Sri Lanka® Carbon Crediting Scheme

Verification Report

HPL Rooftop Solar PV Bundle Project

Sri Lanka Climate Fund
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HPL ROOFTOP SOLAR PV BUNDLE PROJECT-SLCCS
Version 1.0

Client	Horana Plantations PLC
Completion Date of the Verification Report	11/05/2023
Version No.	02
Country	Sri Lanka
Monitoring Period	05/01/2022 to 31/03/2023
Estimated SCER in this monitoring period	821 tCO_2e
Verified SCER	581 tCO_{2e}
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Summary of the verification report

Validation & Verification Division of Sri Lanka Climate Fund has performed the verification of the emission reductions for the "HPL Solar PV Bundle Project", operating under Horana Plantations PLC, for the period of 05/01/2022 to 31/03/2023

It is our validation opinion that the GHG emission reductions reported for the project in the monitoring report (Version 02) of 5th May 2023 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology AMS-I.D (version 18) and meets all relevant SLCCS requirements.

Sri Lanka Climate Fund is able to verify that the emission reductions from " HPL Rooftop Solar PV Bundle Project " in Sri Lanka during the period 05 January 2022 to 31 March 2023 is 581 tons of CO_2 equivalent.

Project Title	HPL Solar PV Bundle Project		
Report No	SLCCS/REG/0007/VR/CI/01		
Work carried out by	Validation & Verification Division Sri Lanka Climate Fund		
Work Approved by	Mr. Chamara Ariyathilaka		
Version No.	02	**Date of Version**	11/05/2023
No of Pages	16		

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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_2e	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

Horana Plantations PLC, has requested Sri Lanka Climate Fund (SLCF) to carry out the verification and certification of emission reductions reported for the "HPL Rooftop Solar PV Bundle Project" in the period 05 January 2022 to 31 March 2023. This report contains the findings from the verification and a certification statement for the Sri Lankan Certified Emission Reductions (SCERs).

1.1 Objective

The purpose of this verification was to have an independent review of the monitoring report. The objective of this verification was to verify emission reductions reported for the HPL Rooftop Solar PV Bundle Project in Sri Lanka for the period of 05/01/2022 to 31/03/2023. The information included in the Monitoring Report and the supporting documents were reviewed 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 data is sufficiently supported by evidence.

The verification shall 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	HPL Rooftop Solar PV Bundle Project
Project Participant(s)	Horana Plantations PLC
Host Party(ies)	Sri Lanka
Monitoring Methodology	AMS I.D. /Version 18/EB 81
Project's crediting period	05/01/2022 to 04/01/2029
Period verified in this verification	05/01/2022 to 31/03/2023

1.4 Methodology for Determining Emission Reductions

The HPL Rooftop Solar PV Bundle Project is located at Upcot and Lindula region, Central Nuwara-Eliya District, Central Province, in different estates of Horana Plantations PLC. The project activity

which involves installation of 967.19 kW_p solar photovoltaic (SPV) and generated electricity is supplied to the national electricity grid of Sri Lanka. As per the validated CMA, the total estimated energy generation of the project is 1218.35 MWh.

The project's emission reductions are determined as the product of the net electricity generated by the project. According to the validated CMA, there are no project emissions and leakage emissions to deduct from the emission reductions of the first monitoring period.

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.

2.1 Verification Team

On the basis of a competence analysis and individual availabilities, a verification team, consisting of one team leader, one financial expert, one team member, as well as one technical reviewer was appointed. The list of involved personnel, the tasks assigned and the qualification status are summarized in the table in **appendix A**

Name	Company	Role	Task Performed
Mr. Gayan Madusanka	Sri Lanka Climate Fund	TL	☒DR ☒SV ☒RI ⊡TR
Ms. Wageesha Alankara	Sri Lanka Climate Fund	TM	☒DR ☒SV ⊡RI ⊡TR
Ms. Harshani Abeyrathna	Sri Lanka Climate Fund	IR	☒DR ☒SV ⊡RI ☒TR

TL -Team Leader TM- Team Member FE- Financial Expert IR- Technical Reviewer
SV- Site Visit RI- Report Issuance DR- Document Review TR- Technical Review

2.2 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. Stakeholders have been invited to comment on the MR within the 30 days public commenting period.

