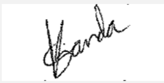
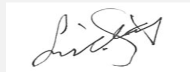
AKCAY 28.78 MW HYDROELECTRIC POWER PLANT PROJECT, TURKEY 2ND VERIFICATION REPORT

Report Prepared By: Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti.

Project Title	Akcay 28.78 MW Hydroelectric Power Plant Project, Turkey
Version	02.1
Report ID	647

Report Title	Akcay 28.78 MW Hydroelectric Power Plant Project, Turkey 2nd Verification Report
Client	Akcay Hes Elektrik Üretim A.Ş.
Pages	72
Date of Issue	26-10-2021
Prepared By	Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti.
Contact	Address: Prof. Dr. Aziz Sancar Cad. No: 27/6 06690 Çankaya/Ankara/TURKEY Tel.: 0090-312-287 51 22 Fax: 0090-312-287 33 73

	email: info@re-carbon.net Website: www.re-carbon.net	
Approved By	Mr. Sandeep KANDA Technical Reviewer	Mr. Anıl SÖYLER Certification Manager
		
Work Carried Out By	**Verification Team Leader**	**Verification Team Members**
	Mr. Anıl SÖYLER	N/A

Summary:

The project includes the installation of a runoff river hydroelectric power plant (HEPP) with an installed capacity of 31.98 MWm / 28.78 MWe on Akçay Creek in Aydın city of Turkey. The purpose of the project activity is to generate electricity and supply it into the public grid. The project activity reduces greenhouse gas (GHG) emissions that would have otherwise occurred in the absence of the project activity by avoiding electricity generation from fossil fuel sources and it includes the installation of vertical axis three Francis turbines two of which having installed capacity of 11.6 MWe each and one is 5.58 MWe.

The scope of the verification is the independent and objective review of the monitored GHG reductions. The verification activity is based on the validated and registered PD version 07 and dated 31/08/2009.

The project activity and the monitoring report are assessed against the requirements of the Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, approved consolidated baseline and monitoring Methodology “ACM0002: “Grid-connected Electricity Generation from Renewable Sources” version 10.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, according to the guidance given in the CDM Validation and Verification Standard version 02.0, CDM Project Standard version 02.0, CDM Project Cycle Procedure version 02.0 and VCS version 4.1.

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle.

During this verification 30 Corrective Action Requests (CARs) and 03 Clarification Requests (CLs) were raised all of which were resolved by either revising the Monitoring Report or by sending objective evidence to the verification team. There is also 01 Forward Action Request (FAR) that needs to be addressed during the next verification period.

Re Carbon Ltd. hereby confirms that the level of assurance of this verification report is reasonable, with respect to material errors, omissions and misrepresentations. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

Re Carbon Ltd. also confirms the following based on the results of document review for the period between 01 May 2013 and 13 August 2019[1]:

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
2013	35,713	0	0	35,713
2014	29,352	0	0	29,352
2015	75,681	0	0	75,681
2016	28,917	0	0	28,917
2017	23,058	0	0	23,058
2018	20,079	0	0	20,079

[1] The monitoring period is more than 6 years for this project activity in line with the VCS exemption approval letter dated as 17/08/2021.

2019	29,493	0	0	29,493
Total	**242,293**	**0**	**0**	**242,293**

CONTENTS

1 INTRODUCTION

1.1 Objective

Re Carbon Ltd. has been appointed by "Akcay Hes Elektrik Üretim A.Ş." to perform the second verification of the "Akcay 28.78 MW Hydroelectric Power Plant Project, Turkey" with the service agreement dated 12/02/2021. The objective of this verification activity is to assess, with objective evidence:

- if the monitoring report version 04 dated 13/09/2021 conforms with the requirements of the monitoring plan of the registered Project Description (PD) and the approved methodology
- if the project activity conforms with the monitoring report and the registered PD, and
- if the data reported in the monitoring report are complete and transparent.

1.2 Scope and Criteria

The scope of the verification is the independent and objective review of the monitored GHG reductions. The verification activity is based on the validated and registered PD version 07 and dated 31/08/2009.

The project activity and the monitoring report are assessed against the requirements of the Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, ACM0002: "Grid-connected Electricity Generation from Renewable Sources" version 10.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, according to the guidance given in the according to the guidance given in the CDM Validation and Verification Standard version 02.0, CDM Project Standard version 02.0, CDM Project Cycle Procedure version 02.0 and VCS version 4.1.

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle. Therefore, Re Carbon Ltd. can't be held liable by any party for decisions made or not made based on the verification and certification opinion, which will go beyond that purpose.

1.3 Level of Assurance

Re Carbon Ltd. hereby confirms that the level of assurance of this verification report is reasonable, with respect to material errors, omissions and misrepresentations. To guarantee this level of assurrance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

1.4 Summary Description of the Project

Akcay 28.78 MW Hydroelectric Power Plant Project, Turkey has been located on Akçay Creek in Aydın city of Turkey and developed by Akcay Hes Elektrik Üretim A.Ş. The project has vertical axis three Francis turbines two of which are having installed capacity of 11.6 MWe each and one is 5.58 MWe, so it has a total capacity of 31.98 MWm / 28.78 MWe in line with the electricity generation licence and provisional acceptance protocol and the project also supports the sustainable economic development in the region.

The key parameters about the technical design of the project are listed below in Table-1:

Table 1: Technical specifications of the project

Component	Property
Turbine type	Francis (Three turbines)
Turbine firm	Fujian Nanping Nandian (Three turbines)
Rotation	500 r / min (Two turbines) 750 r / min (One turbine)
Production year	2008 (Three turbines)
Average flow rate	14.5 m^3 / s (Two turbines) 7 m^3 / s (One turbine)
Number of turbines	3
Serial numbers of the turbines	ND200804801 & ND200804802 & ND200804803
Installed capacity of each turbine	11.6 MWe (Two turbines) 5.58 MWe (One turbine)

The start date of the project activity is 14/08/2009 which is the date when the project is commissioned and the electricity was first supplied to the grid as verified through the provisional acceptance protocol and the first crediting period is from 14th August 2009 until 13th August 2019 with two times renewable crediting period of 10 years.

2 VERIFICATION PROCESS

The relevant details with regards to the verification process are available in the following sub sections.

2.1 Method and Criteria

Re Carbon Ltd. has been appointed by “Akcay Hes Elektrik Üretim A.Ş.” to perform the second verification of the “Akcay 28.78 MW Hydroelectric Power Plant Project, Turkey” with the service agreement dated 12/02/2021. The objective of this verification activity is to assess, with objective evidence:

- if the monitoring report version 04 dated 13/09/2021 conforms with the requirements of the monitoring plan of the registered PD and the approved methodology
- if the project activity conforms with the monitoring report and the registered PD, and

- if the data reported in the monitoring report are complete and transparent.

The scope of the verification is the independent and objective review of the monitored GHG reductions. The verification activity is based on the validated and registered PD version 07 and dated 31/08/2009.

The project activity and the monitoring report are assessed against the requirements of the Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, ACM0002: “Grid-connected Electricity Generation from Renewable Sources” version 10.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, according to the guidance given in the according to the guidance given in the CDM Validation and Verification Standard version 02.0, CDM Project Standard version 02.0, CDM Project Cycle Procedure version 02.0 and VCS version 4.1.

There hasn’t been any sampling approach applied during the verification and all monitored data/parameters have been checked by the verification team.

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle. Therefore, Re Carbon Ltd. can’t be held liable by any party for decisions made or not made based on the verification and certification opinion, which will go beyond that purpose.

2.2 Document Review

The basis for the verification activity is the monitoring report version 01 dated 18/01/2021 which was submitted to the verification team on 03/02/2021. This monitoring report was revised due to the issued CARs and CLs, version 04 dated 13/09/2021 being the final version. The monitoring report and the monitoring activities were assessed against the registered PD version 07 and dated 31/08/2009, ACM0002: “Grid-connected Electricity Generation from Renewable Sources” version 10.0, the relevant CDM and VCS rules and regulations including CDM Validation and Verification Standard version 02.0, CDM Project Standard version 02.0, CDM Project Cycle Procedure version 02.0 and VCS version 4.1, the final validation report dated 06/10/2009 and the final initial verification report version 1.1 dated 04/09/2013.

The following actions were involved in the desk review:

- A review of the data and information presented to verify their completeness
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions

The list of the documents which were reviewed during the validation period is given in the Table 2-1 below:

Table 2-1: List of documents reviewed

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D01	Registered PD	07	31/08/2009
D02	Final Validation Report	-	06/10/2009
D03	Final Initial Verification Report	1.1	04/09/2013
D04	ACM0002: Grid-connected Electricity Generation from Renewable Sources	10.0	-
D05	Verification Service Agreement	-	12/02/2021
D06	Monitoring Report	01	18/01/2021
D07	Monitoring Report	02	15/04/2021
D08	Monitoring Report	03	24/05/2021
D09	ER Calculation Excel Sheet	01	18/01/2021
D10	ER Calculation Excel Sheet	02	15/04/2021
D11	CDM Validation and Verification Standard For Project Activities	2.0	29/11/2018
D12	CDM Project Standard For Project Activities	2.0	29/11/2018
D13	CDM Project Cycle Procedure For Project Activities	2.0	29/11/2018
D14	VCS Standard	4.1	19/09/2019
D15	VCS Program Guide	4.0	19/09/2019
D16	Exemption Approval Letter by VCS (About the Duration of Monitoring Period To Be More Than 6 Years)	-	17/08/2021
D17	EIA Positive Decision	-	17/09/2012
D18	Electricity Generation Licence (Last Amendment)	-	28/08/2019
D19	TEIAS Monthly Reading Protocols	-	05/2013-08/2019
D20	EPIAS Screnshoots		05/2013-08/2019
D21	Meters Test Reports	-	14/08/2009 14/02/2013 11/05/2014 20/05/2020
D22	Electricity Meters' Photos	-	-

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D23	Power Plant Coordinates	-	-
D24	Waste Water Storage Tank Photo	-	-
D25	Waste Water Transfer and Disposal Record	-	02/02/2021
D26	Hazardous Waste Storage Area Photos	-	-
D27	Hazrdous Waste Declaration Form to Ministry of Environment and Urbanization	-	2020
D28	Signed Letter by PP (About Proper Disposal of Domestic Waste by Bozdoğan Municipality)	-	31/05/2021
D29	Signed Letter by the Osmaniye Village Head (Mukhtar) (About the Contact Details of PP Relevant Staff In case of Any Complaint)	-	31/05/2021
D30	Feasibility Report	-	06/2017
D31	Letter by the PP (About Double Counting and Renewable Energy Certification (REC))	-	-
D32	Turbines' Nameplates	-	-
D33	Feasibility Report	-	06/2017
D34	Provisional Acceptance Protocol	-	14/08/2009
D35	Meteorological Records Published by the General Directorate of Meteorology in Turkey (About Annual Areal Precipitation) http://212.174.109.9/FILES/arastirma/yagis-degerlendirme/2015-2016alansal.pdf	-	-
D36	Noise Assessment Report	-	19/03/2015
D37	Social Security Rords for PP Site Employees	-	-
D38	Training Records	-	24/04/2018 11/02/2019 02/05/2019 09/05/2019 05/03/2020
D39	Site Photos	-	15/03/2021
D40	Monitoring Report	04	13/09/2021
D41	ER Calculation Excel Sheet	03	13/09/2021
D42	Monitoring Report	05	25/10/2021

2.3 Interviews

During the verification period follow-up interviews were realized by the verification team to further analyze the correctness and accurateness of the information provided.

