

Maduru Oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydropower Project- SLCCS
VERSION 00

Client	Eagle Power (Pvt) Ltd.
Completion Date of the Verification Report	08/05/2025
Version No.	01
Country	Sri Lanka
Monitoring Period	01/01/2023 to 31/12/2024
Estimated SCER in this monitoring period	9,028 tCO ₂ e
Verified SCER	9,145 tCO ₂ e
Contact details	Mr. Kapila Wijesekara Director General Manager Tel: 077 382 2454 E-mail: kapila@ethimale.lk
Summary of the verification report	
Validation and Verification Division of Sri Lanka Climate Fund has performed the verification of the emission reductions for the “Maduru oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project”, operating under Eagle Power (Pvt) Ltd., for the period from 01/01/2023 to 31/12/2024 It is our verification opinion that the GHG emission reductions reported for the project in the monitoring report of 04th March 2025 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology AMS-I.D(version 18), 2014 and meets all relevant SLCCS requirements. Sri Lanka Climate Fund is verified that the emission reductions from “Maduru oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project” in Sri Lanka during the period from 01/01/2023to 31/12/2024 is 9,804 tonnes of CO₂ equivalent.	
Project Title	Maduru oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project
Report No	SLCCS/VRR/008/2025/02
Work carried out by	Ms.Madhubhashini Gunathilaka Project Executive Project Division Sri Lanka Climate Fund (Pvt) Ltd.
Work Approved by	Ms. Yashoda Lekamge Project and Quality Manager Sri Lanka Climate Fund (Pvt) Ltd.



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ABBREVIATIONS

BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CEB	Ceylon Electricity Board
CL	Clarification Request
CMA	Carbon Management Assessment
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
FAR	Forward Action Request
GHG(s)	Greenhouse Gas(es)
GWP	Global Warming Potential
MR	Monitoring Report
PE	Project Emission
PP(s)	Project Participant(s)
SCER(s)	Sri Lanka Certified Emission Reduction(s)
SLCCS	Sri Lanka Carbon Crediting Scheme
SLCFVAL	Validation Division of Sri Lanka Climate Fund
SLSEA	Sri Lanka Sustainable Energy Authority
VVS	Validation and Verification Standard

1 INTRODUCTION

Eagle Power (Pvt) Ltd, has requested Sri Lanka Climate Fund (SLCF) to carry out the verification and certification of emission reductions reported for the “Maduru oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project -SLCCS” in the period from 01/01/2023 to 31/12/2024. This report contains the findings from the verification and a certification statement for the Sri Lankan Certified Emission Reductions (SCERs).

1.1 Objective

The objective of this verification was to verify emission reductions reported for the Maduru oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project in Sri Lanka for the period from 01/01/2023 to 31/12/2024. The information included in the Monitoring Report and the supporting documents were verified against the requirements as set out by the SLCCS.

1.2 Scope and criteria

The verification scope is given as a thorough independent and objective assessment of the monitoring report including especially:

- To verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.
- To verify that reported GHG emission reduction data is sufficiently supported by evidence.
- To ensure that reported emission reductions are complete and accurate in accordance with SLCCS criteria.

1.3 Description of the Project Activity

Title of the Project Activity	Maduru oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project
Project Participant(s)	Eagle Power (Pvt) Ltd.
Host Party(ies)	Sri Lanka
Monitoring Methodology	AMS I.D. /Version 18/EB 81, 2014
Project's crediting period	01/03/2021 to 28/02/2028
Period verified in this verification	01/01/2023 to 31/12/2024

1.4 Methodology for Determining Emission Reductions

The main purpose of the project activity is to generate electricity using the left bank irrigation canal of a Maduru Oya reservoir owned and operated by Mahaweli Development Authority, Sri Lanka. The project is located in the Left Bank Main Canal Regulator 09, at 24 + 140 taking into consideration of the available drop. The energy generated from the power plant is exported to the national grid operated by Ceylon Electricity Board (CEB), thereby reduces the emission of off-site fossil fuel burning required for the generation of electricity. The estimated annual power generation of Maduru Oya LB Main Canal Drop at 24+140 Hydropower project is 10,336.8 MWh/year. The project was registered as a single renewable energy project complying the methodological requirements of Sectoral scope 1, Type I, AMS-I.D, Grid connected renewable electricity generation, Version 18.0. As per the validated CMA, the expected annual GHG emission reduction resulting in the operation of project is 4514 tCO₂e/year and the expected total GHG emission reductions in first crediting period 31,584 is tCO₂e.

