally or regulatory mandated.</p> <p><b>Stakeholder Consultation:</b> Stakeholder consultation process is adequately documented and addresses public comments.</p> <p><b>Documentation Review:</b> Project documentation is complete, accurate, and aligns with methodology, tools, and baseline requirements. Technical specifications, operational records, and monitoring plans are consistent with the methodology.</p> <p><b>Compliance with UCR Standards:</b> Emission factors used comply with Universal Carbon Registry (UCR) standards. Carbon credit calculation meets UCR guidelines and requirements.</p>
<b>Conclusion</b>	<p>The Project "27 MW Biomass-based Grid-connected Bagasse Power Project of M/s Kukadi Sahakari Sakhar Karkhana Ltd, Maharashtra" meets all requirements of ACM0006 (Version 16) for carbon credit eligibility. It effectively applies the methodology, tools, and standardized baseline for biomass-based electricity and heat generation. The project demonstrates additionality, complies with UCR standards, and maintains thorough documentation, supporting its eligibility for carbon credit issuance.</p>

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

<b>Means of Project Verification</b>	<p><b>Project Boundary Verification:</b> Clearly define the project boundary in the Project Concept Note (PCN) / Monitoring Report (MR). Ensure the boundary includes all relevant operations and sources related to biomass-based electricity and heat generation. Exclude activities and emissions not directly related to the project.</p> <p><b>Sources Verification:</b> Identify and verify all sources of greenhouse gas (GHG) emissions associated with the project.</p>
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	<p>Categorize and account for sources according to ACM0006 requirements, including biomass combustion, process emissions, and indirect emissions. Verify the completeness and accuracy of emissions data.</p> <p><b>GHGs Verification:</b> Quantify GHG emissions using approved methodologies and emission factors from ACM0006. Include all relevant GHGs (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O) in emissions calculations. Ensure accurate accounting and reporting of GHG emissions in the PCN and monitoring reports.</p> <p><b>Documentation Review:</b> Review project documentation to confirm alignment with ACM0006 requirements. Verify detailed descriptions of project activities, emission sources, and emission reduction calculations in the PCN. Ensure monitoring plans and reports provide accurate data on GHG emissions.</p> <p><b>Compliance with UCR Standards:</b> Use GHG emission factors that comply with Universal Carbon Registry (UCR) standards. Ensure GHG calculations and reporting meet UCR guidelines and requirements</p>
<b>Findings</b>	<p><b>Project Boundary:</b> The Project boundary is clearly defined and includes all relevant operations related to biomass-based electricity and heat generation. The boundary appropriately excludes unrelated activities and emissions.</p> <p><b>Sources:</b> All sources of Greenhouse gas (GHG) emissions associated with the project are identified and categorized. Sources include biomass combustion, process emissions, and any indirect emissions. Emissions data from each source are complete and accurate.</p> <p><b>GHGs:</b> GHG emissions are quantified using methodologies and emission factors specified in ACM0006. Calculations include all relevant GHGs. Emissions are accurately accounted for and reported in the Project Concept Note (PCN) and monitoring reports</p>
<b>Conclusion</b>	<p>The Project "27 MW Biomass-based Grid-connected Bagasse Power Project of M/s Kukadi Sahakari Sakhar Karkhana Ltd, Maharashtra" meets ACM0006 (Version 16) requirements. The project boundary is clearly defined, all GHG emission sources are identified and accurately categorized, and GHG emissions are quantified and reported correctly, supporting the project's</p>

	eligibility for carbon credit issuance.
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#### D.3.4 Baseline scenario

<b>Means of Project Verification</b>	<p><b>Review Historical Data:</b> Assess historical energy generation and consumption data to establish the baseline scenario.</p> <p><b>Compare Emission Factors:</b> Verify the emission factors used for the baseline are consistent with ACM0006 guidelines and reflect typical fossil fuel-based generation.</p> <p><b>Documentation Review:</b> Examine the Project Concept Note (PCN) to ensure the baseline scenario is accurately described and justified.</p> <p><b>Regulatory Compliance:</b> Confirm that the baseline scenario complies with local regulations and industry standards, ensuring it represents a realistic "business-as-usual" scenario.</p>
<b>Findings</b>	<p><b>Historical Data Accuracy:</b> The baseline scenario is accurately established using historical energy generation and consumption data.</p> <p><b>Appropriate Emission Factors:</b> The emission factors used for the baseline are consistent with ACM0006 guidelines and accurately reflect typical fossil fuel-based generation.</p> <p><b>Documentation Compliance:</b> The Project Concept Note (PCN) provides a clear and justified description of the baseline scenario.</p> <p><b>Regulatory Alignment:</b> The baseline scenario complies with local regulations and industry standards, representing a realistic "business-as-usual" scenario.</p>
<b>Conclusion</b>	<p>We conclude that the baseline scenario for the "27 MW Biomass-based Grid-connected Bagasse Power Project" is accurately established using historical data and appropriate emission factors. It is clearly documented and justified in the PCN, and it complies with local regulations and industry standards, representing a realistic "business-as-usual" scenario.</p>