The list of people who were interviewed during the online (remote) verification site visit handled on 15/03/2021 and through Zoom program is given in the Table 2-2 below:

Table 2-2: List of persons interviewed

Reference Number	Means of Interview[2]	Full Name	Title	Organization
I01	SV	Seçkin Demiryapan	Plant Manager	Akcay Hes Elektrik Üretim A.Ş.
I02	SV	Merve Aygenç	Consultant	GTE Karbon A.Ş.
I03	SV	Ece Akay Demir	Consultant	GTE Karbon A.Ş.
I04	SV	Birol Ay	Village Head (Mukhtar)	Osmaniye Village
I05	SV	Özgür Ay	Villager	Osmaniye Village
I06	SV	Biray Ay	Villager	Osmaniye Village
I07	SV	Özcan Ay	Villager	Osmaniye Village

2.4 Site Inspections

As a part of the verification activities, an online (remote) site visit was performed to the project activity site on 15/03/2021 and through Zoom program, details of which can be seen in the Table 2-3 below:

Table 2-3: Online site visit details

Points Verified	Source of Information
Implementation and operation of the proposed VCS project activity as per the registered PD	Document review, site visit and interviews with the PP representatives and local stakeholders from Osmaniye Village
Review of information flows for generating, aggregating and reporting the monitoring parameters	Document review, site visit and interviews with the PP representatives and local stakeholders from Osmaniye Village
Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance	Interviews with the PP representatives and local stakeholders from Osmaniye Village

[2] SV: Online site visit; T: Telephone; E: E-mail

Points Verified	Source of Information
with the monitoring plan in the PD	
Cross-check between information provided in the monitoring report and data from other sources such as plant log books, inventories, purchase records or similar data sources	Document review and site visit
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD and the selected methodology	Document review, site visit and interviews with the PP representatives and local stakeholders from Osmaniye Village
Review of calculations and assumptions made in determining the GHG data and emission reductions	Document review
Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Document review and interviews with the PP representatives and local stakeholders from Osmaniye Village

The project owner representatives and local stakeholders had been interviewed as in above during the online (remote) site visit using Zoom program and some photographic evidences like electricity meters, waste storage areas etc. have been taken along with the document review process to achieve the reasonable level of assurance during the verification as detailed in other sections of the report.

2.5 Resolution of Findings

The verification of this VCS project activity includes the following steps:

- Assessment of the conformity of the actual project activity and its operation with the registered PD version 07 and dated 31/08/2009
- Assessment of the compliance of the monitoring plan with the relevant methodology ACM0002: “Grid-connected Electricity Generation from Renewable Sources” version 10.0
- Assessment of the compliance of monitoring with the monitoring plan
- Assessment of data and calculation of greenhouse gas emission reduction
- Issuance of the verification report
- Independent technical review
- Approval of the verification report and request of issuance

The Verification Protocol is used for the assessment of each requirement during the execution of verification activities and is given in Annex-1 of this verification report.

The Verification Protocol consists of two tables:

- Table 1 (Monitoring Report and VCS verification requirements) and
- Table 2 (Resolution of Corrective Action, Forward Action and Clarification Requests)

The usage description of Table-1 in Verification Protocol is explained in Table 2-4 below:

Table 2-4: Explanation about Table-1 in Verification Protocol

Question	Reference	MoV*	Findings, comments, references and document sources	Draft & Final Conclusion
The requirements related with the monitoring report and verification	Gives reference to the legislation or documents where the relevant requirement is found	Explains how conformance with question is investigated. Examples of means of verification are Document Review (DR), Interview (I) and Not Applicable (NA)	Is used to elebarote and discuss the question and/or conformance to the question by giving related references and document sources based on which the finding is issued or evidence is checked	Either acceptable based on the evidence provided (OK), non-compliance with the requirement (CAR), further clarification (CL) due to insufficient, unclear or not transparent information, forward action request (FAR) that needs to be solved during the next periodic verification

The usage description of Table-2 in Verification Protocol is explained in Table 2-5 below:

Table 2-5: Explanation about Table-2 in Verification Protocol

Draft Report Clarifications, Forward Action and Corrective Action Requests by Verification Team	Ref. to Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
The all CL, FAR and CARs determined during the draft verification report should be listed here	Gives reference to the checklist questions in Table-1 of Verification Protocol	Is used to summarize the responses by project participants regarding the non-conformities	Is used to summarize the responses by verification and their conclusions

The Verification Protocol is fulfilled by the verification team in line with the descriptions above and all the CARs, CLs and FARs are listed in a transparent and clear manner.

During the verification period, a Verification Protocol which is attached in Annex 1 to this verification report was used to submit the findings to the project participants.

In line with Re Carbon Ltd. internal terminology and VCS version 4.1, the team reports the non-conformities in the forms of Corrective Action Requests (CARs), Clarification Requests (CLs) and Forward Action Requests (FARs). When and for which type of non-conformities CARs, CLs and FARs are issued are explained below:

- The verification team raises a CAR if one of the following occurs:
  - ➢ Non-conformities with the monitoring plan or methodology are found in the monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
  - ➢ Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impair the estimate of emission reductions;
  - ➢ Issues identified in a FAR during validation to be verified during verification have not been resolved by the project participants.
- The verification team raises a CL if information is insufficient or not transparent not clear enough to determine whether the applicable CDM and/or VCS requirements have been met.
- The verification team raises a FAR during verification for actions if the monitoring and reporting require attention and/or adjustment for the next verification period.

According to these principles total of 30 CARs and 03 CLs were issued all of which are listed in the Verification Protocol. There has been 01 FAR issued during the verification which shall be checked during the next verification process.

The appointment process of the verification team takes into account the technical area(s), sectoral scope(s), and relevant host country experience required amongst team members for the verification of the emission reductions achieved by the project activity in the relevant monitoring period for this verification. The relevant VCS verification and previous ITR experiences are also assessed during the selection of the team members and Independent Technical Reviewer (ITR), respectively. The verification team and ITR are assigned to this verification activity on 16/12/2020 taking all the above factors into consideration and as a result of the contract review process.

The verification team and ITR details are given in Table 2-6 below:

Table 2-6: Verification team and ITR details

Name	Role	Host Country Experience	Scope Coverage	Technical Expertise	Involvement*
Anıl Söyler	Team Leader	☒	☒	☒	A, DR, SV, R
Sandeep KANDA	ITR	☒	☒	☒	ITR

* Explanations for the abbreviations used for involvement types are as follows:

A : Administrative

DR : Desk Review

SV : Online Site Visit

R : Reporting

ITR : Independent Technical Review

As a final step of verification, the final documentation including the verification report and its annexes have to undergo an internal quality control by Re Carbon Ltd. This quality control is also referred to as Independent Technical Review process.

The Independent Technical Review is performed by another Team Leader who hasn't involved in the verification activities of this project activity. When the Team Leader finalizes the Verification Report, the report is sent to Independent Technical Reviewer, at this stage not only the report but all the supporting documents like emission factor calculations and relevant excel sheets etc. are reviewed.

Further CLs and CARs can be issued by the Independent Technical Reviewer during this review, to cover all the points that may need further clarification.

After all the CLs and CARs are closed, the verification report is reviewed and approved by the Team Leader, ITR and the Certification Manager/General Manager, and the request of issuance is submitted to the VCS Organization in line with the positive verification opinion and along with the all relevant documents.

2.5.1 Forward Action Requests

The verification team raises a FAR during verification for actions if the monitoring and reporting require attention and/or adjustment for the next verification period as explained in Section 2.5.

According to these principles, 01 FAR has been issued during the verification which shall be checked during the next verification process as in below:

FAR-1: “The reference to Vietnam in the project proponent information of project’s VCS registry link shall be revised for the next verification period.”

2.6 Eligibility for Validation Activities

Re Carbon Ltd. holds accreditation for the validation and verification activities in scope 1: “Energy Industry – Renewable/Non-renewable Sources” in which the project activity falls into.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project does not participate under any emission trading program and other GHG Programs including renewable energy certificates (RECs) and this is also confirmed by the PP through the signed and sealed letter by PP.

3.2 Methodology Deviations

N/A (There haven't been any methodology deviations applied).

3.3 Project Description Deviations

There haven't been any change on project's capacity, design and characteristics. However, the other entity involved in the project as carbon consultant was GAIA Carbon Finance in the project description and it's been changed as GTE Karbon Sürdürülebilir Enerji Eğitim Danışmanlik ve Ticaret A.Ş. at the time of this verification process as indicated in the monitoring report.

Re Carbon Ltd. hereby confirms that the change in the other entity involved in the project as carbon consultant has no impact on the project to be in compliance with the VCS rules and requirements and has no impact on the applicability of the methodology, additionality and the appropriateness of the baseline scenario.

Secondly, all data in emission reductions table are checked with EPİAŞ records as the main source and crosschecked with TEAIS meter reading protocol records. The main source of data has been defined as PMUM records during the initial monitoring period but PMUM has been replaced by EPIAS system as of 01/09/2015 in Turkey as confirmed by the local knowledge of the verification team and Re Carbon Ltd. hereby confirms that this change has no impact on the applicability of the methodology, additionality and the appropriateness of the baseline scenario.

3.4 Grouped Project

The project is not a grouped project.

4 VERIFICATION FINDINGS

The verification findings have been detailed as in below.

4.1 Project Implementation Status

Compliance of the Project Implementation with the Registered PD:

As a result of the reviewed documents, Re Carbon Ltd. hereby confirms that the project is fully implemented according to the description given in the registered PD.

It can also be confirmed through the reviewed documents that all physical features of the project activity including data collecting systems and storage have been implemented in accordance with the registered PD. The project activity is completely operational and the same has been confirmed through the provided evidences including EPIAS records, TEIAS meter reading protocols, electricity meter test protocols and the photos of electricity meters.

According to the registered PD, the estimated annual emission reduction is 49,610 tCO2e and corresponding total estimated amount for the monitoring period is 311,716 tCO_2e. The actual values achieved for the current monitoring period is 242,293 tCO_2e. The actual amount of emission reduction for the current monitoring period is about 22% less than the estimated emission reduction amount. However, the difference is due to the annual changes and deviations in the precipitation regime and so as in the water flow. Besides that, the difference in the values does not lead to a substantial increment of the ER in this period in relation to the estimates in the registered PD.

According to the official records published by the General Directorate of Meteorology in Turkey, annual areal precipitation in the Aegean Region and Aydin city, where the project is located, is significantly higher in 2015.[3] (Please see Figure-14 (Şekil-14 in Turkish) and Figure-17 (Şekil-17 in Turkish) in the provided web link). Therefore, there could be decrease and increase in emission reduction amount throughout the long lifetime of the project activity considering the deviations in annual precipitation amount and it could be concluded that the increase in 2015 does not impact the materiality of the project.

The project also contributes to SDG 7 (Affordable and Clean Energy with 328,773.97 MWh net electricity generation), SDG 8 (Decent Work and Economic Growth with 13 employed staff during the recent year of operation period) and SDG-13 (Climate Action with achieved emission reduction of 242,293 tCO_2e) during the monitoring period.

The project was commissioned on 14/08/2009 which was verified by the provisional acceptance protocol. The project activity does not consist of more than one site and does not have any phased implementation.

[3] http://212.174.109.9/FILES/arastirma/yagis-degerlendirme/2015-2016alansal.pdf

The GHG emission reductions generated by the project are not included in an emission trading program or any other mechanism that includes GHG allowance trading, because of the position of the host country.

The project activity has not received any other form of environmental credits, as there are no such crediting schemes in the host country as declared by the PP.

The only other eligible GHG program in the host country is Gold Standard and the certification program is Renewable Energy Certification (REC), and the project hasn't been listed in any of them, hence Re Carbon Ltd. confirms that the project has not participated or been rejected under any other GHG programs since the validation.

Remaining Issues from Validation or Previous Verifications

There hasn't been any issued Forward Action Requests (FARs) from the initial verification stage in line with the provided initial verification report version 1.1 dated as 04/09/2013.

Compliance of the Monitoring Plan with the Monitoring Methodology

The monitoring plan is in accordance with the approved methodology, ACM0002 version 10.0, applied by the project activity.

In line with the methodology and the registered PD, the monitored parameters are quantity of net electricity generation supplied by the project plant to the grid (Egfacility,y) and installed capacity of the hydro power plant after the implementation of the project activity (CAP_{PJ}) as in below:

- $Eg_{facility,y}$: The quantity of net electricity delivered to the grid has been calculated with the EPIAS (the financial settlement centre of TEIAS) records provided to the PP by TEIAS. The net electricity is measured continuously by two main electricity meters at the grid interface and recorded monthly. There are also two back up electricity meters. That means, the electricity generation and consumption values have been determined through the summation of the measured values of two main meters and checked through two back up meters. All readings and billings are done via EPIAS system which is the legal database of the Ministry. During this verification, all EPIAS and TEIAS meter reading records have been reviewed by the verification team. The project mainly uses its own electricity however during the times when there is no generation, the project imports electricity from the grid. There are also internal reviews of the metered data which is checked by different parties. SCADA system is also available from which daily reports are taken and the data collected daily is saved in plant manager computer and backed up.
- CAP_{PJ}: According to the monitoring plan in the registered PD, the installed capacity of the power plant is monitored supplier information on the equipment and the number of turbines. The project has vertical axis three Francis turbines two of which are having installed capacity of 11.6 MWe each and one is 5.58 MWe, so it has a total capacity of 28.78 MWe in line with the electricity generation licence and provisional acceptance protocol. Re Carbon Ltd. hereby confirms that there hasn't been any change regarding the total installed capacity of the project.