The project's emission reductions are determined as the product of the net electricity generated by the project. According to the validated CMA, project emissions is attributable to the project boundary defined by the project proponent. The emission due to operation of the on-site diesel generator and CO₂ fire extinguisher refilling is identified and accounted as the project emissions. Leakage emissions are not applicable to the project activity as per the validated CMA.

2 METHODOLOGY

Verification was conducted using SLCCS procedures in line with the requirements specified in the CDM Modalities and Procedures, the latest version of the CDM Validation and Verification Standard. The verification consisted of the following phases:

- Appointment of team members and technical reviewers
- Publication of the monitoring report
- Verification planning
- Desk review of the monitoring report and supporting documents
- On-Site assessment
- Background investigation and follow-up interviews with personnel of the project developer and its contractors
- Draft verification reporting
- The resolution of outstanding issues and corrective actions (if any)
- Final verification reporting
- Technical review
- Final approval of the certification

The verification of the emission reductions has assessed all factors and issues that constitute the basis for emission reductions from the project. These include:

- Electricity generation - net export to grid and auxiliary consumptions, on a monthly basis
- Project emissions due to import of electricity from grid during plant shut downs
- Grid emission factor.

Verification Team

On the basis of a competence analysis and individual availabilities, a verification team, consisting of one team leader, one technical expert, two team members, and one internal technical reviewer were appointed. Qualifications of the verification team are summarized in the Appendix.

Name	Company	Role	Task Performed
Ms. Yashoda Lekamge	Sri Lanka Climate Fund (Pvt) Ltd	TL	☒ DR ☒ SV ☒ RI ☐ TR
Ms. Madhubhashini Gunathilaka	Sri Lanka Climate Fund (Pvt) Ltd	TM	☒ DR ☒ SV ☐ RI ☐ TR
Ms. Mananda Wijayanayake	Sri Lanka Climate Fund (Pvt) Ltd	TM	☒ DR ☒ SV ☐ RI ☐ TR
Ms. Wageesha Alankara	Sri Lanka Climate Fund (Pvt) Ltd	ITR	☐ DR ☐ SV ☐ RI ☒ TR

TL -Team Leader TM- Team Member TE- Technical Expert ITR- Internal Technical Reviewer
SV- Site Visit RI- Report Issuance DR- Document Review TR- Technical Review

The verification team fulfils the following requirements:

- qualification for all technical area/s (TAs) related to the activity;
- technical experts who provide specific technical, methodological and sectoral knowledge and/or expertise and qualification for TAs can be involved;
- it includes one Team Leader that takes the responsibility to lead the team;
- it includes a Team Member/Verifier;
- at least one member who performs the on-site visit is qualified for all TAs related to the activity;
- at least one member who performs the on-site visit is qualified as Team Leader, even if he/she does not cover this role for the specific activity;
- the same person can cover more than one role.

2.1 Publication of the monitoring report for public review

According to the SLCCS requirement, the draft MR as received from the project participants, has been made publicly available on the dedicated SLCCS website prior to the verification activity commenced. The public has been invited to comment on the MR during the 30-day public comment period.

No comments were received for the monitoring report.

2.2 Desk review of monitoring report and supporting documents

The monitoring report, the emission reduction calculations, provided in the form of spreadsheets submitted by Eagle Power (Pvt) Ltd. , were assessed as a part of the verification.