#### D.3.6 Estimation of Emission Reductions or Net Anthropogenic Removal

<b>Means of Project Verification</b>	<p><b>Data Accuracy:</b> Verify the accuracy and completeness of all data used in the emission reduction calculations, including</p>
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<p><b>on</b></p>	<p>energy generation and fuel consumption records.</p> <p><b>Methodology Compliance:</b> Ensure that the methodology and tools used for estimating emission reductions align with ACM0006 requirements.</p> <p><b>Emission Factor Validation:</b> Confirm that the emission factors applied are appropriate and consistent with ACM0006 guidelines.</p> <p><b>Calculation Review:</b> Review the calculations to ensure they are correctly implemented and that any assumptions made are reasonable and well-documented.</p>
<p><b>Findings</b></p>	<p><b>Data Integrity:</b> The data used for emission reduction calculations is accurate, complete, and well-documented.</p> <p><b>Methodological Consistency:</b> The project adheres to ACM0006 guidelines and employs the correct methodologies and tools for estimating emission reductions.</p> <p><b>Emission Factor Appropriateness:</b> The emission factors used are appropriate and consistent with ACM0006 guidelines.</p> <p><b>Calculation Accuracy:</b> The emission reduction calculations are correctly implemented, with reasonable and well-documented assumptions.</p>
<p><b>Conclusion</b></p>	<p>We conclude that the estimation of emission reductions for the "27 MW Biomass-based Grid-connected Bagasse Power Project" is accurate and adheres to ACM0006 guidelines. The data, methodology, and emission factors used are appropriate and well-documented, ensuring reliable calculation of emission reductions.</p>

### D.3.7 Monitoring Report

<b>Means of Project Verification</b>	<p><b>Data Verification:</b> Verify the accuracy and completeness of data reported in the monitoring report, including bagasse consumption, energy generation, and emission factors.</p> <p><b>Compliance Check:</b> Ensure that the monitoring report complies with the requirements specified in ACM0006, including frequency of reporting, parameters monitored, and methodologies used.</p> <p><b>Documentation Review:</b> Review supporting documentation such as operational records, meter readings, and calibration reports to validate the data reported in the monitoring report.</p> <p><b>Validation of Calculations:</b> Validate the calculations used to determine emission reductions, ensuring they align with ACM0006 methodologies and guidelines.</p>
<b>Findings</b>	<p><b>Data Accuracy:</b> The data reported in the monitoring report, including biomass consumption, energy generation, &amp; emission factors, are accurate and complete.</p> <p><b>Compliance with Guidelines:</b> The monitoring report adheres to the requirements specified in ACM0006, including the frequency of reporting and parameters monitored.</p> <p><b>Documentation Completeness:</b> Supporting documentation such as operational records, meter readings, and calibration reports are comprehensive and support the data reported.</p> <p><b>Calculation Accuracy:</b> Emission reductions calculations are validated and align with ACM0006 methodologies, ensuring the reported reductions are reliable and verifiable</p>
<b>Conclusion</b>	<p>The monitoring report for the "27 MW Biomass-based Grid-connected Bagasse Power Project" is accurate, complete, and adheres to ACM0006 guidelines. Data on biomass consumption, energy generation, and emission factors are reliable and well-supported by comprehensive documentation. Emission reductions calculations are validated and align with ACM0006 methodologies, ensuring the reported reductions are credible and eligible for carbon credit issuance.</p>

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

<b>Means of Project Verification</b>	<p><b>Start Date Verification:</b> Verify project start date using official records or project documentation. Ensure alignment with the commencement of biomass electricity and heat generation activities.</p>
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	<p><b>Crediting Period Determination:</b> Determine crediting period based on project start date and ACM0006 guidelines. Ensure compliance with maximum duration requirements.</p> <p><b>Duration Assessment:</b> Assess project duration to meet minimum requirements for crediting. Verify continuous operation since start date and ACM0006 criteria.</p> <p><b>Documentation Review:</b> Review Project Design Document and monitoring reports for accuracy. Confirm documentation supports start date, crediting period, and duration.</p> <p><b>Compliance Check:</b> Ensure start date, crediting period, and duration comply with ACM0006 guidelines for carbon credit eligibility.</p>
<p><b>Findings</b></p>	<p>Upon thorough investigation, the findings are as below: -</p> <p><b>Start Date Verification:</b> The Project's start date is verified using official records and project documentation, aligning with the commencement of biomass electricity and heat generation activities.</p> <p><b>Crediting Period Determination:</b> The Crediting period is determined based on the verified start date and complies with the maximum duration allowed under ACM0006 guidelines.</p> <p><b>Duration Assessment:</b> The Project duration meets the minimum requirements for crediting, demonstrating continuous operation since the start date and adherence to ACM0006 criteria.</p> <p><b>Documentation Review:</b> Project documentation, including the Project Concept Note (PCN) and monitoring report, supports the verified start date, crediting period, and duration, ensuring accuracy and compliance.</p>
<p><b>Conclusion</b></p>	<p>We conclude that the project "27 MW Biomass-based Grid-connected Bagasse Power Project" has a verified start date aligned with the commencement of biomass electricity and heat generation activities. The crediting period is determined in accordance with ACM0006 guidelines, and the project's duration meets minimum requirements for continuous operation. Documentation supports these</p>

	findings, ensuring accuracy and eligibility for carbon credit issuance.
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#### D.5. Positive Environmental impacts