The water left from Kemer Dam's irrigation channel has been utilized by the project activity and so, it has no reservoir area as identified in the registered PD.

All data collected as part of monitoring will be archived electronically by the project owner and be kept at least for 2 years after the end of the last crediting period.

CAR-23 and CAR-24 were issued regarding the monitoring and they had been closed out as detailed in Annex-1.

<u>Compliance with the Calibration Frequency Requirements for Measuring Instruments:</u>

The net electricity is measured continuously by two main electricity meters at the grid interface and recorded monthly. There are also two back up electricity meters.

The calibrated electricity meters were installed as per the regulations. Although, re-calibration is required after ten years, nevertheless, in case of irregular difference between main and cross-check spare meters, TEIAS (grid company) responsible are informed for the intervention. That means, TEIAS is responsible for the calibration and maintenance of the meters. The tests for the meters were performed on 14/08/2009, 14/02/2013, 11/05/2014 and 20/05/2020, respectively and those test reports were provided to VVB.

The serial number of the currently available main meters (installed on 20/05/2020) is 9276783 (it is EMH model and accuracy class is C-0.5s) and 9276784 (it is EMH model and accuracy class is C-0.5s) and those of the currently available back up meters is 84051667 (it is Itron model and accuracy class is C-2) and 84051668 (it is Itron model and accuracy class is C-2), respectively and these have been verified through the electricity meters' photos and meter test protocols. All these meters are bi-directional (meter the energy in two directions – generation and consumption). The serial numbers of dismantled main meters (installed on 14/0/2013) are 376480 and 471186 (both are Elster model and accuracy class is 0.5s) and those of back up meters are 376486 and 471187 (both are Elster model and accuracy class is 0.5s).

CAR-23 was issued regarding the calibration and meter testing and this CAR had been closed as detailed in Annex-1.

4.2 Safeguards

4.2.1 No Net Harm

There hadn't been any observed significant environmental impact of the project activity as indicated in the registered PD and this was also confirmed through the reviewed documents. The EIA positive decision dated as 17/09/2012 by the General Directorate of Environment and Urbanization was also provided by the PP.

Besides that, the photos of waste storage areas and the hazardous waste declaration form submitted to the Ministry of Environment and Urbanization for 2020 and waste water transfer and disposal record dated as 02/02/2021 have been provided by the PP. The signed letter by PP about proper disposal of domestic waste and dated as 31/05/2021 has also been provided to VVB. There hasn't been any fish passage within the context of the project activity since it does not include the regulator where the fish passage is located.

4.2.2 Local Stakeholder Consultation

There hadn't been any complaint raised by the interviewed local stakeholders during the verification site visit as detailed in Section 2.3.

The local stakeholders as stated in the Table 2-2 above were interviewed about the following issues and there hadn't been any complaint by the interviewed local stakeholders during the online site visit:

- Noise due to the project activity
- Impact on the aquatic life where the project had been constructed
- Sufficiency of local employment (The interviewed local stakeholders were pleased about the provided local employment opportunities by the PP)
- Waste management practices implemented by PP

It was also concluded that the grievance mechanism is in place and this was also confirmed by the interviewed local stakeholders during the online site visit. The documents showing the contact details of the relevant person within PP with the signature of Osmaniye Village Mukhtar (Village Head) and dated as 31/05/2021 were also provided to VVB.

4.3 AFOLU-Specific Safeguards

N/A (The project is not an AFOLU project).

4.4 Accuracy of GHG Emission Reduction or Removal Calculations

EPİAŞ records are presented for all months of the monitoring period. All data in emission reductions table are checked with EPİAŞ records as the main source and crosschecked with TEAIS meter reading protocol records. The net electricity generated during the current monitoring period was as follows in Table 4-1 below:

Table 4-1: Net electricity generation

Period	Amount	Compliance Check
01/05/2013 - 31/12/2013	Export to Grid: 55,387.07 MWh Import from Grid: 17.43 MWh Net electricity supplied to grid: 55,369.64 MWh	Monthly EPIAS records
01/01/2014 - 31/12/2014	Export to Grid: 45,541.55 MWh Import from Grid: 33.44 MWh Net electricity supplied to grid: 45,508.11 MWh	Monthly EPIAS records
01/01/2015 - 31/12/2015	Export to Grid: 117,352.73 MWh Import from Grid: 16.65 MWh Net electricity supplied to grid: 117,336.08 MWh	Monthly EPIAS records
01/01/2016 - 31/12/2016	Export to Grid: 44,867.98 MWh Import from Grid: 35.01 MWh	Monthly EPIAS records

Period	Amount	Compliance Check
	Net electricity supplied to grid: 44,832.97 MWh	
01/01/2017 - 31/12/2017	Export to Grid: 35,791.67 MWh Import from Grid: 42.49 MWh Net electricity supplied to grid: 35,756.82 MWh	Monthly EPIAS records
01/01/2018 - 31/12/2018	Export to Grid: 31,176.37 MWh Import from Grid: 45.27 MWh Net electricity supplied to grid: 31,131.10 MWh	Monthly EPIAS records
01/01/2019 - 13/08/2019	Export to Grid: 45,750.56 MWh Import from Grid: 23.56 MWh Net electricity supplied to grid: 45,726.99 MWh	Monthly EPIAS records
Total	Export to Grid: 328,987.45 MWh Import from Grid: 213.48 MWh Net electricity supplied to grid: 328,773.97 MWh	Monthly EPIAS records

Emission factor and data and parameters available before validation are also applied in line with the registered PD and baseline excel sheet for validation.

According to the applied methodology ACM0002 version 10.0 and the registered PD, the GHG emission reductions are calculated as follows:

$ER_y = BE_y – PE_y$

Where:

ER_y = Emission reductions in year y (tCO_2e/yr)

BE_y = Baseline emissions in year y (tCO2e/yr)

PE_y = Project emissions in year y (tCO2e/yr)

According to the applied methodology, for hydropower plants if the power density of the reservoir is higher than 10 W/m^2, then Pey = 0. The power density of the project is calculated as follows:

$$PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}}$$

Where;

PD = Power density of the project activity (W/m^2)

Cap_{PJ} = Installed capacity of the hydro power plant after the implementation of the project activity (W)

Cap_{BL} = Installed capacity of the hydro power plant before the implementation of the project activity (W). For new hydro power plants, this value is zero

A_{PJ} = Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (m^2)

A_{BL} = Area of the single or multiple reservoirs measured in the surface of the water, before the implementation of the project activity, when the reservoir is full (m^2). For new reservoirs, this value is zero

The project activity is a greenfield run-of–river hydropower project, so Cap_{BL} and A_{BL} are equal to zero.

A_{PJ} = 0 m^2 (according to the provided PD of the project since there is no reservoir in the project)

Cap_{PJ} = 28,780,000 W

The power density is calculated as follows:

PD = 28,780,000 / 0 = ∞ W/m²

As the power density is higher than 10W/m^2, the project emissions of the project are equal to zero. Therefore, the emission reductions generated during the monitoring period are equal to baseline emissions.

The baseline emissions in the monitoring period are calculated using the following formula:

$BE_y = EG_{PJ,y} * EF_{grid,CM,y}$

Where;

BE_y= Baseline emissions in year y (t CO_2/y)

$EG_{PJ,y}$= Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/y)

$EF_{grid,CM,y}$= Combined margin CO_2 emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system"(tCO_2 / MWh)

Since the project is a greenfield renewable power plant:

$EG_{PJ,y} = EG_{facility,y}$=The amount of net electricity produced and fed into the grid by the project in year y.

Combined margin CO_2 emission factor ($EF_{grid,CM,y}$) is calculated once during the validation of the project activity and is valid throughout the first crediting period of 10 years.

It has been confirmed that the data used for emission reductions are correct. The grid emission factor taken is 0.645 tCO_2 / MWh and the value is same as fixed ex-ante in the registered PD.

It is also confirmed that the methods and formulae used for calculating baseline emissions are in line with the relevant methodology and the registered PD. The net electricity generation is multiplied with the grid emission factor to arrive at the emission reductions value.

According to the registered PD, the estimated emission reduction for this monitoring period would be 311,716 tCO_2e corresponding to the monitoring period. However, the project in operation totally reached 242,293 tCO_2e in this period.

The vintage break-up of the emission reductions during the current monitoring period was as follows in Table 4-2 below:

Table 4-2: Emission reductions

Period	Emission reductions (tCO_2e)
01/05/2013 - 31/12/2013	35,713
01/01/2014 - 31/12/2014	29,352
01/01/2015 - 31/12/2015	75,681
01/01/2016 - 31/12/2016	28,917
01/01/2017 - 31/12/2017	23,058
01/01/2018 - 31/12/2018	20,079
01/01/2019 - 13/08/2019	29,493

Calculations have been reproduced by DOE and the source data (EPIAS records) are presented by PP as explained above.

CAR-26, CAR-27 and CAR-28 were issued regarding the emission reduction calculations and the data used for these calculations and it had been closed as detailed in Annex-1. Therefore, Re Carbon Ltd. hereby confirms that the above mentioned electricity generation figures and GHG emission reduction calculations are presented and quantified correctly and are in accordance with the monitoring methodology ACM0002 version 10.0 and the monitoring plan given in the registered PD.

4.5 Quality of Evidence to Determine GHG Emission Reductions or Removals

The GHG emission reductions are a function of the net electricity generated and fed into the grid by the project activity and the combined margin emission factor which is determined during validation for the whole crediting period. According to the validation report version 1.1 dated 04/09/2013, the combined margin emission factor had been validated and will remain the same for the first crediting period of 10 years as 0.645 tCO2/MWh.

The only parameter that needs to be closely verified is the net electricity generation and this value is taken from the EPIAS records. EPIAS records are the basis for billing and these records for each month has been submitted to and reviewed. They are recorded and saved automatically by the relevant government authority and there is no base for any option of material information.

Level of materiality is ensured by application of “Guideline on the Application of Materiality in Verifications” version 02. To guarantee this level of assurance, all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

As a cross check means, TEIAS meter reading protocol records which include the monthly generation and consumption figures of the plant for every month have been reviewed by the verification team.

Therefore, Re Carbon Ltd. hereby confirms that the evidence used to determine the GHG emission reductions are sufficient in quantity and appropriate in quality.

4.6 Non-Permanence Risk Analysis

N/A. (The project isn't an AFOLU project).

5 VERIFICATION CONCLUSION

Re Carbon Ltd. has performed the second verification of “Akcay 28.78 MW Hydroelectric Power Plant Project, Turkey” which is a project with the VCS registry reference number “1174” for the period between 01 May 2013 and 13 August 2019. The scope of the activities cover the verification and certification of GHG emissions reductions reported in monitoring report version 04 dated 13/09/2021.

GTE Karbon Sürdürülebilir Enerji Eğitim Danışmanlik ve Ticaret A.Ş. is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project monitoring plan indicated in the registered PD. The development and maintenance of the records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of both GTE Karbon Sürdürülebilir Enerji Eğitim Danışmanlik ve Ticaret A.Ş. and the management of the project. The development and maintenance of the records and the related monitoring procedures are in accordance with the monitoring report version 04.

The verification has been performed by a verification team consisting of “Anıl Söyler as team leader and Sandeep KANDA as ITR” and the project activity was checked against the applicable rules and regulations of CDM including Section I of CDM Modalities and Procedures, the relevant guidance and decisions of the COP/MOP, CDM EB and VCS Organization, CDM Validation and Verification Standard version 02.0, CDM Project Standard version 02.0, CDM Project Cycle Procedure version 02.0 and VCS version 4.1.