In addition to the monitoring documentation provided by the project participants, verification team reviewed:

1. The registered Carbon Management Assessment, the monitoring plan contained in the CMA as well as the validation report.
2. The applied monitoring methodology AMS-I.D. (version 18.0), EB 81, 2014
3. Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion, version 03.3
4. Other operational documents (Calibration procedure, Data monitoring procedure) as evidence during the site visit

2.3 On- site inspections

On 17th February 2025, SLCF carried out site visit at the project site. SLCF verified that the actual implementation and operation of the project is as described in the CMA. The electricity meters used for monitoring electricity (including the calibration records) were checked. Evidence for the reported net generation of electricity was verified.

As part of the on-site inspection, following personnel were interviewed to further verify the documented information.

Name	Designation	Organization/Entity	Method (Face to face/ Telephone)	Main topics covered
Mr. Chanaka Anuruddha	Project Manager	Eagle Power (Pvt) Ltd.	Face to Face	Project start date, commissioning date, crediting period, Procurement procedures, Issues and challenges associated with the operation of power plant, funding options and regular maintenance and operation
Mr. Lasith Wanigathunga	Manager-Maintenance	Eagle Power (Pvt) Ltd.	Face to Face	Mechanical properties of power plant (Turbine, Generator, Governor, bearing cooling system) Emergency shutdown, Overall data management system, QA/QC procedures applicable to data reporting and communication. Calibration of equipment used in monitoring activities.

Mr. Supun Sathsara	Electronic Engineer	Eagle Power (Pvt) Ltd.	Face to Face	Monitoring parameters, Monitoring plan, personnel engaged in monitoring activities. Data gathering, reporting and archiving
Ms. Hashini Sathsarani	Sustainability Analyst	Eagle Power (Pvt) Ltd.	Face to Face Eagle Power (Pvt) Ltd.	Gathered evidence from Head Office

2.4 Independent review

Monitoring report submitted by Eagle Power (Pvt) Ltd. , and additional background documents related to the MR were Verified. Furthermore, the verification team used additional documentation like Regulations, technical specifications referring to the MR to the basic conditions and technical data.

Technical data was reviewed by independent reviewer based on information given in the MR, supporting documents and observations on verification site visit. Before submission of the final verification report a technical review of the whole verification procedure is carried out. The technical reviewer is a competent GHG auditor being appointed for the scope this project falls under.

2.5 Reporting of Findings

A **Clarification Request (CL)** is raised where information is insufficient, unclear or not transparent enough to establish whether the applicable SLCCS requirements have been met.

A **Corrective Action Request (CAR)** is issued where:

- Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
- Mistakes have been made in assumptions, application of the methodology or the project documentation which will have a direct influence the project results,
- The requirements deemed relevant for verification of the project with certain characteristics have not been met or
- There is a risk that the project would not be registered by the SLCCS or that emission reductions would not be able to be verified and certified.

A **Forward Action Request (FAR)** is issued for actions if the monitoring and reporting require attention and/or adjustment for the next verification period.

3. VERIFICATION FINDINGS

This section describes the findings from the verification of the emission reductions reported for the Maduru Oya Left Bank Main Canal at 24+140 Drop 9 MIni Hydropower Project for the period from 01/01/2023 to 31/12/2024.

3.1. Remaining issues (FARs) from previous validation or verification

According to the validation report no issues were required to be closed out during the initial verification. This has been confirmed from the validation report and registered CMA and during the site visit.

3.2. Monitoring report

The monitoring report for the project activity, Maduru Oya Left Bank Main Canal at 24+140 Drop 9 MIni Hydropower Project of 04/03/2025 submitted by Eagle Power (Pvt) Ltd., has been the basis for the verification process. Verification Team confirms that the above submitted MR is based on the currently valid MR template of SLCCS version 03.0 and is completed in accordance with the applicable CDM methodology (AMS-I.D. (version 18.0, EB 81, 2014).