<b>Means of Project Verification</b>	<p><b>Environmental Impact Assessment:</b> Conduct an assessment to verify positive environmental impacts, such as reduced greenhouse gas emissions and lower air pollution from fossil fuel displacement. Ensure the assessment includes other environmental benefits, such as reduced waste and water usage, if applicable.</p> <p><b>Comparison with Baseline:</b> Compare environmental impacts with the baseline scenario to quantify the net positive effects. Verify that the project's operations lead to measurable improvements in environmental quality compared to business-as-usual scenarios.</p> <p><b>Documentation Review:</b> Review Project Concept Note (PCN) and monitoring reports to verify claims of positive environmental impacts. Confirm that reported impacts are supported by reliable data and are consistent with ACM0006 methodologies.</p> <p><b>Stakeholder Consultation:</b> Consider stakeholder consultations or feedback to verify environmental benefits claimed by the project. Ensure that local environmental authorities or communities have validated the positive impacts reported.</p>
<b>Findings</b>	<p><b>Greenhouse Gas Emissions Reduction:</b> The Project has effectively reduced Greenhouse Gas Emissions by displacing fossil fuel-based electricity with biomass-generated electricity. Emission reductions are accurately quantified and align with ACM0006 guidelines.</p> <p><b>Air Quality Improvement:</b> The Project contributes to improved air quality by reducing emissions of pollutants associated with fossil fuel combustion. This improvement is significant and supports local environmental quality.</p>

	<p><b>Other Environmental Benefits:</b> Additional environmental benefits, such as reduced waste or water usage, if applicable, are documented and contribute positively to the project's overall impact.</p>
<b>Conclusion</b>	<p>The "27 MW Biomass-based Grid-connected Bagasse Power Project" has demonstrated substantial positive environmental impacts, including significant reductions in greenhouse gas emissions and improved air quality by displacing fossil fuel-based electricity. These impacts are well-documented and supported by reliable data, confirming compliance with ACM0006 guidelines and eligibility for carbon credit issuance</p>

#### D.8. Project Owner- Identification and communication

<b>Means of Project Verification</b>	<p><b>Identification Verification:</b> Verify the identity of the project owner through official documentation, such as corporate registration certificates or legal documents. Confirm that the project owner is clearly identified in the Project Concept Note (PCN) and other project documentation.</p> <p><b>Communication Verification:</b> Ensure that the project owner's contact information is provided and up-to-date in the PCN and monitoring report. Verify that the project owner is available for communication and is responsive to inquiries related to project operations and carbon credit verification.</p> <p><b>Stakeholder Consultation:</b> Consult with stakeholders, such as local communities and regulatory authorities, to confirm the project owner's identity and establish communication channels. Confirm that stakeholders have been informed about the project's environmental and social impacts, as well as the benefits of the project.</p>
<b>Findings</b>	<p>The findings for the project owner identification and communication are as follows:</p> <p><b>Identification Verification:</b> The project owner's identity has been verified through official documentation, such as corporate registration certificates or legal</p>

	<p>documents. The identity is clearly documented in the Project Concept Note (PCN) and other project-related documents.</p> <p><b>Communication Verification:</b> Contact information for the project owner is provided and up-to-date in the PCN and monitoring report. The project owner is responsive to inquiries related to project operations and carbon credit verification, demonstrating effective communication.</p> <p><b>Stakeholder Consultation:</b> Stakeholders, including local communities and regulatory authorities, have been consulted to verify the project owner's identity and establish communication channels. Stakeholders are informed about the project's environmental and social impacts, as well as the benefits of the project</p>
<b>Conclusion</b>	<p>The Project owner has been accurately identified through official documentation and is clearly documented in the Project Concept Note (PCN). Effective communication channels are established and maintained, ensuring responsiveness to inquiries. Stakeholders have been consulted and informed about the project's impacts and benefits. These practices comply with ACM0006 guidelines, ensuring transparency and supporting the project's eligibility for carbon credit issuance</p>