No comments were received for the monitoring report.

2.3 Desk review of monitoring report and supporting documents

The monitoring reports (Version 01) the emission reduction calculations, provided in the form of spreadsheets submitted by Horana Plantations PLC, 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)
3. Other operational documents as evidence during the site visit

2.4 On- site inspections

On 26 April 2023, SLCF carried out site visit at the solar energy generation facilities. 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 at all facilities which are exporting energy to the national grid. Evidence for the reported net generation of electricity was verified.

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

Name	Designation	Organization/Entity	Method (Face to face/ Telephone)	Main topics covered
Mr. Tharindu Weerakoon	Manager, Sustainability & Certifications	Head Office, Horana Plantation PLC	Face to Face	Data transmission and recording mechanism, personnel engaging in the data reporting and internal verification, Implementation status of the project activities
Mr. Chamilka Perera	Factory Manager	Gouravilla	Face to Face	Calibration of energy meters, technical failure encountered in the solar energy generation systems, data recording and reporting to the central archival system
Ms. Ashvinie Marapana	Executive Sustainability	Head Office-Horana	Face to Face	Working mechanism of real time monitoring system provided by the service

	& Corporate Reporting	Plantation PLC		provider. Potential error reporting and rectification

2.5 Independent review

Monitoring report submitted by Horana Plantations PLC and additional background documents related to the CMA and MR was reviewed. Furthermore, the verification team used additional documentation by third parties like host party legislation, technical reports referring to the MR or 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.

The verification team and the independent reviewer have the collective competence necessary to perform the verification. The verification team fulfils the following requirements:

- qualification for all technical area/s (TAs) related to the activity;
- technical experts who provides 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 roles.

2.6 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 HPL Rooftop Solar PV Bundle Project for the period 05/01/2022 to 31/03/2023.

3.1 Remaining issues (FARs) from previous validation or verification

According to the validation report (version 03) 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, HPL Rooftop Solar PV Bundle Project, Version 01 of 03/04/2023 submitted by Horana Plantations PLC, has been the basis for the verification process. Verification Team confirms that the above MR is based on the currently valid MR template of SLCCS version 03.0 and is completed in accordance with the applicable CDM methodology.

3.3 Project implementation

The project was implemented and commissioned on 05/01/2022, prior to SLCCS registration on 11/07/2022. First monitoring period (05/01/2022 to 31/03/2023) was within the eligible crediting period.

Actual implementation of the registered project activity is installation of a 967.19 kW solar power project at different estates of Horana Plantations PLC at Upcot and Lindula Region in Nuwara-Eliya District in Central Province, Sri Lanka as per the CMA Version 03 dated 21/03/2022. During the verification assessment, it was confirmed that all project activities declared in the bundle have not been implemented by the project proponent within stated period. Project activities to be commissioned at Bambrakelly Estate and Eildon Hall Estate within the year 2022 remained at the pending stage at the point of verification. As confirmed by the project proponent, the implementation of these project activities delayed due to unexpected delay in obtaining CEB approval.

The details of the solar generation systems 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 Post registration changes

During this verification period no post-registration change is observed. The monitoring and verification of the project activity is as per the CMA revision 03 of 11.07.2022

3.5 Methodology for determining Emission Reductions

3.5.1 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 and it valid from 28th November 2014.

All criteria for applicability of selected methodology are fulfilled. The project is a grid connected renewable solar power project and is confirmed from approval from Ceylon Electricity Board. The project activity is a Greenfield project activity and there will not be any significant emissions related to project as no fossil fuels are used and leakage.as no equipment is transferred.

3.5.2 Compliance of the monitoring plan with the monitoring methodology and applicable methodological tools

During this monitoring period, the validated and registered CMA was found to be in accordance with the applied methodology, AMS-I.D version 18.0. All monitoring parameters, monitoring and calibration procedures follow the methodology requirements. No recommendation was made during this verification.