3.3. Project implementation

The projects was implemented and commissioned on following date,

No	Site Location	Project Commissioning date
01	Dimbulagala, Aralaganvila, Polonnaruwa	19-12-2013

First monitoring period was (01/03/2021 to 28/02/2023) and Second monitoring period (01/01/2023 to 31/12/2024) were within the eligible crediting period

Actual implementation of the registered project activity is installation of a 2MW hydro power project at 24+140 Drop 9 of Maduru Oya Left Bank Canal, Dimbulagala Divisional Secretariat, Polonnaruwa district, as per the CMA Version 02 dated 15/05/2023. During the verification assessment, it was confirmed that the power plant is installed in underground concrete enclosure allowing to utilize the maximum head difference of 11.5 m. The water diverting from the main canal is fed into a steel penstock with the diameter of 2.6 m. The penstock drives Dual Operation Kaplan – Vertical Bulb turbine of which shafts connected to the Synchronous/ semi umbrella type generator. The installed capacity of generator is 2 MW which runs at its peak efficiency in the maximum water release from the reservoir.

Power generated by the power house is exported to national transmission lines of 33 kV through a step-up transformer rated 3000 kVA supplied by CEB. The control room attached to the power plant is equipped with modern safety systems and equipment. The staff employed in the power plant is well trained to handle and undertake emergency plant shut downs and overhauls as per the best protocols.

The details of the hydro power generation system with respect to installation and capacity have been verified to be consistent with description indicated in the CMA. The actual implementation of the project during this verification period was verified from name plate capacities of each turbine and generator, monitoring equipment and their accuracy levels.

3.4. Methodology for determining Emission Reductions

3.4.1. Applicability

The project falls under Type I: Renewable Energy Projects and rightly applies the approved methodology AMS-I.D., Grid connected renewable electricity generation, Version 18.0, EB 81, 2014 (Small scale)

All criteria for applicability of selected methodology are fulfilled. The project is a grid connected hydro power project and is confirmed from approval from Ceylon Electricity Board. The project activity is a Greenfield project activity resulting in the generation of renewable energy.

3.4.2. Compliance of the monitoring plan with the monitoring methodology and applicable methodological tools

During this monitoring period, the validated and registered CMA was found in accordance with the applied methodology, AMS-I.D version 18.0. All monitoring parameters, monitoring and calibration procedures follow the methodology requirements.

3.4.3. Compliance of monitoring with monitoring plan

The following parameters have been monitored in accordance with the monitoring plan in the registered CMA and the monitoring report.

Data/ Parameter	Source of Data	Reported value for the project period
Combined Margin CO ₂ Emission Factor	Sri Lanka Sustainable Energy Authority	0.6482 tCO ₂ e/MWh (year 2022)
Net Energy Exported to CEB	CEB invoices	14,110.14 MWh (January 2023 – December 2024)
Fuel consumption of on-site diesel generator	Direct Measurements	200 L (January 2023 – December 2024)
CO ₂ Fire Extinguisher Refilling	Refilling invoices	13 kg (January 2023 – December 2024)

3.4.4. Data and parameters monitored ex-post

Data / Parameter	Net Electricity Supplied to the grid ($EG_{p,j,y}$)
Frequency of measuring/recording	Monthly
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Monitoring equipment	Bidirectional Energy meter Accuracy class of the meter- class 01
Calibration frequency/interval	Annual
Is the calibration interval in line with the monitoring plan of the CMA?	Yes, the calibration frequency indicated in the CMA is "Annual". The Ceylon Electricity Board (CEB) conducts annual meter calibrations, but the calibration report has not yet been provided. In the absence of the official report, the project proponent has attached supporting evidence of the CEB's visit, as recorded in their site visit logbook, for the Sri Lanka Carbon Fund (SLCF) reference.
Company performing the calibration	CEB
Did calibration confirm proper functioning of monitoring equipment? (Yes/No)	Yes
Does the calibration cover the monitoring period?	Yes.
How were the values in the monitoring report verified?	The following documents have been Checked: 1. The monthly statements on net electricity supplied to the grid. 2. Invoices raised by the PP to CEB
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes

Data / Parameter	Diesel burnt in the back-up generator ($FC_{i,j,y}$)
Frequency of measuring/recording	Monthly

Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes. Fuel consumption records are taken on monthly basis and reported in the relevant data recording sheets for verification purpose.
Monitoring equipment	Ruler gauge is used to measure the fuel consumption of the generator.
Calibration frequency/interval	Annual
Is the calibration interval in line with the monitoring plan of the CMA?	Yes, the calibration frequency indicated in the CMA is "Annual"
Company performing the calibration	Calibrated by an outsourced party
Did calibration confirm proper functioning of monitoring equipment? (Yes/No)	Yes
Does the calibration cover the monitoring period?	Yes. Calibration records are available for the current monitoring period.
How were the values in the monitoring report verified?	The following documents have been Checked: 1. The monthly fuel purchased records 2. Log book maintained at facility for recording fuel issuance for generator
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes. Data is monthly recorded by the plant operators and authorized by the project manager

Data / Parameter	CO2 Gas refilling for Fire Extinguisher ($FC_{i,j,y}$)
Frequency of measuring/recording	Yearly
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes. This emission was not accounted for the previous monitoring period
Monitoring equipment	
Calibration frequency/interval	Annual
Is the calibration interval in line with the monitoring plan of the CMA?	Yes, the calibration frequency not indicated in the CMA
Company performing the calibration	
Did calibration confirm proper functioning of monitoring equipment? (Yes/No)	Yes
Does the calibration cover the monitoring	NA

period?	
How were the values in the monitoring report verified?	The following documents have been Checked: Invoice provided by the service provider
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes. Data is yearly recorded by the head office

3.4.5. Assessment of data and calculation of emission reductions

Availability of the data

The data for all the monitoring parameters have been correctly measured, recorded according to the applied monitoring methodology AMS-I.D, version 18 and the registered CMA. All the data are available for this monitoring period.

Cross-check reported data

Baseline Emissions

The baseline emission for the project activity has been calculated as per the CMA version 02 dated 15/08/2023 and AMS-I.D, version 18. The net electricity generation measured during the monitoring period is 14,110.14 MWh and the measurement is in line with the clause 22 of the methodology. The net electricity generation is verified by cross-checking the electricity generation data with consumption figures, including imports and exports, through CEB bills. Additionally, clarification requests are made to address any discrepancies in the imported electricity variations.

As per the clause 18 of the applied methodology AMS-I.D version 18 and calculations as indicated under section 3 of the approved CMA the project participant has calculated the net electricity generation based on the export and import bills issued by CEB, the same has been verified by Verification Team and found to be appropriate.

The net electricity generation to calculate baseline emission found to be 14,110.14 MWh. The baseline emission for the project activity covering the monitoring period worked out based on the approach mentioned above is **9,145 tCO₂e**.

Project Emissions

Project emissions has been calculated using the methodological guidance of CDM tool: Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion and CO₂ fire extinguisher refilling version 03.0. The total project emissions reported for the crediting period are 0 tCO₂e. This is because the calculated emissions from the project activity are less than one. However, adopting a conservative approach, the project proponent has reported the emissions as zero.

Leakage Emissions

As per the paragraph 42 of selected methodology, leakage emission is typically attributable to the operation and processes relating to the biomass project activities. The current project activity does not involve biomass plantation, processing and any treatment after harvesting, hence, no leakage emissions applicable to this project activity. No fossil fuels consumption for the project activity.

Emission Reductions

Therefore, the emission reduction in this monitoring period is:

$$ER_y = BE_y - PE_y - LE_y$$

$$ER_y = 9145 - 0 - 0 = 9145 \text{ tCO}_2\text{e}$$

3.4.6. Accuracy of emission reduction calculations

The emission reductions are calculated by multiplying the net electricity exported to the Sri Lankan national grid with the grid emission factor. The electricity exported from the project activities are read directly from an uploading meter. The meter is owned and maintained by the CEB, which conducts annual calibration as part of its standard procedures. While the project proponent confirms that annual calibrations have been performed, the official calibration certificate was not available for submission. Since the calibration certificate was not available, the proponent submitted their site visit logbook as supporting evidence for verification.