**Positive Social Impact**

<b>Means of Project Verification</b>	<p><b>Stakeholder Consultations:</b> Conduct consultations with local communities and stakeholders to gather feedback on social impact and address concerns.</p> <p><b>Employment Records and Local Benefits:</b> Verify employment records and assess community benefits such as job creation and local infrastructure improvements.</p> <p><b>Social Impact Assessments:</b> Review social impact assessment reports to ensure the project has delivered on promised social benefits and complied with mitigation measures</p>
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<b>Findings</b>	<p>Upon thorough examination, the findings of verifying positive social impact reveals the following points:-</p> <p><b>Stakeholder Consultations:</b> Feedback from local communities and stakeholders indicates general support and positive reception of the project.</p> <p><b>Employment and Local Benefits:</b> The project has created jobs and improved local infrastructure, benefiting the community economically and socially.</p> <p><b>Social Impact Assessment:</b> Social impact assessments confirm that the project has delivered on its promises, with measurable improvements in local social conditions and compliance with mitigation measures.</p>
<b>Conclusion</b>	<p>The Project has achieved significant positive social impacts, including job creation and community benefits. Stakeholder consultations and social impact assessments confirm these outcomes, demonstrating compliance with ACM0006 guidelines and contributing to local community development.</p>

**Sustainable development aspects (if any)**

<b>Means of Project Verification</b>	<p>The means of Project Verification are as follows:-</p> <p><b>Documentation Review:</b> Review the Project Concept Note (PCN) and sustainability reports to assess the project's contributions to sustainable development goals, such as economic growth, social inclusion, and environmental protection.</p> <p><b>Stakeholder Consultations:</b> Conduct consultations with local stakeholders to verify that the project has positively impacted sustainable development, addressing any concerns and confirming community benefits.</p>
<b>Findings</b>	<p>Upon verification, findings indicate the following:-</p> <p><b>Economic and Social Benefits:</b> The Project has provided significant economic benefits, including job creation and improved local infrastructure. Social benefits, such as enhanced education and healthcare services, have been observed.</p> <p><b>Environmental Protection:</b> The Project contributes to environmental sustainability by reducing reliance on fossil fuels and lowering Greenhouse gas emissions.</p>

	<b>Stakeholder Feedback:</b> Positive feedback from stakeholders confirms the project's contributions to sustainable development.
<b>Conclusion</b>	The Project effectively supports sustainable development by providing economic benefits, social improvements, and environmental protection. It aligns with ACM0006 guidelines, demonstrating significant contributions to local community development and environmental sustainability.

### **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 27 MW Bagasse based Co-generation by M/s Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana –Pimpalgaon Vasa Tal- Shrigonda Dist-Ahmednagar.(UCR ID – 409) for the period 05/12/2013 to 31/12/2022 amounts to **1,38,201,CoUs (1,38,201 tCO<sub>2</sub>eq)**

### **Appendix 1. Abbreviations**

<b>Abbreviations</b>	<b>Full texts</b>
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, 45001,13485,2230 1,22000,27001,140 64-1,2,3	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	Project Concept Note	Climekare Sustainability Pvt Ltd

	Ltd.	(PCN)	
2	Climekare Sustainability Pvt Ltd.	Monitoring Report (MR)	Climekare Sustainability Pvt Ltd
3	Climekare Sustainability Pvt Ltd.	Emission Reduction (ER) Calculation Sheet	Climekare Sustainability Pvt Ltd
4	Secure Meters Ltd	Meter Inspection Report	Climekare Sustainability Pvt Ltd
5	Mahavitaran (Maharashtra State Electricity Distribution Company Ltd.)	Meter Certificate	Climekare Sustainability Pvt Ltd
6	Mahatransco (Maharashtra State Electricity Transmission Company Ltd)	Meter Report	Climekare Sustainability Pvt Ltd
7	Mahadiscom	Meter Test Report	Climekare Sustainability Pvt Ltd
8	Mahavitaran (Maharashtra State Electricity Company Ltd., Nashik	Test Report	Climekare Sustainability Pvt Ltd
9	Mahavitaran	Commissioning Certificates	Climekare Sustainability Pvt Ltd
10	Testcal Combustion System	Calibration Certificates	Climekare Sustainability Pvt Ltd
11	Mahavitaran	Meter Reprogramming Certificate	Climekare Sustainability Pvt Ltd
12	M/s Karmayogi Kundalikrao Ramrao Jagtap Patil Kukadi Sahakari Sakhar Karkhana & Climekare Sustainability Pvt ltd.	UCR Communication Agreement	Climekare Sustainability Pvt Ltd
13	Kukadi Sahakari Sakhar Karkhana Ltd.	Credit Note Invoice for 12MW (2013-2022) & 15MW (2018-2022)	Climekare Sustainability Pvt Ltd
14	Vasantdada Sugar Institute	Revised DPR (Details of Project Report) for 12MW	Climekare Sustainability Pvt Ltd
15	Vasantdada Sugar Institute	Expansion of Co-Generation Project from 12MW to 27MW Capacity.	Climekare Sustainability Pvt Ltd
16	Maharashtra Pollution Control Board	Renewal of consent for 5500 TCD sugar & 27 MW co-generation unit,	Climekare Sustainability Pvt Ltd