3.5.3 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	0.7404 tCO_{2e}/MWh (year 2019)
Energy Export to CEB	CEB invoices	785.321 MWh (January 2022 - March 2023)

3.5.4 Data and parameters monitored ex-post

Data / Parameter	Net Electricity Supplied to the grid
Frequency of measuring/recording	Monthly
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Monitoring equipment	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”
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

3.5.5 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 03 dated 11/07/2022 and AMS-I.D, version 18. As stated in the section 3.5.3 above, the net electricity generation measured during the monitoring period is 785.321 MWh and the measurement is in line with the clause 22 of the methodology. The electricity generation is cross checked from the electricity generation and consumption log book records and there were no any mismatch found to be reported

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 electricity generation based on the export bill issued by CEB, the same has been verified by Validation Team and found to be appropriate.

The net electricity generation to calculate baseline emission found to be 785.321 MWh. The baseline emission for the project activity covering the monitoring period worked out based on the approach mentioned above is 581 tCO_2e.

Project Emissions

Project emission may include the emissions associated with the project installation, operation and maintenance. As per the methodology applied, these emissions are not significant and attributable to the project activity, hence project emissions are reported as zero.

Leakage Emissions

There are no leakages associated with movement of old equipment that need to be assessed as per the methodology AMS-I.D, Version18. Thus, there is no leakage emission form the project activity for this monitoring period.

Emission Reductions

Therefore, the emission reductions in this monitoring period are:

ERy = BEy - PEy - LEy

ERy = 581– 0 – 0 = 581 tCO_2e

3.5.6 Accuracy of emission reduction calculations

The emission reductions are calculated as the product of the net electricity exported to the grid and the grid emission factor of the national grid of Sri Lanka. The electricity exported from the project activities are read directly from an uploading meter. The meter is owned by the CEB and the maintenance and calibration is done by CEB on an annual basis. The import from the grid is sourced from the invoices provided by the CEB to the project proponent. The calibration certificate covering the entire period has been evidenced.

The data presented in the monitoring report revision 01 and 02 were 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 HPL Rooftop Solar PV Bundle Project. The emission reductions from the project for the period from 05/01/2022 to 31/03/2023 as reported in the revised monitoring report of Version 02 dated 05th May 2022 and actually verified at site equals to 581 tonnes of CO_2 equivalent. The reported emission reductions are 29% less than the estimated emission reduction of 821 tCO_2e year for the period as per the revised CMA, Version 03.

3.5.7 Management system and quality control

Data was collected based on a data management procedure as described in the registered CMA version 03. 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, responsibilities have been detailed in the MR for the project activity and were found to be adequate as confirmed during the site visit. Thus, the management and operational system: the responsibilities and authorities for monitoring and reporting are in accordance with the responsibilities and authorities stated in the monitoring plan.

3.5.8 Resolution of Findings

Type of the Finding	☒CL	☒CAR	⊡FAR
Finding No	CL-1		

Ref. To MR	Section 4.3
Description of Finding	As per the approved monitoring plan, project owner has been recording energy export data on daily basis at each facility for conducting regular accuracy checks with CEB Invoice. A few cases reported that the sum of the daily manual recordings are not matching the total of the CEB Bill. Project owner needs to clarify this.
Summary of Project owner response	Energy meter integrated in the solar inverter calculates phase-exact and balanced electrical measured values and communicates these via Ethernet in the local network. In facilitating this communication system, the project proponent has connected a router with the inverter. Due to a sudden technical failure of this router, data transmission has delayed for a particular period of time. However, once the properly functional router is installed, all data recorded for the monitoring period are transmitted to the solar energy monitoring dash board.
Verification team Assessment	As a part of verification process, the data transmission system was inspected by the verification team. It was observed that the inverter based data reporting system has gone offline intermittently due to a technical failure of the router. The management has immediately taken a corrective action for rectifying the issue. Once the system is restored, all plant level data have been transmitted to the central data reporting and monitoring system.
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 1.2 , 2.1		
Description of Finding	In section, 1.9 of the approved CMA, the project proponent has stated that all projects in the bundle are to be completed and commissioned within the year 2022. However, project proponent has delayed the implementation of two project activities in bundle, Eildon Hall Estate & Bambrakelly Estate, Project proponent needs to provide a clarification in this regard.		