Re Carbon Ltd. hereby confirms that the project activity “Akcay 28.78 MW Hydroelectric Power Plant Project, Turkey” in Turkey is implemented in accordance with the validated and registered PD version 07 and dated 31/08/2009. The monitoring system is in place and the emission reductions are calculated without material misstatements as per the applied approved methodology, which is ACM0002 version 10.0. It is also confirmed that the level of assurance of this verification report is reasonable.

Re Carbon Ltd. confirms the following based on the results of document review for the period between 01 May 2013 and 13 August 2019:

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
2013	35,713	0	0	35,713
2014	29,352	0	0	29,352
2015	75,681	0	0	75,681
2016	28,917	0	0	28,917
2017	23,058	0	0	23,058
2018	20,079	0	0	20,079

2019	29,493	0	0	29,493
Total	**242,293**	**0**	**0**	**242,293**

Anıl SÖYLER
Team Leader
26/10/2021

Sandeep KANDA
ITR
26/10/2021

Anıl SÖYLER
Certification Manager
26/10/2021

ANNEX 1: VERIFICATION PROTOCOL

Table 1 – VCS Monitoring Report (MR) Form Requirements

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
Cover Page and General Requirements					
1. Are all items in the box at the bottom of the cover page completed using Arial 10.5 pt, black, regular (non-italic) font?	VCS Std. Version 4.0	DR	Arial 10.5 pt has been used in the MR.	OK	OK
2. Are the followings provided at the cover page in a tabular format?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
2.1. Name of the project?	VCS Std. Version 4.0	DR	Please include the project name in line with VCS registry and registered PD.	CAR-1	ok
2.2. Version number of the VCS MR?	VCS Std. Version 4.0	DR	This is available as version 01.	OK	OK
2.3. Report ID of the document	VCS Std. Version 4.0	DR	Please include the report ID of the document in the cover page of the MR.	CAR-2	OK
2.4. The issuance date of the document in DD-Month-YYYY format?	VCS Std. Version 4.0	DR	This is available as 18/01/2021 in the initial version of the MR.	OK	OK
2.5. VCS project database ID, if registered	VCS Std. Version 4.0	DR	This is available as 1174.	OK	OK
2.6. Monitoring period in DD-Month-YYYY to DD-Month-YYYY format	VCS Std. Version 4.0	DR	Please correct the monitoring period end date considering the maximum monitoring period duration.	CAR-3	OK
2.7. Individual or entity that prepared the document?	VCS Std. Version 4.0	DR	This is available as GTE but please include the complete company name in the cover page of the MR.	CAR-4	OK
2.8. Physical address, telephone, email, website?	VCS Std. Version 4.0	DR	These details are available.	OK	OK
3. Is this box available on the title page of the final document?	VCS Std. Version 4.0	DR	This is available in the version 01 of the MR.	OK	OK
4. Is there “Table of Contents” in the VCS MR?	VCS Std. Version 4.0	DR	This is available.	OK	OK
5. Is the VCS MR used as a basis for verification prepared in accordance with the latest template and guidance from the VCS?	VCS Std. Version 4.0	DR	The latest available template has been used.	OK	OK
6. Are the VCS MR and other documents required under the VCS Program in English?	VCS Std. Version 4.0	DR	MR and all other required documents are in English except for some legal permit documents since they are in Turkish.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1. PROJECT DETAILS					
1.1. Summary Description of the Implementation Status of Project					
1.1.1. Has a brief summary of the project description provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	a) The brief summary is available but please include the net electricity generation and achieved ER values including the comparison results with the expected values under Section 1.1 of the MR. b) Please indicate the installed capacity of the project as both MWm and MWe under Section 1.1 of the MR.	CAR-5	OK
1.1.2. Has the purpose of the project activity and the measures taken to reduce greenhouse gas emissions been provided under section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	Please include the purpose of the project activity under Section 1.1 of the MR.	CAR-6	OK
1.1.3. Has a brief description of the installed technology and equipment been provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	a) Please provide the brief description of the installed technology and equipment including turbine models, serial numbers and their brief specifications in the Section 1.1 of the MR and please also provide the reference documents and turbine name plates. b) Please clarify whether there is any dam within the context of the project activity in the Section 1.1 of the MR.	CAR-7	OK
1.1.4. Has the relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.) been provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	These have been provided under Section 1.1 of the MR but please see CAR-3.	CAR-3	OK
1.1.5. Has the total emissions reductions achieved in this monitoring period been provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	Please include the comparison of achieved ER results with the expected values in the ER Calculation Excel spreadsheet.	CAR-8	OK
1.2. Sectoral Scope and Project Type					

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1.2.1. Is it indicated whether this a grouped project under Section 1.2 of the MR?	VCS Std. Version 4.0	DR	This has been indicated and the project is not a grouped project.	OK	OK
1.2.2. Is the sectoral scope(s) applicable to the project indicated?	VCS Std. Version 4.0	DR	This has been indicated as Scope 1: “Energy Industry – Renewable/Non-renewable Sources” but please clarify the small scale reference in the Section 1.2 of the MR.	CL-1	OK
1.2.3. Is the category of the project activity specified?	VCS Std. Version 4.0	DR	N/A (Since this isn’t an AFOLU project, the category is not applicable).	OK	OK
1.3. Project Proponent					
1.3.1. Are the contact information for the project proponent(s) provided in the tabular format?	VCS Std. Version 4.0	DR	a) Please use the table format available in the Section 1.3 of the MR template. b) Please clarify if the project proponent is the same with the registered PD. c) Please clarify the reference to Vietnam in the project proponent information of project’s VCS registry link.	CAR-9	OK
1.4. Other Entities Involved in the Project					
1.4.1. Are the contact information and roles/responsibilities for any other entities involved in the development of the project provided?	VCS Std. Version 4.0	DR	Please clarify if the GTE Karbon is project proponent in this project.	CL-2	OK
1.5. Project Start Date					
1.5.1. Is the project start date (the date on which the project began reducing or removing GHG emissions) indicated in day, month and year format?	VCS Std. Version 4.0	DR	The project start date is available as 14/08/2009 in the Section 1.5 of the MR along with the justification for the mentioned start date.	OK	OK
1.6. Project Crediting Period					

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1.6.1. Is the total crediting period including the day, month and year for the start and end dates and the total number of years indicated?	VCS Std. Version 4.0	DR	Please indicate the total crediting period including the day, month and year for the start and end dates and the total number of years and crediting period type.	CAR-10	OK
1.7. Project Location					
1.7.1. Has complete information on the location of the project activity, including town, city, country and GPS coordinates been provided under Section 1.7 of the MR?	VCS Std. Version 4.0	DR	Please include the reference document information for all provided coordinates considering the current status of the project in Section 1.7 of the MR.	CAR-11	OK
1.8. Title and Reference of Methodology					
1.8.1. Is the following information provided regarding the methodology(s) applied to the project?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
1.8.1.1. The title of the methodology(ies)	VCS Std. Version 4.0	DR	This is available.	OK	OK
1.8.1.2. The reference of the methodology(ies)	VCS Std. Version 4.0	DR	This is available.	OK	OK
1.8.1.3. The version number of the methodology(ies)	VCS Std. Version 4.0	DR	This is available.	OK	OK
1.8.2. Is the following information provided regarding the tool(s) applied to the project?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
1.8.2.1. The title of the tool(s)	VCS Std. Version 4.0	DR	The titles of the referred tools are available.	OK	OK
1.8.2.2. The version number of the tool(s)	VCS Std. Version 4.0	DR	The version numbers of the referred tools have been provided.	OK	OK
1.9. Participation under Other Programs					

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
1.9.1. Has it been indicated whether the project has been registered or seeking registration under any other GHG programs?	VCS Std. Version 4.0	DR	a) Please clarify if the project has been registered or seeking registration under other GHG programs in the Section 1.9 of the MR. b) The signed and sealed letter on company letterhead confirming about the project hasn't been registered, or hasn't been seeking registration under any other GHG programs hasn't been provided.	CAR-12	OK
1.9.2. If the project has been registered under any other GHG programs, have the PPs provided the registration number and details?	VCS Std. Version 4.0	DR	Please see CAR-12.	CAR-12	OK
1.9.3. If the project has been registered under any other GHG programs, have the details of any GHG credits claimed under such programs been provided in the Section 1.9 of the MR?	VCS Std. Version 4.0	DR	Please see CAR-12.	CAR-12	OK
1.10. **Other Forms of Credit**					
1.10.1. Does the project reduce GHG emissions from activities that are included in an emissions trading program; or any other mechanism that includes GHG allowance trading?	VCS Std. Version 4.0	DR	a) Please clarify if the project has created another form of credit (e.g. renewable energy certificates) in the Section 1.10 of the MR. b) The signed and sealed letter on company letterhead confirming about the project hasn't been created other forms of credit (e.g. renewable energy certificates) hasn't been provided.	CAR-13	OK
1.10.2. If the project reduces GHG emissions from activities that are included in an emissions trading program; or any other mechanism that includes GHG allowance trading, have the PPs provided evidence on the following?	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK
1.10.2.1. the reductions or removals generated by the project have or will not be used for compliance under	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
such program(s) or mechanism(s)					
1.10.3. Have the project(s) created other forms of environmental credit (for example renewable energy certificates)?	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK
1.10.4. If the project(s) created other forms of environmental credit (for example renewable energy certificates), has the PPs provided all relevant information about the GHG-related environmental credits and the related program?	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK
1.10.5. Have all other programs under which the project is eligible to participate (to create another form of GHG-related environmental credit) been listed?	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK
1.11. Sustainable Development					
1.11.1. Has it been described how the project contributes to achieving any nationally stated sustainable development priorities, including any provisions for monitoring and reporting same?	VCS Std. Version 4.0	DR	a) Please clearly explain the contribution of the project to each relevant SDG in the Section 1.11 of the MR. b) Please include the actual results of the contributed sustainable development indicators by the project during the monitoring period in the Section 1.11 of the MR.	CAR-14	OK
2. SAFEGUARDS					
2.1. No Net Harm					
2.1.1. Has it been summarized by PPs any potential negative environmental and socio-economic impacts of the project activity and the steps taken to mitigate them?	VCS Std. Version 4.0	DR	a) Please explain if there is any potential negative environmental and socio-economic impacts along with the relevant justification in the Section 2.1 of the MR. b) Please provide the following records: - Waste water storage tank photographic evidences - Hazardous and domestic waste storage area photographic evidences	CAR-15	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
			- Official hazardous waste transfer and disposal records - Waste water transfer and disposal records - Fish passage photographic evidences, if any, along with the design documents - Life line water official records signed by State Hydraulic Works -The noise assessment report, if any		

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
2.2. Local Stakeholder Consultation					
2.2.1. Has the process regarding the local stakeholder consultation been described by PPs including the following?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
2.2.1.1. The procedures or methods used for engaging local stakeholders (e.g. dates of announcements or meetings, periods during which input was sought)	VCS Std. Version 4.0	DR	Please explain clearly the procedures or methods used for engaging local stakeholders (e.g. dates of announcements or meetings, periods during which input was sought) in the Section 2.2 of the MR.	CAR-16	OK
2.2.1.2. The procedures or methods used for documenting the outcomes of the local stakeholder communication	VCS Std. Version 4.0		Please explain clearly the procedures or methods used for documenting the outcomes of the local stakeholder communication in the Section 2.2 of the MR.	CAR-17	OK
2.2.1.3. The mechanism for on-going communication with local stakeholders conducted prior to verification	VCS Std. Version 4.0		a) Please clarify whether there is complaint received during the current monitoring period in the Section 2.2 of the MR. b) Please provide the signed document about the contact details of the PP relevant staff in case of any complaint by Adıgüzeller village and whether there is any complaint received by the Muhktar from the local stakeholders. c) Please include the current status of the ongoing communication with the local stakeholders instead of the sentences like expected or will be conducted etc. d) Please include all local stakeholder communication details associated with the current monitoring period in the Section 2.2 of the MR.	CAR-18	OK
2.2.1.4. How due account of all and any input received during ongoing communication has been taken	VCS Std. Version 4.0		Please see CAR-18.	CAR-18	OK
2.2.1.5. The details on any updates to the project design or justifying why updates are not appropriate.	VCS Std. Version 4.0		Please clarify in the Section 2.2 of the MR whether there are any updates to the project design or please justify why updates are not appropriate.	CAR-19	OK
3. IMPLEMENTATION STATUS					
3.1. Implementation Status of The Project Activity					