		under Red Category.	
17	State Level Environment Impact Assessment Authority (Environmental Department)	Environment Clearance Certificate	Climekare Sustainability Pvt Ltd
18	Star Mech control India Pvt Ltd	Flow meter Installation	Climekare Sustainability Pvt Ltd
19	M/s Kukadi Sahakari Sakhar Karkhana Ltd.	Monthly Fuel Procurement statement for 12 & 15MW	Climekare Sustainability Pvt Ltd
20	Maharashtra State Electricity Distribution Co Ltd & M/s Kukadi Sahakari Sakhar Karkhana Ltd.	Energy Purchase Agreement	Climekare Sustainability Pvt Ltd
21	Maharashtra State Electricity Distribution Co Ltd. & M/s Kukadi Sahakari Sakhar Karkhana Ltd.	Power Purchasing Agreement	Climekare Sustainability Pvt Ltd
22	M/s Kukadi Sahakari Sakhar Karkhana Ltd.	Purchase Order (15MW Bagasse Cogen project)	Climekare Sustainability Pvt Ltd
23	M/s Triveni Turbine Ltd (Triveni Engineering & Industries Ltd)	Purchase Order 15MW Turbine	Climekare Sustainability Pvt Ltd
24	Mahavitaran (Maharashtra State Electricity Distribution Co Ltd.)	Testing Turbine- 15MW generation plant	Climekare Sustainability Pvt Ltd
25	Triveni Turbines	Turbine 15MW	Climekare Sustainability Pvt Ltd
26	Triveni Turbines	Turbine Technical specification (12MW)	Climekare Sustainability Pvt Ltd
27	Triveni Turbines	Turbine Technical specification (15MW)	Climekare Sustainability Pvt Ltd

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

Table 1. CLs from this Project Verification

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

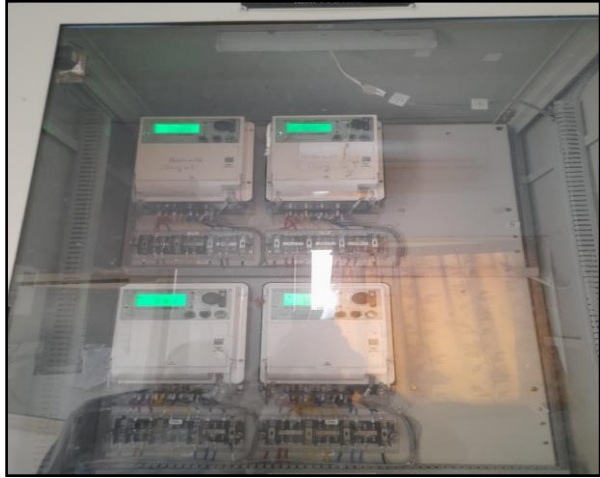
Table 2. CARs from this Project Verification

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

Table 3. FARs from this Project Verification

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





**MAHAVITARAN**  
Maharashtra State Electricity Distribution Co. Ltd.

(A Govt. of Maharashtra undertaking)  
CIN: U40109MH2005SGC133645

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/DYEE AMR/ 10742 Date: 19 JUL 2016

**CERTIFICATE**  
**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that 132 KV S/C line on D/C Tower & 132 KV switch yard erected & commissioned on date 05.12.2013 by M/s. Kukadi Sahakari Sakhar Karkhana Ltd., gat no.95-97, Pimpalgaon Pisa, Tal. Shrigonda, Dist. Ahmednagar has commissioned their 12 MW bagasse based co-generation power project on date 05.12.2013.

Start up power connection for the co-generation project released on 05.12.2013.

Co-generation power project synchronised with the grid on date 06.12.2013 & started exporting of power from 24.12.2013.

This certificate is issued on request letter dated 11.07.16 from M/s. Kukadi Sahakari Sakhar Karkhana Ltd., gat no.95-97, Pimpalgaon Pisa, Tal. Shrigonda, Dist. Ahmednagar.

*(S. A. Koli)*  
Superintending Engineer  
Ahmednagar

**To,**  
M/s. Kukadi Sahakari Sakhar Karkhana Ltd., gat no.95-97, Pimpalgaon Pisa, Tal. Shrigonda, Dist. Ahmednagar.

**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.

**MAHAVITARAN**  
Maharashtra State Electricity Distribution Co. Ltd.

(A Govt. of Maharashtra undertaking)  
CIN: U40109MH2005SGC133645

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/ 20595 Date: 14.12.2018

**CERTIFICATE**  
**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that 132 KV S/C Line on D/C Tower & 132 KV switch yard erected & commissioned for 15 MW bagasse based co-generation power project in r/o ) M/s. Kukadi Sahakari Sakhar Karkhana Limited, Gat No.95 to 97, Pimpalgaon Pisa, Tal. Shrigonda, Dist. Ahmednagar.Cons.No.153209010590 . Start up power connection released on 16.10.2018 .