The data presented in the monitoring report was assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. It has been verified during the site visit that the monthly electricity generation during the monitoring period has not exceeded the rated capacity for the Maduru Oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project. The emission reductions from the project for the period from 01/01/2023 to 31/12/2024 as reported in the monitoring report dated 06/03/2025 and actually verified at site equals to 9,145 tonnes of CO₂ equivalent. The total emission reductions are 1.34% more than the estimated emission reduction of 9,024 tCO₂e for this monitoring period as per the CMA version 02.

3.4.7. Management system and quality control

Data was collected based on a data management procedure as described in the submitted CMA. The monitoring and reporting of electricity data is in accordance with well-established operational procedures. The site visit confirmed that the management system for the SLCCS project is in place and can be traced, such as the organizational structure with responsibilities, monitoring procedure and monitoring management, emergency treatment procedure and competence criteria of personnel involved in the SLCCS project. The organizational structure and responsibilities have been detailed in the MR for the project activity and were found to be adequate as confirmed during the site visit.

3.4.8. Resolution of Findings

Type of the Finding	☐ CL	☒ CAR	☐ FAR
Finding No	CAR-1		
Ref. To MR	Section 3.4.5		
Description of Finding	The project emission from A/C refilling & CO2 fire extinguishers identified as the emission source during the site visit.		
Summary of Project owner response	The project owner proved that no refilling of refrigerants and CO2 fire extinguisher during the monitoring period.		
Verification team Assessment	CAR was closed by the verification team because of the emission from A/C refrigerants and CO2 fire extinguishers were not refilled during the second monitoring period. .		
Conclusion	☐ To be checked during the first periodic verification ☐ Additional action should be taken (finding remains open) ☐ Project documentation was corrected correspondingly ☒ Appropriate action was taken. The finding CAR-1 is closed		

Type of the Finding	☐ CL ☒ CAR ☐ FAR
Finding No	CAR-2
Ref. To MR	Section 1.7
Description of Finding	The duration for the project crediting period has not been clearly specified
Summary of Project owner response	The project owner has acknowledged that the duration for the project crediting period was not clearly specified in the original documentation. They have committed to reviewing the details from CMA document and providing a clear timeline for the crediting period.
Verification team Assessment	CAR was closed by the verification team because of the crediting period was clearly mentioned in the MR revision 02
Conclusion	☐ To be checked during the first periodic verification ☐ Additional action should be taken (finding remains open) ☐ Project documentation was corrected correspondingly ☒ Appropriate action was taken. The finding CAR-2 is closed

Type of the Finding	☐ CL ☒ CAR ☐ FAR
Finding No	CAR-3
Ref. To MR	Section 4.2
Description of Finding	The quantity of diesel used for the standby generator was incorrectly reported and mismatched with the verified quantity.
Summary of Project owner response	The project owner responded to the issue of the incorrectly reported diesel quantity for the standby generator by acknowledging the discrepancy. They confirmed that an error in the reporting process led to the mismatch between the reported and verified diesel quantities. The owner assured that corrective actions would be taken to reconcile the data and prevent similar issues in the future.
Verification team Assessment	CAR was closed by the verification team because of the verified value apply for the recalculation of emission reduction.
Conclusion	☐ To be checked during the first periodic verification ☐ Additional action should be taken (finding remains open) ☐ Project documentation was corrected correspondingly ☒ Appropriate action was taken. The finding CAR-2 is closed