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
3.1.1. Has a description of the implementation and operational status of the project as of this monitoring period been provided under section 3.1 of the MR?	CDM-MR-FORM Version 7.0	DR	The description of the project activity has been provided in the Section 1.1 of the MR.	OK	OK
3.1.2. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in section 3.1 of the MR?	CDM-MR-FORM Version 7.0	DR	This has been provided in the Section 1.1 of the MR.	OK	OK
3.1.3. Has the starting date of operation of the project activity been provided under Section 3.1 of the MR?	EB93 Report Annex 4 §257b	DR	This has been provided as 14/08/2009.	OK	OK
3.1.4. If the project activity consists of more than one site, has the status of implementation and starting date of operation for each site been clearly described under Section 3.1 of the MR?	EB93 Report Annex 4 §257b	DR	N/A	OK	OK
3.1.5. If the implementation of the project activity planned to be realized in different phases, has the progress of the proposed VCS project activity achieved in each phase been indicated under Section 3.1 of the MR?	EB93 Report Annex 4 §257b	DR	N/A	OK	OK
3.1.6. Do the actual project activity and its operation comply with the registered PD and/or an approved revised PD??	EB93 Report Annex 5 §357a	DR	The actual project activity and its operation complies with the registered PD.	OK	OK
3.1.7. Have the PPs implemented and operated the VCS project activity as per the descriptions contained in the registered PD?	EB93 Report Annex 5 §357a	DR	The actual project activity and its operation complies with the registered PD.	OK	OK
3.1.8. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in Section 3.1 of the MR?	CDM-MR-FORM Version 7.0	DR	This has been provided in the Section 1.1 of the MR.	OK	OK
3.1.9. Are there any other changes (e.g. to project proponent or other entities) with respect to the registered project?	VCS Std. Version 4.0	DR	Please clarify in the Section 3.1 of the MR whether there are any changes with respect to other entities involved in the project comparing with the registered project.	CAR-20	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
3.2. Deviations					
3.2.1. **Methodology Deviations**					
3.2.1.1. Are there any deviations from the methodology? •	VCS Std. Version 4.0	DR	N/A (There haven't been any deviations from the methodology).	OK	OK
3.2.1.2. If there are any deviations from the methodology, are these deviations described properly?	VCS Std. Version 4.0	DR	N/A (There haven't been any deviations from the methodology).	OK	OK
3.2.1.3. If there are any deviations from the methodology, are these deviations justified properly and clearly?	VCS Std. Version 4.0	DR	N/A (There haven't been any deviations from the methodology).	OK	OK
3.2.2. **Project Description Deviations**					
3.2.2.1. Are there any deviations from the registered project description?		DR	a) Please delete the unnecessary section numbers like 3.1 and 3.2 under the Section 3.2 of the MR. b) Please also clarify in the Section 3.2.2 of the MR whether there are any changes with respect to other entities involved in the project comparing with the registered project.	CAR-21	OK
3.2.2.2. If there are any deviations from the project description, are these deviations described properly?	VCS Std. Version 4.0	DR	Please see CAR-21.	CAR-21	OK
3.2.2.3. If there are any deviations from the project description, are these deviations justified properly and clearly?	VCS Std. Version 4.0	DR	Please see CAR-21.	CAR-21	OK
3.2.2.4. Is the outcome of the deviation from the project description provided?	VCS Std. Version 4.0	DR	Please see CAR-21.	CAR-21	OK
3.3. Grouped Projects					
3.3.1. Is this a grouped project?	VCS Std. Version 4.0	DR	N/A (The project isn't a grouped project).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
3.3.2. If it is a grouped project, is the relevant information about new instances of the project activity(ies) provided?	VCS Std. Version 4.0	DR	N/A (The project isn't a grouped project).	OK	OK
3.3.3. If it is a grouped project, is it demonstrated clearly and transparently that each new instance of the project activity(s) meets the eligibility criteria set out in the project description?	VCS Std. Version 4.0	DR	N/A (The project isn't a grouped project).	OK	OK
4. DATA AND PARAMETERS					
4.1. Data and Parameters Available at Validation					
4.1.1. Has all the data that is determined only once for the crediting period but are used after registration of the project, been listed under Section 4.1 using the tabular format?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	All data that is determined only once for the crediting period but are used after registration of the project, has been listed under Section 4.1 of the MR but please clarify the validity of the grid emission factor during which crediting period in the comments row.	CL-3	OK
4.1.2. If all the data that is determined only once for the crediting period but are used after registration of the project, does the listed data include all the parameters used to calculate baseline, project and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CL-3.	CL-3	OK
4.1.3. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the name of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CL-3.	CL-3	OK
4.1.4. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the unit of the data/parameters given in accordance with the registered VCS PD and	CDM-MR-FORM Version 7.0 VCS Std.	DR	Please see CL-3.	CL-3	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
the applied approved methodology?	Version 4.0				
4.1.5. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the description of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.6. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the source of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.7. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the values applied of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.8. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the justification of choice of data or description of measurement methods and procedures applied been provided?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.9. In the data/parameter tables provided under Section 4.1 of the MR, for each data has it been indicated what the data/parameters are used for (baseline/project /leakage emission calculations)?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2. Data and Parameters Monitored					
4.2.1. Has all the data that are monitored been listed under Section 4.2 using the tabular format?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	EGfacility,y and $Cap_{pj,\ y}$ are the monitored parameters in line with the registered PD.	OK	OK
4.2.2. In the data/parameter tables provided under section 4.2 of the MR, for each data has the name of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	EGfacility,y and $Cap_{pj,\ y}$ are the monitored parameters in line with the registered PD.	OK	OK
4.2.3. In the data/parameter tables provided under section 4.2 of the MR, for each data has the unit of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	The units are available in line with the registered PD.	OK	OK
4.2.4. In the data/parameter tables provided under section 4.2 of the MR, for each data has it been described how the data is monitored?	CDM-MR-FORM Version 7.0 VCS Version 4.0	DR	This is stated in the Section 4.2 of the MR.	OK	OK
4.2.5. In the data/parameter tables provided under section 4.2 of the MR, for each data has the source of data been indicated (like logbooks, daily records, surveys, etc.)?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.2.6. In the data/parameter tables provided under section 4.2 of the MR, for each data has the monitored values of the monitoring parameter been indicated?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	These have been indicated but please see CAR-3.	CAR-3	OK
4.2.7. In the data/parameter tables provided under section 4.2 of the MR, for each data has the QA/QC procedures being applied been given?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	QA/QC procedures have been indicated in the Section 4.2 of the MR.	OK	OK
4.2.8. In the data/parameter tables provided under section 4.2 of the MR, for each data has the	CDM-MR-FORM Version 7.0	DR	Please correct the purpose of EGfacility,y parameter in the Section 4.2 of the MR.	CAR-22	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
purpose of data been given? •	VCS Std. Version 4.0				
4.2.9. If applicable, has the calculation method, including any equations, used to establish the data/parameter been given?	VCS Std. Version 4.0	DR	This is available in the Excel spreadsheet.	OK	OK
4.2.10. In the data/parameter tables provided under section 4.2 of the MR, for each data has it been indicated what types of equipment are used to monitor each parameter, including following, if applicable as per the monitoring plan?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see in below.	OK	OK
4.2.10.1. Details on accuracy class	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR, SV	a) Please include the meter test and calibration dates of the electricity meters b) Please provide the electricity meter change details, if any, in the Section 4.2 of the MR. c) Please provide electricity meter change protocols, if any. d) Please provide the photographic evidences of electricity meters. e) Please include the accuracy class information and serial numbers of the meters in the Section 4.2 of the MR. f) Please include the calibration frequency in the Section 4.2 of the MR. g) Please include the person/entity responsible for the calibration in the Section 4.2 of the MR. h) Please include any standards or protocols or regulation to be followed for the calibration of the meters in the Section 4.2 of the MR.	CAR-23	OK
4.2.10.2. The person/entity responsible for the measurement	VCS Std. Version 4.0	DR	Please see option g of CAR-23.	CAR-23	OK
4.2.10.3. Any standards or protocols to be followed	VCS Std. Version 4.0	DR	Please see option h of CAR-23.	CAR-23	OK
4.2.10.4. Calibration frequency	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see option f of CAR-23.	CAR-23	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.10.5. Serial number	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR, SV	Please see option e of CAR-23.	CAR-23	OK
4.2.10.6. Calibration date	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see option a of CAR-23.	CAR-23	OK
4.2.10.7. Validity of the calibration	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see option f of CAR-23.	CAR-23	OK
4.2.11. In the data/parameter tables provided under section 4.2 of the MR, for each data has the measurement and recording frequency been indicated?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see option f of CAR-23.	CAR-23	OK
4.2.12. Is the calibration frequency for measuring equipment specified in the monitoring methodology, in the applied standardized baselines or in the monitoring plan??	EB93 Report Annex 5 §368 VCS Std. Version 4.0	DR	Please see option f of CAR-23.	CAR-23	OK
4.2.13. If the calibration frequency for measuring equipment isn't specified in the monitoring methodology, guidance provided by the Board or the monitoring plan, are the equipment calibrated either in accordance with the specifications of the local/national standards, or as per the manufacturer's specification?	EB93 Report Annex 5 §373 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK
4.2.14. If neither local/national standards nor the manufacturer's specification are available, have the international standards been used?	EB93 Report Annex 5 §373 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK
4.2.15. Is the calibration of the measuring equipment that have an impact on the	EB93 Report Annex 5	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
claimed emission reductions conducted by the PPs at a frequency specified in the applied monitoring methodology and/or the monitoring plan?	§374 VCS Std. Version 4.0				
4.2.16. Has the calibration been delayed and has the calibration been implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period?	EB93 Report Annex 5 §369 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK
4.2.17. If the calibration is delayed and if the calibration is implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period, are one of the following approaches adopted by the PPs for the calculation of emission reductions?	EB93 Report Annex 5 §369 VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.17.1. Applying the maximum permissible error of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error; or	EB93 Report Annex 5 §369a VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.17.2. Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment.	EB93 Report Annex 5 §369b VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.18. If calibration is delayed and if the calibration is implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period, has the error been applied in following ways?	EB93 Report Annex 5 §370 VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.18.1. The adjusted measured values of the delayed calibration result in fewer claimed emission reductions?	EB93 Report Annex 5 §370a VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.18.2. For all measured values taken during the period between the scheduled date of calibration and the actual date of calibration?	EB93 Report Annex 5 §370b VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.19. If the results of the delayed calibration aren't available, have Pss calculated the emission reductions conservatively?	EB93 Report Annex 5 §371	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.20. If the results of the delayed calibration aren't available, have post registration requirements been followed by the PPs?	EB93 Report Annex 5 §372	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.21. Have any information about appropriate emission factors, IPCC default values and any other reference values that have been used in the calculation of emission reductions been given in detail in the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	N/A	OK	OK
4.2.22. If the data that are monitored been listed under section 4.2 using the tabular format, does the listed data include all the parameters used to calculate baseline, project and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0 EB93 Report Annex 4 §260	DR	EGfacility,y and $Cap_{pj,\,y}$ are the monitored parameters in line with the registered PD.	OK	OK
4.2.23. Is a complete set of data available for the specified monitoring period?	EB93 Report Annex 5 §376 VCS Std. Version 4.0	DR	EGfacility,y and $Cap_{pj,\,y}$ are the monitored parameters in line with the registered PD.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.3. Monitoring Plan					
4.3.1. Has a description of the monitoring system been provided under Section 4.3 of the MR?	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the monitoring system is available and in line with the registered PD but please include the number of employees in the Section 4.3 of the MR along with the relevant evidence.	CAR-24	OK
4.3.2. Has information about the data collection procedures, including following been provided under Section 4.3 of the MR?	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	Please see in below.	OK	OK
4.3.2.1. Information flow including data generation	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data generation is available and in line with the registered PD.	OK	OK
4.3.2.2. Data aggregation	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data aggregation is available and in line with the registered PD.	OK	OK
4.3.2.3. Data recording	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std.	DR	The details of the data recording is available and in line with the registered PD.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
	Version 4.0				