Co-generation power project synchronised with the grid on date 29.10.2018 & started exporting of power from 29.10.2018.

This certificate is issued on request letter dated 30.10.2018 from M/s. Kukadi Sahakari Sakhar Karkhana Limited, Gat No.95 to 97, Pimpalgaon Pisa, Tal. Shrigonda, Dist. Ahmednagar.Cons.No.153209010590

*(Santosh Sangale)*  
Superintending Engineer  
Ahmednagar

**To,**  
M/s. Kukadi Sahakari Sakhar Karkhana Limited,  
Gat No.95 to 97, Pimpalgaon Pisa,  
Tal. Shrigonda, Dist. Ahmednagar.  
Cons.No.153209010590

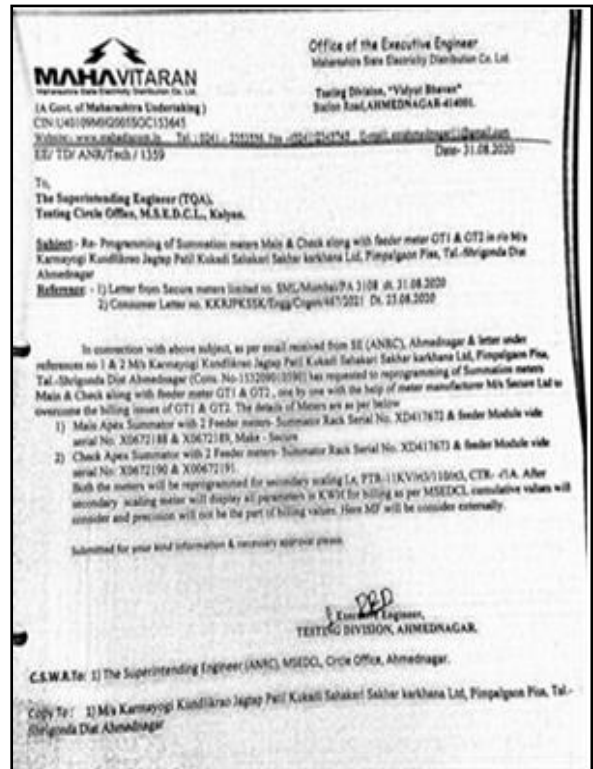
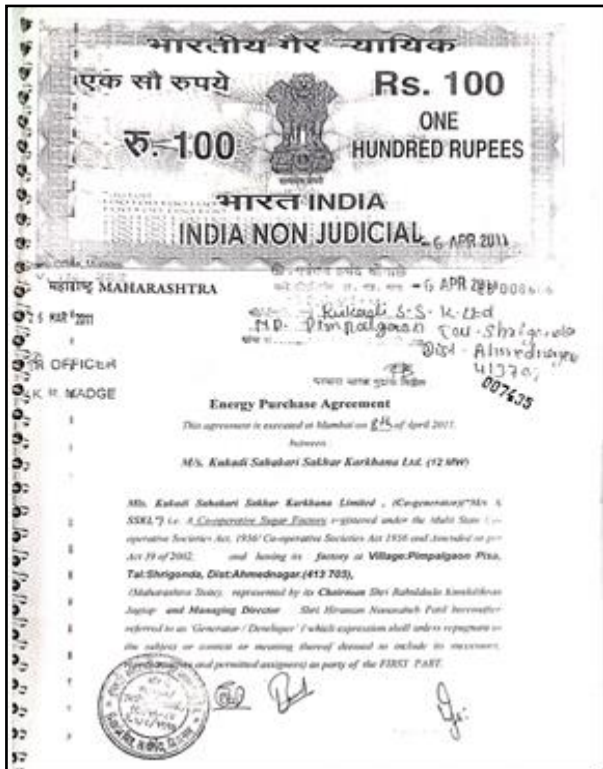
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- 1) The Chief Engineer (Comm), MSEDCL, Prakashgad, Mumbai 400051.
- 2) The Chief Engineer, MSEDCL, Nashik Zone, Nashik.
- 3) The Chief Engineer, MSETCL, EHV O & M zone, Nashik.

**Copy f.w.cs.to:**

- 1) Superintending Engineer, (SLDC), MSEDCL, Airoli, New Mumbai
- 2) Superintending Engineer, MSETCL, EHV O & M circle, Nashik.