Type of the Finding	☐ CL ☒ CAR ☐ FAR
Finding No	CAR - 4
Ref. To MR	Section 4.2

Description of Finding	The quantity of imported energy was not considered for the quantify net electricity exported to the grid.
Summary of Project owner response	The project owner acknowledged that the quantity of imported energy was not initially factored into the calculation for the net electricity exported to the grid. The project owner assured that corrective actions are being taken to include all relevant data, including imported energy, for a comprehensive analysis of the net electricity exported. This will help provide a clearer understanding of the overall energy performance and ensure compliance with regulatory requirements.
Verification team Assessment	CAR - 4 was closed by the verification team because of the verified value apply for the recalculation of emission reduction.
Conclusion	☐ To be checked during the first periodic verification ☐ Additional action should be taken (finding remains open) ☐ Project documentation was corrected correspondingly ☒ Appropriate action was taken. The finding CAR- 4 is closed

Type of the Finding	☒ CL ☐ CAR ☐ FAR
Finding No	CL - 1
Ref. To MR	Section 4.2
Description of Finding	In both March and September of 2023, the export electricity generation was reported as zero. Similarly, in the same months of 2024, the production remained significantly low in comparison.
Summary of Project owner response	The project owner clarified that the zero-production observed during both March and September 2023 was directly linked to the harvesting periods of the Yala and Maha seasons. During these times, agricultural activities such as harvesting take precedence, and as a result, irrigation water is not required for field irrigation. Consequently, there is no demand for water release from the system, leading to a suspension of electricity generation. The seasonal pattern of water usage and crop cycles significantly impacted the production levels during these months.
Verification team Assessment	CL - 1 was closed by the verification team because of the describe the situation during the mentioned periods.
Conclusion	☐ To be checked during the first periodic verification ☐ Additional action should be taken (finding remains open) ☐ Project documentation was corrected correspondingly ☒ Appropriate action was taken. The finding CL - 1 is closed

Type of the Finding	☒ CL ☐ CAR ☐ FAR
Finding No	CL-2
Ref. To MR	Section 3.4.5

Description of Finding	Fluctuations in imported electricity data were noted during the monitoring period.
Summary of Project owner response	The Project Owner acknowledges the observed fluctuations in imported electricity data during the monitoring period. They attribute these variations due to periodic maintenance and repair activities. Specifically, during certain months, electricity consumption increases due to generator repairs and other electrical systems functions, leading to higher electricity bills.
Verification team Assessment	CL was closed by the verification team because the team has reviewed the Project Owner's explanation regarding fluctuations in imported electricity data.
Conclusion	☐ To be checked during the first periodic verification ☐ Additional action should be taken (finding remains open) ☐ Project documentation was corrected correspondingly ☒ Appropriate action was taken. The finding CL-2 is closed

4. VERIFICATION OPINION

Sri Lanka Climate Fund (SLCF) has performed the verification of the emission reductions that have been reported for the Maduru Oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydropower Project for the period 01/01/2023 to 31/12/2024.

The verification consisted of the following three phases:

- i. desk review of the MR and additional background documents;
- ii. follow-up interviews with project stakeholders;
- iii. resolution of outstanding issues and the issuance of the final verification report and opinion.

It is the responsibility of Verification Team to express an independent verification opinion about the project's conformity with the requirements of SLCCS modalities and procedures and on the reported greenhouse gas emission reductions from the project. SLCF conducted the verification on the basis of the monitoring methodology AMS-I.D. (version 18), the monitoring plan contained in the registered CMA of Maduru Oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydropower Project and the monitoring report dated 06/03/2025. The verification included,

- i) checking whether the provisions of the monitoring methodology and the monitoring plan were consistently and appropriately applied and
- ii) The collection of evidence supporting the reported data.

Based on the interviews, observations, and documental examinations carried out of the site by the verification team,

- the project has been implemented and operated as per the registered CMA;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable SLCCS requirements;

- the monitoring is in place as per the applied baseline and monitoring methodology;
- the monitoring complies with the monitoring plan in the registered CMA;
- the monitoring plan in the registered CMA is as per the applied baseline and monitoring methodology.