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.3.2.4. Data calculation	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data calculation (net electricity generation) is available and in line with the registered PD.	OK	OK
4.3.2.5. Data reporting	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data reporting is available and in line with the registered PD.	OK	OK
4.3.3. Has organizational structure, roles and responsibilities of personnel, and emergency procedures for the monitoring system been provided under section 4.3 of the MR?	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The brief information about the roles and responsibilities of each personnel (like project manager, engineers and technicians etc.) has been provided in the Section 4.3 of the MR.	OK	OK
4.3.4. Regarding to the management and operational system, are the responsibilities and authorities for monitoring and reporting in accordance with the responsibilities and authorities stated in the monitoring plan?	EB93 Report Annex 5 §364b-(iv) VCS Std. Version 4.0	DR	The brief information about the roles and responsibilities of each personnel (like project manager and technicians etc.) has been provided in the Section 4.3 of the MR.	OK	OK
4.3.5. Have quality assurance and quality control procedures been applied in accordance with the monitoring plan?	EB93 Report Annex 5 §364e VCS Std. Version 4.0	DR	These are in line with the registered PD.	OK	OK
4.3.6. Are the procedures for handling internal auditing and non-conformities described?	VCS Std. Version 4.0	DR	Please include the procedures, if any, for handling internal auditing and non-conformities described in the Section 4.3 of the MR.	CAR-25	
4.3.7. Where appropriate, are the line diagrams to display the GHG data collection and management system included?	VCS Std. Version 4.0	DR	N/A (This is explained without any diagram).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
4.3.8. If the sampling approaches used in the monitoring plan, has the following been included?	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.1. target precision levels	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.2. sample sizes	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.3. sample site locations	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.4. stratification	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.5. frequency of measurement and	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.6. QA/QC procedures	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.7. Demonstration on whether the required confidence/precision has been met.	CDM-MR-FORM Version 7.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.9. Have the monitoring plan and the applied methodology been properly implemented and followed by the PPs?	EB93 Report Annex 5 §364a VCS Std. Version 4.0	DR	The monitoring system is available and in line with the registered PD.	OK	OK
4.3.10. Has the monitoring of parameters (baseline / project / leakage / emission reduction) in the project activity been implemented in accordance with the monitoring plan contained in the registered PD or any accepted revised monitoring plan?	EB93 Report Annex 5 §364b-(i)-(ii)-(iii) VCS Std. Version 4.0	DR	The monitoring system is available and in line with the registered PD.	OK	OK
4.3.11. Have all parameters stated in the monitoring plan, the applied methodology and relevant VCS requirements been sufficiently monitored and updated as applicable?	EB93 Report Annex 5 §364b VCS Std. Version 4.0	DR	The monitoring system is available and in line with the registered PD.	OK	OK
4.3.12. Are monitoring results consistently recorded and stored as per the approved frequency?	EB93 Report Annex 5 §364d VCS Std.	DR	The monitoring system is available and in line with the registered PD.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
	Version 4.0				

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
5. **QUANTIFICATION of GHG EMISSION REDUCTIONS and REMOVALS**					
5.1. **Baseline Emissions**					
5.1.1. Has all the formulae used to calculate the baseline emissions been provided under section 5.1 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	a) Please correct the monitoring period end date considering the maximum monitoring period duration. b) Please include the vintage based comparison of expected and achieved ER values in the MR and Excel spreadsheet. c) Please include the net electricity generation and achieved ER values including the comparison results with the expected values under Section 1.1 of the MR. d) Please correct the ER value and net electricity generation in the Excel spreadsheet and throughout the MR considering above corrections. e) Please clarify the gap between the initial verification and second verification of the project activity since the initial verification is completed in 2013 including the ongoing financial need of the project activity in terms of additionality.	CAR-26	OK
5.1.2. Has sample calculations for all formulae used and calculation of baseline emissions or baseline net GHG removals by sinks, applying actual values been provided under section 5.1 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available in the Excel spreadsheet calculation but please see CAR-26.	CAR-26	OK
5.1.3. Has all electronic spread sheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM Version 7.0	DR	This is available in the Excel spreadsheet calculation.	OK	OK
5.1.4. Have any assumptions used in baseline emission calculations been justified?	EB93 Report Annex 5 §376d VCS Std. Version 4.0	DR	N/A (There haven't been any assumptions used).	OK	OK
5.1.5. If applicable, are the appropriate emission factors used for the baseline emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e VCS Std. Version 4.0	DR	N/A (The grid emission factor has been calculated and determined during the validation process).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
5.2. **Project Emissions**					
5.2.1. Has all the formulae used to calculate the project emissions been provided under section 5.2 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please include the justification for why project emissions are taken as zero in the Section 5.2 of the MR.	CAR-27	OK
5.2.2. Has sample calculations for all formulae used and calculation of project emissions or or actual net GHG removals by sinks, applying actual values been provided under section 5.2 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available in the Excel spreadsheet calculation.	OK	OK
5.2.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM Version 7.0	DR	This is available in the Excel spreadsheet calculation.	OK	OK
5.2.4. Have any assumptions used in project emission calculations been justified?	EB93 Report Annex 5 §376d VCS Std. Version 4.0	DR	N/A (There haven't been any assumptions used).	OK	OK
5.2.5. If applicable, are the appropriate emission factors used for the project emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e VCS Std. Version 4.0	DR	N/A (The grid emission factor has been calculated and determined during the validation process).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
5.3. **Leakage**					
5.3.1. Has all the formulae used to calculate the leakage emissions been provided under section 5.3 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please include the justification for why leakage is taken as zero in the Section 5.3 of the MR.	CAR-28	OK
5.3.2. Has sample calculations for all formulae used and calculation of leakage emissions, applying actual values been provided under section 5.3 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available in the Excel spreadsheet calculation.	OK	OK
5.3.3. Has all electronic spread sheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM Version 7.0	DR	This is available in the Excel spreadsheet calculation.	OK	OK
5.3.4. Have any assumptions used in leakage emission calculations been justified?	EB93 Report Annex 5 §376d VCS Std. Version 4.0	DR	N/A (There haven't been any assumptions used).	OK	OK
5.3.5. If applicable, are the appropriate emission factors used for the leakage emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e VCS Std. Version 4.0	DR	N/A (The grid emission factor has been calculated and determined during the validation process).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
5.4. Net GHG Emission Reductions and Removals					
5.4.1. Have the total baseline emissions or baseline net GHG removals by sinks during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-26.	CAR-26	OK
5.4.2. Has the total project emissions or actual net GHG removals by sinks during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available in the Section 5.4 of the MR.	OK	OK
5.4.3. Has the total leakage emissions during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available in the Section 5.4 of the MR.	OK	OK
5.4.4. Have the total emission reductions or net anthropogenic GHG removals by sinks during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-26.	CAR-26	OK
5.4.5. If there is material information that can cause overestimation of emission reductions or removals of the project activity, is this equal to higher than one of the following?	EB93 Report Annex 5 §329	DR	There hasn’t been any material information detected.	OK	OK
5.4.5.1. 0.5 per cent of the emission reductions or removals for project activities achieving a total emission reduction or removal of equal to or more than 500,000 tons of carbon dioxide equivalent per year?	EB93 Report Annex 5 §329a	DR	There hasn’t been any material information detected.	OK	OK
5.4.5.2. 1 per cent of the emission reductions or removals for project activities achieving a total emission reduction or removal between 300,000 and 500,000 tons of carbon dioxide	EB93 Report Annex 5 §329b	DR	There hasn’t been any material information detected.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
equivalent per year?					
5.4.5.3. 2 per cent of the emission reductions or removals for large-scale project activities achieving a total emission reduction or removal of 300,000 tons of carbon dioxide equivalent per year or less?	EB93 Report Annex 5 §329c	DR	There hasn't been any material information detected.	OK	OK
5.4.5.4. 10 per cent of the emission reductions or removals for the microscale project activities?	EB93 Report Annex 5 §329d	DR	There hasn't been any material information detected.	OK	OK
5.4.5.5. 5 per cent of the emission reductions or removals for small-scale project activities other than project activities covered under 5.4.5.4 above?	EB93 Report Annex 5 §329e	DR	There hasn't been any material information detected.	OK	OK
6. APPENDICES					
6.1. If any further background information regarding any raw data from monitoring is provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 4.0	DR	N/A (There hasn't been any appendices provided in the MR).	OK	OK
6.2. If any further background information regarding additional information used in the monitoring plan is provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 4.0	DR	N/A (There hasn't been any appendices provided in the MR).	OK	OK
6.3. If any further background information regarding documentation of activities conducted from the monitoring plan and diagrams are provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 4.0	DR	N/A (There hasn't been any appendices provided in the MR).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification*	Findings, comments, references and document sources	Draft opinion	Final opinion
7. OTHER REQUIREMENTS					
7.1. Forward Action Requests (FARs) Identified During Validation and/or Previous Verification					
7.1.1. Is there any remaining FARs from the validation and/or previous verification activities?	EB93 Report Annex 5 §38 §349	DR	There hasn't been any FAR issued by the relevant VVB during the initial verification process in line with the provided initial verification report.	OK	OK
7.1.2. If there any remaining FARs from the validation and/or previous verification activities, have the PPs addressed these FARs in the MR?	EB93 Report Annex 5 §38 §349	DR	There hasn't been any FAR issued by the relevant VVB during the initial verification process in line with the provided initial verification report.	OK	OK
7.1.3. Has the FARs been resolved?	EB93 Report Annex 5 §38 §349 §347d	DR	There hasn't been any FAR issued by the relevant VVB during the initial verification process in line with the provided initial verification report.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
CAR-1 Please include the project name in line with VCS registry and registered PD.	2.1	The name of the project has been revised as it is stated on https://registry.verra.org/app/projectDetail/VCS/1174 Response to Review-1: The name of the project has been revised throughout MR.	Review-1: Please include the project name in line with VCS registry and registered PD throughout the MR. Review-2: Ok Closed (MR has been revised accordingly).
CAR-2 Please include the report ID of the document in the cover page of the MR.	2.3	Version and Report ID revised. Response to Review-1: The report ID is revised as 01.	Review-1: Report ID has been included as 02 but the MR version shall be 01 in the initial version of MR. Review-2: Ok Closed (MR version has been corrected).
CAR-3 Please correct the monitoring period end date considering the maximum monitoring period duration.	2.6	First crediting period ends on 13/08/2019 and the second crediting period starts on 14/08/2019 (re-validation procedure is still ongoing). Therefore, we cannot extend the monitoring period from 13/08/2019. Response to Review – 1: Monitoring period is approved by VCS.	Review-1: Please correct the monitoring period end date considering the maximum monitoring period duration. Review-2: Ok Closed (The exemption letter by VCS and dated as 17/08/2021 has been provided).
CAR-4 This is available as GTE but please include the complete company name in the cover page of the MR.	2.7	Name has been revised on cover page. Response to Review-1: GTE name revised throughout MR.	Review-1: Please include the GTE company name consistently and fully throughout the MR. Review-2: Ok Closed (MR has been revised accordingly).
CAR-5 a) The brief summary is available but please include the	1.1.1	a) Estimated and achieved amounts have been added to Section 1.1.	Review-1: a) The net electricity generation and

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
net electricity generation and achieved ER values including the comparison results with the expected values under Section 1.1 of the MR. b) Please indicate the installed capacity of the project as both MWm and MWe under Section 1.1 of the MR.		b) Installed capacity revised in Section 1.1. Response to Review – 1: a) Monitoring period is approved by VCS.	achieved ER values including the comparison results with the values have been provided under Section 1.1 of the MR but please correct the monitoring period end date considering the maximum monitoring period duration and please revise the relevant calculations accordingly. b) Ok Closed (Section 1.1 of the MR has been revised accordingly). Review-2: Ok Closed (The exemption letter by VCS and dated as 17/08/2021 has been provided).
CAR-6 Please include the purpose of the project activity under Section 1.1 of the MR.	1.1.2	Purpose of the project activity has been added to Section 1.1.	Review-1: Ok Closed (Section 1.1 of the MR has been revised and the purpose of the project activity has been included).
CAR-7 a) Please provide the brief description of the installed technology and equipment including turbine models, serial numbers and their brief specifications in the Section 1.1 of the MR and please also provide the reference documents and turbine name plates. b) Please clarify whether there is any dam within the context of the project activity in the Section 1.1 of the MR.	1.1.3	a) It is added under Section 1.1. Ref docs provided. b) In Section 1.1. it is already stated that the project is runoff river type hydropower plant. There is no dam. Response to Review-1: The clarification has been added to Section1.1.	Review-1: a) Ok Closed (The brief description of the installed technology and equipment including turbine models, serial numbers and their brief specifications have been included in the Section 1.1 of the MR and the turbine nameplates and provisional acceptance protocols have been provided as the reference documents). b) Please clarify specifically whether there is any dam within the context of the project activity in the Section 1.1 of the MR. Review-2: c) Ok Closed (Section 1.1 of the MR has been revised accordingly).
CAR-8 Please include the comparison of achieved ER results with	1.1.5	Comparison for ER and EG have been added to the excel sheet.	Review-1: The comparison has been provided but