### INSPECTION REPORT

**Apex Summator Meter For MSEDCL**  
**A/C Karmayogi Kundalikrao Ramrao Jagtap**  
**Patil Kukadi Sahakari Sakhar Karkhana**  
**Ltd., Ahmednagar**

Product Sr. No.	Description	PT Ratio	CT Ratio
XD417673	19"Apex Summ Metering Rack	-	-
X0672190	Meter Module of 0.2s Accuracy class	-/110V/√3	50/1Amp
X0672191	Meter Module of 0.2s Accuracy class	-/110V/√3	75/1Amp

Through *D.S.B. Mumbra*

(THIS CERTIFICATE MUST BE HUNG UP IN THE BOILER HOUSE)

FORM VI Date: \_\_\_\_\_

(Regulation 38B)

DIRECTORATE OF STEAM BOILER DEPARTMENT  
**CERTIFICATE FOR THE USE OF A BOILER**

Registry No. of Boiler: MR/17244 Type of Boiler \_\_\_\_\_ Water Tube \_\_\_\_\_

Boiler Rating: 4924 Sq. M Place and Year of Manufacture: Bhosri, Pune 2016

Maximum continuous evaporation: 85 TPH

Name of Owner: KARMAYOGI KUNDALIKRAO RAMRAO JAGTAP PATIL KUKADI S.S.K  
PIMPALGAON PISA,  
TAL-SHRIGONDA

Situation of Boiler: DIST AHMEDNAGAR PIN 413703

Repairs: \_\_\_\_\_

Remarks: 2022- First registration steam test of boiler found satisfactory on 25/04/2022.

## MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
 Fax: 24013516  
 Website: <http://mpcb.gov.in>  
 Email: [cac-cell@mpcb.gov.in](mailto:cac-cell@mpcb.gov.in)



Kalpataru Point, 2nd, 3rd and  
 4th floor, Opp. Cine Planet  
 Cinema, Near Suse Circle, Suse  
 (E), Mumbai-400022

No:- Format1.0/CAC/UAN No.MPCB-  
 CONSENT-0000177808/CR/2403002516

Date: 23/03/2024

To,  
 M/s. Karmayogi Kundalikrao Ramrao Jagtap Patil  
 Kukadi Sahakari Sakhar Karkhana Ltd.,  
 Gut no. 95, 97, 98, 102, At Post - Pingalgaon Pisa,  
 Tal. - Shrigonda, Dist. - Ahmednagar (Maharashtra)



Sub: **Renewal of consent for 5500 TCD sugar & 27 MW co-generation unit, under Red Category.**

Ref: **1. Earlier consent granted vide no. Format1.0/CAC/UAN No.MPCB-CONSENT-0000177888/CR-2112001386 dated 24.12.2021.**  
**2. Minutes of CAC meeting held on 06.11.2023.**

Your application No.MPCB-CONSENT-0000177808 Dated 01.08.2023

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.

- The Consent to Renewal is granted upto: **31.07.2024**
- The capital investment of the industry is **Rs.253.81 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	18150	MTM
2	Co-generation Power Plant	27	MW
3	Molasses	6600	MTM
4	Press mud	5700	MTM
5	Bagasse	49500	MTM

- Note: Total Sugar Cane Crushing capacity shall not exceed 5500 TCD.



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment Department,  
 Room No. 217, 2nd floor,  
 Maharashtra, Assembly,  
 Mumbai-400 032,  
 Date: May 14, 2018

To,  
 M/s. Kukadi Sahakari Sakhar Karkhana Ltd  
 At Gut No. 95 & 97

Subject: **Environment Clearance for Expansion of sugar 5500 TCD and 27 MW COG and cogeneration unit from 22 MW to 27 MW.**

This has reference to your submission on the above mentioned subject. The project is considered as per the EIA Notification - 2006, by the State Level Expert Agency (SLEA) vide its meeting held on 14.05.2018. The project is considered as per the State Level Environment Impact Assessment Authority (SLEIA) vide its meeting held on 14.05.2018.

3. It is noted that the project is covered by SEAC-I Maharashtra category Category B. For Super-I (a). For Thermal Project-I (a) as per EIA Notification 2006.

Detail information of the project is furnished by you in table below:

1. Name of Project	Exp. Sugar Refinery (Sugar Refinery)
2. Type of Institution	PSU
3. Name of Project Proponent	M/s. Kukadi Sahakari Sakhar Karkhana Ltd
4. Name of Consultant	Environmental Impact Assessment (EIA)
5. Type of project	Expansion of existing project
6. How project complies to existing project (with reference to the notification on existing project)	Expansion of existing project
7. All requirements/conditions/identical environmental conditions has been obtained for the project	Yes
8. The area of the project	Gut No. 95 & 97
9. Nature	Industrial
10. Village	At Post - Pingalgaon Pisa
11. Area of the project	100 Hectares
12. Approval/Consent/Plan Approval Number	Environment/Plan Approval Number for Industrial Project
13. Date on the notified work is applicable	Approved Built up Area
14. EIA / NEI / ORR from SLEIA/State authority is applicable	No work has been obtained for coal work
15. Coal Plan from Reg. No. 2	No Application
16. Industrial	No Application
17. Air Plan area	No Application