In the course of the verification 04 Corrective Action Requests (CARs) and 02 Clarifications were raised and successfully closed and no FARs were raised.

The review of the CMA and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and review of comments by parties and stakeholders have provided SLCF Verification Division with sufficient evidence to verify the fulfillment of the stated criteria.

In detail the conclusions can be summarized as follows:

- The project is in line with all legal requirements (Sri Lanka) and all relevant SLCCS requirements for carbon credits. Further the project activity is in compliance with the requirements set up by the applied approved CDM methodology AMS-I.D ver.18
- The monitoring plan is transparent and adequate.
- The calculation of the project emission reductions is carried out in a transparent and conservative manner, so that the calculated emission reductions with a reasonable assurance to be achieved within the crediting period.
- The project full fill all the requirements

SLCF concludes with a reasonable assurance that the GHG emissions reductions of the “Maduru Oya Left Bank Main Canal at 24+140 Drop 9 Mini Hydro Power Project” for the period 01/01/2023 to 31/12/2024 are fairly stated in the monitoring report dated 06/03/2025.



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Mrs. Wageesha Alankara
Internal Technical Reviewer
26/05/2025



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Ms. Yashoda Lekamge
Team Leader
26/05/2025

5. REFERENCES

Documents provided by the Project Participants that relate directly to the GHG components of the project. These have been used as direct sources of evidence for the periodic verification conclusions, and are usually further checked through interviews with key personnel.

1. Records of Invoices raised from the project participant for the sale of power
2. Records of Monthly generation details in the plant and maintenance records

Background documents related to the design and/or methodologies employed in the design or other reference documents.

1. AMS-I.D – “Grid connected renewable energy generation”, version 18.0

6. APPENDIX

Verification Team

Ms.Yashoda Lekamge	SLCF	Team Leader Ms. Yashodha Lekamge has a BSc Honors in Eco-Business Management and Successfully Completed the course on ISO 14001:2015 Environment Management System, University of Peradeniya, completed corporate GHG emissions accounting, verification and reporting conducted by Accelerating Industries' Climate Response Sri Lanka, completed the Training Programme on Carbon Footprint Assessment for Sustainable Process Industry conducted by University of Moratuwa, engaged over 45 greenhouse gas verifications conducted by SLCF with more than 2 years of experience.
Ms. Madhubhashini Gunathilaka	SLCF	Team Member Ms. Madhubhashini Gunathilaka has a degree in Bachelor of Science in Plantation Management and completed a Higher National Diploma in Agriculture (HNDDT). She has worked as an Agricultural Instructor - Department of Agriculture. She is a Registered Assessor - Tertiary and Vocational Education Commission. She has conducted over ten verifications under the Greenhouse Gas Emissions Reporting with one year of experience and completed NDA Direct Access Accreditation Support Helpdesk Training conducted by the 2nd NDA Readiness Project in collaboration with Ministry of Environment.
Ms. Mananda Wijayanayake	SLCF	Team Member Ms. Mananda Wijayanayake has a B.Sc. (Hons) degree in Agriculture specializing in Plantation Product Development Technology. She has worked as an environment and climate change consultant at Smallholder Agribusiness Partnership Program. She has conducted over ten verification under the Greenhouse Gas Emissions Reporting with one year of experience and completed NDA Direct Access Accreditation Support Helpdesk Training conducted by the 2nd NDA Readiness Project in collaboration with Ministry of Environment.

Ms. Wageesha Alankara	SLCF	Internal Technical Reviewer Ms. Wageesha Alankara has a B.Sc. (Hons) degree in Agriculture specializing in Postharvest Horticulture and completed the Training Programme on Carbon Footprint & Water Footprint Assessment for Sustainable Process Industry conducted by University of Moratuwa. She has engaged over 45 verification assessments of annual GHG inventories as a verifier for different industries and over 7 validation and verification of Sri Lanka Carbon Crediting Scheme Projects with more than 2 years of experience.
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