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
the expected values in the ER Calculation Excel spreadsheet.		Response to Review – 1: Monitoring period is approved by VCS.	please but please correct the monitoring period end date considering the maximum monitoring period duration and please revise the relevant calculations accordingly. Review-2: Ok Closed (The exemption letter by VCS and dated as 17/08/2021 has been provided).
CAR-9 a) Please use the table format available in the Section 1.3 of the MR template. b) Please clarify if the project proponent is the same with the registered PD. c) Please clarify the reference to Vietnam in the project proponent information of project's VCS registry link.	1.3.1	a) Tables revised. b) Project owner is the same but the consultant has been changed as GTE. c) The registry page has incorrect information. There is no relation between Vietnam and project implementation. Response to Review-1: b)GTE name has been corrected throughout MR. c) It will be renewed during revalidation period.	Review-1: a) Ok Closed (Section 1.3 of the MR has been revised accordingly). b) Please include the GTE company name consistently and fully throughout the MR. c) Please correct the reference to Vietnam in the project proponent information of project's VCS registry link. Review-2: b) Ok Closed (MR has been revised accordingly). c) Please see FAR-1.
CAR-10 Please indicate the total crediting period including the day, month and year for the start and end dates and the total number of years and crediting period type.	1.6.1	Section 1.6. of the MR revised. Response to Review -1: Crediting period info revised.	Review-1: Please include the crediting period type in the Section 1.6 of the MR. Review-2: Ok Closed (Section 1.6 of the MR has been revised accordingly).
CAR-11 Please include the reference document information for all provided coordinates considering the current status of the project in Section 1.7 of the MR.	1.7.1	Coordinates are revised according to the feasibility report. Report provided.	Review-1: Ok Closed (Section 1.7 of the MR has been revised and the feasibility report has been provided as a reference document).
CAR-12 a) Please clarify if the project has been registered or seeking registration under other GHG programs in the Section 1.9 of the MR. b) The signed and sealed letter on company letterhead	1.9.1	a) An explanation is added to Section 1.9. b) Provided.	Review-1: a) Ok Closed (Section 1.9 of the MR has been revised accordingly). b) Ok Closed (The signed and sealed letter

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
confirming about the project hasn't been registered, or hasn't been seeking registration under any other GHG programs hasn't been provided.			by PP has been provided).
CAR-13 a) Please clarify if the project has created another form of credit (e.g. renewable energy certificates) in the Section 1.10 of the MR. b) The signed and sealed letter on company letterhead confirming about the project hasn't been created other forms of credit (e.g. renewable b)Penergy certificates) hasn't been provided.	1.10.1	a)It is already stated. b)Provided.	Review-1: a) Ok Closed (Section 1.10 of the MR has been revised accordingly). b) Ok Closed (The signed and sealed letter by PP has been provided).
CAR-14 a) Please clearly explain the contribution of the project to each relevant SDG in the Section 1.11 of the MR. b) Please include the actual results of the contributed sustainable development indicators by the project during the monitoring period in the Section 1.11 of the MR.	1.11.1	a) Contribution to SDGs added to Section 1.11. b) The contributions are quantified. Response to Review – 1: Monitoring period is approved by VCS.	Review-1: a) b) The contribution of the project to each relevant SDG has been included in the Section 1.11 of the MR but please correct the monitoring period end date considering the maximum monitoring period duration and please revise the relevant values accordingly. Review-2: a) b) Ok Closed (The exemption letter by VCS and dated as 17/08/2021 has been provided).
CAR-15 a) Please explain if there is any potential negative environmental and socio-economic impacts along with the relevant justification in the Section 2.1 of the MR. b) Please provide the following records: - Waste water storage tank photographic evidences - Hazardous and domestic waste storage area photographic evidences - Official hazardous waste transfer and disposal records - Waste water transfer and disposal records - Fish passage photographic evidences, if any, along with	2.1.1	a) Section 2.1 revised. b) - Tank photo provided. - Photos provided. - Waste record for 2020 provided. - There is no record for the domestic waste transfer and disposal. Municipality collects all domestic wastes periodically. - Akçay HEPP does not include regulator etc. within its structure. It is located at the end of the 48 km long irrigation canal through which water is directed from the Kemer Dam and Kemer Regulator under DSI control.	Review-1: a) Please also include details about the waste management practices and EIA process in the Section 2.1 of the MR. b) - Ok Closed (The photographic evidence of waste water storage tank has been provided). - Ok Closed (Hazardous and domestic waste storage area photographic evidences have been provided). - Ok Closed (Hazardous waste declaration form for 2020 has been

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
the design documents - Life line water official records signed by State Hydraulic Works -The noise assessment report, if any		Fish passes are a system applied in regulator structures, not in power plants. Therefore, there is no fish passage within the context of the project. - For the reason explained above, life water control is made by DSI from Kemer Regulator. All of the water that is discharged to the canal by DSI and delivered to Akçay HEPP is already left to the bed. There is no water in the canal that can be left in periods when there is no water came from the Kemer Regulator. - Noise report shared. Response to Review-1: a) Relevant info has been added to Section 2.1. b) - There is no such a monitoring parameter in the monitoring plan. Yet, the way of disposal of both wastewater and solid waste have been explained in Section 2.1. - Relevant info about fish passage has been provided in Section 2.1. An explanation about lifeline water has been added to Section 2.1.	provided). - Please provide the waste water transfer and disposal records for the monitoring period. - Please provide the signed letter about the domestic waste transfer and disposal. - There hasn't been any fish passage in line with in line with the information by PP but please include the same information in the Section 2.1 of the MR. - Please include the same explanation with regards to the life line water in the Section 2.1 of the MR. - Ok Closed (The personal noise exposure report dated as 26/02/2015 has been provided). Review-2: a) Ok Closed (Section 2.1 of the MR has been revised accordingly. Besides that, EIA not necessary decision dated as 17/09/2012 has been provided). b) - Ok Closed (The waste water transfer and disposal record dated as 02/02/2021 has been provided). - Ok Closed (The signed letter about the domestic waste management process and dated as 31/05/2021 has been provided). - Ok Closed (Section 2.1 of the MR has been revised accordingly).
CAR-16 Please explain clearly the procedures or methods used for engaging local stakeholders (e.g. dates of announcements or meetings, periods during which input was sought) in the	2.2.1.1	Added. Response to Review-1: All information is provided already in the Section 2.2.	Review-1: Please also include the details about the communication with the local stakeholders (e.g. dates of announcements or meetings,

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
Section 2.2 of the MR.			periods during which input was sought) during the whole monitoring period in the Section 2.2 of the MR in addition to the online verification site visit. Review-2: Ok Closed (Section 2.2 of the MR has been revised accordingly and the methods for engaging the local stakeholders during the monitoring period have been included).
CAR-17 Please explain clearly the procedures or methods used for documenting the outcomes of the local stakeholder communication in the Section 2.2 of the MR.	2.2.1.2	Added. Response to Review-1: All information is provided already in the Section 2.2.	Review-1: Please also include the details about the communication with the local stakeholders (e.g. dates of announcements or meetings, periods during which input was sought) during the whole monitoring period in the Section 2.2 of the MR in addition to the online verification site visit. Review-2: Ok Closed (It has been confirmed in the Section 2.2 of the MR that there hasn't been any complaint during the monitoring period and there hasn't been any complaint by the interviewed local stakeholders during the online verification site visit).
CAR-18 a) Please clarify whether there is complaint received during the current monitoring period in the Section 2.2 of the MR. b) Please provide the signed document about the contact details of the PP relevant staff in case of any complaint by Osmaniye village and whether there is any complaint received by the Muhktar from the local stakeholders. c) Please include the current status of the ongoing communication with the local stakeholders instead of the sentences like expected or will be conducted etc.	2.2.1.3	a) There is no grievance received in this MP. An explanation is added to Section 2.2. b) There is no complaint received so far. As mentioned before, people prefer face-to-face communication. They can call Mukhtar in case of any comment/grievance. c) Current status is mentioned. d) Please see Section 2.2. Response to Review-1: a) An explanation is added to Section 2.2. b) The locals and project owner has quite good face to face communication and there is no comment book left	Review-1: a) Please clarify explicitly whether there is complaint received during the current monitoring period in the Section 2.2 of the MR. b) Please provide the signed document about the contact details of the PP relevant staff in case of any complaint by Osmaniye village and whether there is any complaint received by the Muhktar from the local stakeholders. c) d) Ok Closed (Section 2.2 of the MR has

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
d) Please include all local stakeholder communication details associated with the current monitoring period in the Section 2.2 of the MR.		to the mukhtar. Project owner is easily accessible by locals.	been revised accordingly). Review-2: a) Ok Closed (It has been confirmed in the Section 2.2 of the MR that there hasn't been any complaint during the monitoring period and there hasn't been any complaint by the interviewed local stakeholders during the online verification site visit). b) Ok Closed (The signed letter by PP dated as 31/05/2021 about the contact details of PP relevant staff in case of any complaint has been provided. It has also been confirmed in the Section 2.2 of the MR that there hasn't been any complaint during the monitoring period).
CAR-19 Please clarify in the Section 2.2 of the MR whether there are any updates to the project design or please justify why updates are not appropriate.	2.2.1.5	There is no update or design change related to the project.	Review-1: Ok Closed (Section 2.2 of the MR has been revised and it is confirmed that there is no update to the project design).
CAR-20 Please clarify in the Section 3.1 of the MR whether there are any changes with respect to other entities involved in the project comparing with the registered project.	3.1.9	Project consultant has been changed from GAIA to GTE. An explanation has been added. Response to Review-1: a) Clarified in Section 3.1. b)GTE name has been revised throughout MR.	Review-1: a) Please clarify the role of GTE Karbon whether it is PP or consultant in the MR. b) Please include the GTE company name consistently and fully throughout the MR. Review-2: a) b) Ok Closed (MR has been revised accordingly).
CAR-21 a) Please delete the unnecessary section numbers like 3.1 and 3.2 under the Section 3.2 of the MR. b) Please also clarify in the Section 3.2.2 of the MR whether there are any changes with respect to the other entities involved in the project comparing with the registered project.	3.2.2.1	a) The numbers are correct. b) The same explanation is added (as 3.1.9) Response to Review-1: b) GTE name has been revised throughout MR. Timing is also mentioned.	Review-1: a) Ok Closed (Section numbers have been revised). b) - Please include the GTE company name consistently and fully throughout the MR. - Please clarify the timing of mentioned change in the Section