**Testical COMBUSTION SYSTEM**  
 FLOW METER & WATER METER SALES & FURNACE MANTANCE  
 Digital water Meter & Flow Meter & Gas Leakage Tester & Gas Line & Electric Installation  
 NABL & NON NABL Calibration Services  
 Technical Services  
 HEAD OFFICE: - 637/2B OMKAR NAGER BIBWADHI PUNE 411037  
 MOBIL Ph:- + 91- 9881396861 / 9307742092  
 Office Email ID: -Tccssystems@gmail.com / Testicalpune@gmail.com / Tccsservice1@gmail.com  
 Website- www.Tccs.com

### CALIBRATION CERTIFICATE

**1) Customer**  
 K k R J P Kukadi S S K Ltd  
 A/p Pimpalgav Pisa  
 Tal-Shrigonda  
 Dist- Ahmednagar

Calibration Certificate No. : SI/KSSKL/CAL/FT-02  
 Condition of Item : ok  
 Challan No. : --  
 Date of Received : 17/12/2023  
 Date of Calibration : 17/12/2023

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

Calibration Due On : 16/12/2024  
 Date of issue : 19/12/2024  
 Location of Calibration : On Site  
 Work Instruction No. : SI/W/MEC/003

**2) Details of UUC**  
 Name : Flow Transmitter (DP Type) Instrument Range : 0 To 2500 mmH<sub>2</sub>O  
 ID No : NA Least Count : 0.1 mmH<sub>2</sub>O  
 Make : SIEMENS  
 Accuracy : ±1 % FS  
 Location : Water Flow


**3) STANDARD USED FOR CALIBRATION**  
 Name : Digital Pressure Gauge Universal Calibrator  
 Certificate No : 2023/005 2023/009  
 Certified By : Instotech Instotech  
 ID/Sr No : SI-DPG-02-01 SI-UC-001  
 Due Date : 02/01/2024 03/01/2024

**4) CALIBRATION OBSERVATIONS**

Input mmH <sub>2</sub> O	Reading on UUC mmH <sub>2</sub> O	Desire Reading mA	Actual Reading mA	Error %
0	0.0	4.00	4.000	0.00
625	622.2	8.00	7.982	-0.11
1250	1245.4	12.00	11.971	-0.18
1875	1862.9	16.00	15.923	-0.48
2500	2487.3	20.00	19.918	-0.51

*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% CL 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 abstract has been obtained from the Technical Manager of Stratus Instrumentation.

  
 Calibrated By : *S. Pimpale*  
 Calibration Engineer  
 Suraj Pimpale  
 Approved By : *S. Mohite*  
 Technical Manager  
 Sagar Mohite  
 \*\* ENR OF THE CERTIFICATE \*\*

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**Testical COMBUSTION SYSTEM**  
 FLOW METER & WATER METER SALES & FURNACE MANTANCE  
 Digital water Meter & Flow Meter & Gas Leakage Tester & Gas Line & Electric Installation  
 NABL & NON NABL Calibration Services  
 Technical Services  
 HEAD OFFICE: - 637/2B OMKAR NAGER BIBWADHI PUNE 411037  
 MOBIL Ph:- + 91- 9881396861 / 9307742092  
 Office Email ID: -Tccssystems@gmail.com / Testicalpune@gmail.com / Tccsservice1@gmail.com  
 Website- www.Tccs.com

### CALIBRATION CERTIFICATE

**1) Customer**  
 K k R J P Kukadi S S K Ltd  
 A/p Pimpalgav Pisa  
 Tal-Shrigonda  
 Dist- Ahmednagar

Calibration Certificate No. : SI/KSSKL/CAL/FT-01  
 Condition of Item : ok  
 Challan No. : --  
 Date of Received : 17/12/2023  
 Date of Calibration : 17/12/2023

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

Calibration Due On : 16/12/2024  
 Date of issue : 19/12/2024  
 Location of Calibration : On Site  
 Work Instruction No. : SI/W/MEC/003

**2) Details of UUC**  
 Name : Flow Transmitter (DP Type) Instrument Range : 0 To 4000 mmH<sub>2</sub>O  
 ID/Sr. No. : NA Least Count : 0.1 mmH<sub>2</sub>O  
 Make : SIEMENS  
 Accuracy : ±1 % FS  
 Location : Steam Pressure

**3) STANDARD USED FOR CALIBRATION**  
 Name : Digital Pressure Gauge Universal Calibrator  
 Certificate No : 2023/005 2023/009  
 Certified By : Instotech Instotech  
 ID No : SI-DPG-02-01 SI-UC-001  
 Due Date : 02/01/2024 03/01/2024

**4) CALIBRATION OBSERVATIONS**

Input mmH <sub>2</sub> O	Reading on UUC mmH <sub>2</sub> O	Desire Reading mA	Actual Reading mA	Error %
0	0.0	4.00	4.000	0.00
1000	999.4	8.00	7.998	-0.01
2000	1992.6	12.00	11.971	-0.18
3000	2986.2	16.00	15.945	-0.34
4000	3975.6	20.00	19.902	-0.61

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

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 Calibration Engineer  
 Suraj Pimpale  
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