Summary of Project owner response	The project implementation at the above sites are delayed due to following reasons, 1. CEB Approvals is still pending for Bambrakelley and Eildobhall Projects 2. High price fluctuation of solar utilities due to deprecation of rupee
Verification team Assessment	In response to this clarification request, project proponent provided clarification in written format. Due to a technical issue of the national grid, CEB has not issued approvals for the above two projects. Project proponent confirmed that soon they will obtain approval for the projects. Further, the increased equipment costs of the renewable energy technologies led the management to delaying the implementation of the project activities. Based on the justification provided, the verification team decided to close the clarification request.
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**

Type of the Finding	⊡CL ☒CAR ⊡FAR
Finding No	CAR-1
Ref. To MR	Section 5.4
Description of Finding	In the baseline emission calculation, project proponent has applied the grid emission factor issued for the latest year 2020.
Summary of Project owner response	Due to the less exposure to the rule-based mechanism of the emission reduction calculation and reporting, the latest emission factor issued by the SLSEA was used in the emission reduction accounting. With the finding raised by the verification team, CMA approved emission factor was used in the calculation.
Verification team Assessment	The project proponent initially used 0.7298 t-CO2/MWh as grid emission factor in the baseline emission reduction calculation. As per the approved CMA, the project proponent requires to use the emission factor issued for the year 2019. This emission factor is applicable to the whole first crediting period. Upon the issuance of corrective action, project proponent used validated emission factor 0.7404 t-CO2/MWh in the baseline emission calculation. In the revised MR version 02, this issue was addressed by the project proponent based on which the CAR was closed by the verification team.
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**

4 VERIFICATION OPINION

Sri Lanka Climate Fund (SLCF) has performed the verification of the emission reductions that have been reported for the HPL Rooftop Solar PV Bundle Project for the period 05/01/2022 to 31/03/2023.

The project participants of the HPL Rooftop Solar PV Bundle Project are responsible for:

- the preparation of greenhouses gas emissions data and the reported greenhouse gas emission reductions from the project on the basis set out in the monitoring plan contained in the registered CMA version 03.
- the development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of greenhouse gas emission reductions of the project

It is the responsibility of Validation 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 HPL Rooftop Solar PV Bundle Project and the monitoring report (Version 02) dated 05 May 2023. 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 documented evidence and corroborated by an on-site assessment SLCFVD can confirm that:

- 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.

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 validation report and opinion.

In the course of the verification 02 Clarification Requests (CLs) and 01 Corrective Action Requests (CARs) was 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:

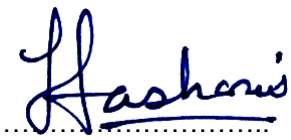
- The project is in line with all relevant host country criteria (Sri Lanka) and all relevant SLCCS requirements for carbon credits. Further the project activity is in compliance with the requirements set up by the applied approved CDM methodology AMS-I.D ver.18
- The monitoring plan is transparent and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

The conclusions of this report show, that the project, as it was described in the project documentation, is in line with all criteria applicable for the verification.

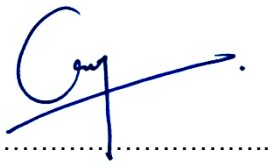
SLCF planned and performed the verification by obtaining evidence and other information and explanations that SLCF considers necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions of the "HPL Rooftop Solar PV Bundle Project" for the period 05/01/2022 to 31/03/2023 are fairly stated in the monitoring report (Version 02) dated 05 May 2023

The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology AMS-I.D. (version 18) and the monitoring plan contained in the registered CMA.



Harshani Abeyrathna
Technical reviewer
11 May 2023



Gayan Madusanka
Team Leader-Verification
11 May 2023

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 form 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