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			3.2.2 of the MR. Review-2: Ok Closed (Section 3.2.2 of the MR has been revised accordingly).
CAR-22 Please correct the purpose of Egfacility,y parameter in the Section 4.2 of the MR.	4.2.8	We do not understand what is wrong with the purpose. Response to Review-1: Added.	Review-1: Please clarify the purpose of the mentioned parameter (whether it is for baseline emissions, project emissions etc.) in the Section 4.2 of the MR. Review-2: Ok Closed (Section 4.2 of the MR has been revised accordingly).
CAR-23 a) Please include the meter test and calibration dates of the electricity meters. b) Please provide the electricity meter change details, if any, in the Section 4.2 of the MR. c) Please provide electricity meter change protocols, if any. d) Please provide the photographic evidences of electricity meters. e) Please include the accuracy class information and serial numbers of the meters in the Section 4.2 of the MR. f) Please include the calibration frequency in the Section 4.2 of the MR. g) Please include the person/entity responsible for the calibration in the Section 4.2 of the MR. h) Please include any standards or protocols or regulation to be followed for the calibration of the meters in the Section 4.2 of the MR.	4.2.10.1	All of them provided in Section 4.2 and 4.3. Meter photos shared. Response to Review – 1: a) Provided. b) Provided. e) All meters are C(0.5s). Revised. f) h) The link is given as footnote 3 in the MR (Ölçü ve Ölçü Aletleri Muayene Yönetmeliği Madde 9)	Review-1: a) - Please provide the other meter test protocols for the monitoring period. - Please include the same details in the Section 4.2 of the MR. b) The electricity meter change details have been provided in the Section 4.2 of the MR but please also include the changed meter details in the Section 4.2 of the MR. c) Ok Closed (The meter change protocol dated as 20/05/2020 has been provided). d) Ok Closed (The photographic evidences of currently available electricity meters have been provided). e) Please correct the accuracy class information of the meters in line with the provided meter test protocols. f) Please provide the relevant reference for the mentioned calibration frequency in the Section 4.2 of the MR. g) Ok Closed (TEIAS as the entity responsible for the calibration has been

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
			provided in the Section 4.2 of the MR). h) Please include any specific standards or protocols or regulation to be followed for the calibration of the meters in the Section 4.2 of the MR. Review-2: a) Ok Closed (The meter test Protocol dated as 20/05/2020 for the currently available meters has been provided. Section 4.3 of the MR has been revised accordingly). b) Ok Closed (Section 4.3 of the MR has been revised accordingly). e) Ok Closed (The accuracy class information of the meters has been corrected in the Section 4.3 of the MR). f) h) Ok Closed (Section 4.2 of the MR has been revised and the reference source has been included).
CAR-24 The details of the monitoring system is available and in line with the registered PD but please include the number of employees in the Section 4.3 of the MR along with the relevant evidence.	4.3.1	13 people have been employed. The statement is added to Section 4.3. SGK records are provided.	Review-1: Ok Closed (Section 4.3 of the MR has been revised accordingly).
CAR-25 Please include the procedures, if any, for handling internal auditing and non-conformities described in the Section 4.3 of the MR.	4.3.6	None Response to Review – 1: For internal auditing, TEIAS is in charge. Project owner is not responsible for any audit related to electricity meters, etc. In case of any problem with them, teams from TEIAS handle the issue.	Review-1: Please include the procedures, if any, for handling internal auditing and non-conformities described or the justification about non-availability of such procedures in the Section 4.3 of the MR. Review-2: Ok Closed (Section 4.3 of the MR has been revised accordingly).
CAR-26 a) Please correct the monitoring period end date	5.1.1	a) First crediting period ends on 13/08/2019 and the second crediting period starts on 14/08/2019 (re-	Review-1: a) Please correct the monitoring period end

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
considering the maximum monitoring period duration. b) Please include the vintage based comparison of expected and achieved ER values in the MR and Excel spreadsheet. c) Please include the net electricity generation and achieved ER values including the comparison results with the expected values under Section 1.1 of the MR. d) Please correct the ER value and net electricity generation in the Excel spreadsheet and throughout the MR considering above corrections. e) Please clarify the gap between the initial verification and second verification of the project activity since the initial verification is completed in 2013 including the ongoing financial need of the project activity in terms of additionality.		validation procedure is still ongoing). Therefore, we cannot extend the monitoring period from 13/08/2019. b) Comparison has been added to Section 5.4. Excel also revised. c) Added to Section 1.1. d) Done e) The crediting period of the project is determined as 10 years according to the VSC rules. The same rule also accepts ex-ante calculations as valid for 10 years. Response to Review – 1: a-b-c-d) Monitoring period is approved by VCS. e) The electricity generation in hydropower plants are quite dependable to the natural and climatic conditions. As can be seen from the calculations, the project has generated 22% less electricity than expected. Therefore, the project owner needs the revenue obtained from this VCS project.	date considering the maximum monitoring period duration. b) The comparison has been provided but please but please correct the monitoring period end date considering the maximum monitoring period duration and please revise the relevant calculations accordingly. c) The net electricity generation and achieved ER values have been provided under Section 1.1 of the MR but please correct the monitoring period end date considering the maximum monitoring period duration. d) Please correct the ER value and net electricity generation in the Excel spreadsheet and throughout the MR considering above corrections. e) Please clarify the gap between the initial verification and second verification of the project activity since the initial verification is completed in 2013 including the ongoing financial need of the project activity in terms of additionality along with the relevant justification. Review-2: a) b) c) d) Ok Closed (The exemption letter by VCS and dated as 17/08/2021 has been provided). e) Ok Closed (The provided explanation is deemed as acceptable).
CAR-27 Please include the justification for why project emissions are taken as zero in the Section 5.2 of the MR.	5.2.1	The approved PD takes project emissions as zero. Please see the explanation on page 26 of PD. "ACM0002 Version 10 suggests that project proponents shall account for CH_4 and CO_2 emissions for the reservoir. Although the project does not have a reservoir and result in only a small lake which is attached to the	Review-1: Please include the same explanation and justification in the Section 5.2 of the MR. Review-2: Ok Closed (Section 5.2 of the MR has been

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
		regulator of the facility, the proposed calculations were run to prove the fact that the project's emissions can be assumed "0". Response to Review-1: Added.	revised accordingly).
CAR-28 Please include the justification for why leakage is taken as zero in the Section 5.3 of the MR.	5.3.1	The approved PD takes project emissions as zero. Please see the explanation on page 13 of PD. "Potential leakage emissions in the context of power sector projects are emissions that arise from the project activities such as power plant construction, fuel handling and land inundation. According to ACM0002 / Version 10, such emissions do not need to be taken into account." Response to Review-1: Added.	Review-1: Please include the same explanation and justification in the Section 5.3 of the MR. Review-2: Ok Closed (Section 5.3 of the MR has been revised accordingly).
CAR-29 (Issued at ITR stage) a) Please correct the cell M80 in the ER sheet. b) Please clarify the reason for the August 2019 value being multiplied by 13/31 for apportioning. c) Please clarify the reason with the relevant explanation and evidence for the significantly higher ER value for 2015.	5.1.1	a) Excel sheet has been corrected as to include from M3 to M78. b) Because the monitoring period ends on 13/08/2019. EPİAŞ record is represented as the sum of August month. Therefore, we have to make a correlation. c) As confirmed by the project owner and also meteorological data, the precipitation was higher than the average in 2015 (Please see Figure 17, http://212.174.109.9/FILES/arastirma/yagis-degerlendirme/2015-2016alansal.pdf) The HEPPs are affected such conditions dramatically.	Review-1: a) Ok Closed (Excel spreadsheet has been revised accordingly). b) Ok Closed (The approach is conservative). c) Ok Closed (Section 1.1 of the MR has been revised accordingly along with the relevant reference link).
CAR-30 (Issued at ITR stage) Please include the meter test details for 2013.	4.2.10.1	Please see Section 4.3.	Review-1: Ok Closed (Section 4.3 of the MR has been revised accordingly).
CL-1 This has been indicated as Scope 1: "Energy Industry – Renewable/Non-renewable Sources" but please clarify the small scale reference in the Section 1.2 of the MR.	1.2.2	It is corrected.	Review-1: Ok Closed (Section 1.2 of the MR has been revised accordingly).
CL-2	1.4.1	Yes, it is. Section 1.3 also has GTE's info.	Review-1:

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
Please clarify if the GTE Karbon is project proponent in this project.		Response to Review-1: a)GTE name has been revised throughout MR. b) It is clarified in Section 3.1.	a) Please include the GTE company name consistently and fully throughout the MR. b) Please clarify explicitly in the MR whether GTE Karbon is project proponent or other entity involved in the project. Review-2: a) b) Ok Closed (MR has been revised accordingly).
CL-3 All data that is determined only once for the crediting period but are used after registration of the project, has been listed under Section 4.1 of the MR but please clarify the validity of the grid emission factor during which crediting period in the comments row.	4.1.1	Crediting period dates are added.	Review-1: Ok Closed (The initial crediting period dates have been included and Section 4.1 of the MR has been revised accordingly).
FAR-1 The reference to Vietnam in the project proponent information of project's VCS registry link shall be revised for the next verification period.	1.3.1	Review-1: It will be completed during the next verification period.	Review-1: This shall be checked during the next verification period.

* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

ANNEX 2: VERIFICATION TEAM AND ITR COMPETENCE

Anıl SÖYLER, Bsc. in Environmental Engineering, has completed his Bachelor degree in Middle East Technical University, Turkey. His Master study in the same field is at thesis stage and has totally 15 years of professional experience in environmental management, monitoring and auditing, waste and waste water management, environmental and social impact assessment, GHG emission report and projects' validation and verification, environmental reports, and quality management systems. He has been involved in both national and international projects supported by IFC and World Bank. He has been working as Certification Manager in the context of Re Carbon.

Sandeep KANDA holds a degree in Mechanical Engineering, Masters in Energy systems engineering from Indian Institute of Technology – Bombay and Post Graduate Diploma in Industrial Safety & Environmental Management from National Institute of Industrial Engineering in India. He has more than ten years of work experience with auditing and consultancy firms, seven years thereof with Designated Operational Entities under the CDM. He is experienced working on diversified areas of energy and environmental management, including policies, Clean Development Mechanism (CDM), Corporate Sustainability Reporting (CSR) Audits, energy audits, utility audits and product development. As CDM auditor and technical reviewer for TÜV Süd, he has audited more than 30 CDM projects as technical reviewer; 40 projects as lead auditor and 7 PoAs in various capacities; covering a broad range of sectoral scopes, such as Energy industries (renewable - / non-renewable sources), Energy distribution, Energy demand, Manufacturing industries, Chemical industries, Transport, Metal production, Waste handling & disposal and Agriculture. He has been working as a contracted team leader, technical reviewer, TA 1.1 and renewable energy expert in the context of Re Carbon.

Annex 2-1: Appointment Certificates

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Prof. Dr. Aziz Sancar Cad. 27/6 TR / 06890 Çankaya-Ankara Tel.: 0090-312-287 5122 Fax: 0090-312-287 3373	**Certificate of Appointment**	re-carbon
	Carbon Division	Page: 1/1

This Certificate of Appointment is given to **Mr. Anıl SÖYLER** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	**Verifier**	**Team leader**	**Technical reviewer**	**Technical Expert**
08-02-2021	08-02-2021	N/A	N/A	08-02-2021

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	**Verifier**	**Team leader**	**Technical reviewer**	**Technical Expert**
08-02-2021	08-02-2021	08-02-2021	N/A	08-02-2021

Speciality	Regional (Country) expertise	Financial expertise	Technical area
N/A	Turkey	N/A	1.2 and 13.1

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated and there is no defined validity period for this Certificate.

However, The Certificate may be updated, suspended or cancelled at any time, as a result of the performance assessments and/or other reasons as defined above.

APPOINTMENT IS GRANTED BY			
Mr. Christian JOHANNES	General Manager	08-02-2021	
Name	**Position**	**Date**	**Signature**

F.C.053 / 02.06.2021 - 02

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti.
Prof. Dr. Aziz Sancar Cad. 27/8
TR / 06690 Çankaya-Ankara
Tel : 0090-312-287 5122
Fax: 0090-312-287 3373

Certificate of Appointment

re-carbon

Carbon Division

Page: 1/1

This Certificate of Appointment is given to **Mr. Sandeep KANDA** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
08-02-2021	08-02-2021	08-02-2021	08-02-2021	08-02-2021

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
08-02-2021	08-02-2021	08-02-2021	08-02-2021	08-02-2021

Speciality	Regional (Country) expertise	Financial expertise	Technical area
N/A	India, Vietnam, Nepal and Turkey	N/A	1.1, 1.2, 2.1, 3.1, 4.1, 9.1, 9.2, 13.1, 13.2 & 15.1

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated and there is no defined validity period for this Certificate.

However, The Certificate may be updated, suspended or cancelled at any time, as a result of the performance assessments and/or other reasons as defined above.

APPOINTMENT IS GRANTED BY			
Mr. Anil SÖYLER	Certification Manager	08-02-2021	
Name	Position	Date	Signature

F-C/03 / 21.02.2021 - 01