
VERIFICATION AND CERTIFICATION REPORT

GALATA WIND ENERJİ A.Ş.

ÇORUM SOLAR POWER PLANT
PROJECT

IN

TURKEY

MONITORING PERIOD:

From 01/03/2022 – 18/12/2022 (both days included)

Organizational Unit:	Re Carbon Ltd.		
Project Title:	ÇORUM SOLAR POWER PLANT PROJECT		
Project Number:	Client:	Current MR Version:	
1092	GALATA WIND ENERJİ A.Ş.	0.4	
Date of First Issue:	Date of Current Version:	Version Number:	Number of Pages:
05/08/2023	20/10/2023	05	77
Verification Number:	Registration Number:	Monitoring Period:	
03	GS6566	From: 01/03/2022	To: 18/12/2022
Summary:			
Host Country: Turkey			
Project is Reviewed Against:			
☒ Kyoto Protocol ☒ UNFCCC CDM rules and regulations and associated documents ☒ Gold Standard rules and regulations ☐ Other (Please Specify)			
Methodology: AMS-ID Version: 18			
Verified Emissions Reductions: 6,524 tCO ₂ e			
Project Size: ☐ Large Scale ☒ Small Scale ☐ Micro Scale			
Project Developers:	GALATA WIND ENERJİ A.Ş.		
Verification Stages:			
☒ Desk Review ☒ Site Visit ☒ Follow-up Interviews ☒ Resolution of Outstanding Issues			
Verification Findings:			
During the verification 012 Corrective Action Requests and 00 Clarification Requests were issued, all of which were closed out before the issuance of this verification report. No Forward Action Requests were issued during the verification, all of which shall be addressed during the next verification of the project activity. In summary, it is Re Carbon Ltd.'s opinion that the project activity "ÇORUM SOLAR POWER PLANT PROJECT" in Turkey, is in compliance with the monitoring plan described in the registered PDD, version 05 and dated 21/01/2019. The GHG emission reductions are calculated correctly as per the applied methodology and the emission reductions given in the monitoring report version 0.4 dated 18/10/2023 are fairly stated.			
Verification Team Leader:	Mrs. Fikriye Seda ATABEK	Indexing Terms:	
Verification Team Members:		☒ No distribution without permission of the client or responsible organizational unit ☐ Limited Distribution	
Approved By	Name:	Signature:	

(Technical Reviewer):	Mr. Anil SÖYLER		☐ Unrestricted Distribution
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Abbreviations

CAR	: Corrective Action Request
CDM	: Clean Development Mechanism
CEF	: Carbon Emission Factor
CER	: Certified Emission Reduction(s)
CL	: Clarification request
CO₂	: Carbon dioxide
CO₂e	: Carbon dioxide equivalent
DNA	: Designated National Authority
DOE	: Designated Operational Entity
DR	: Document Review
EF	: Emission Factor
ER	: Emission Reductions
ERPA	: Emission Reduction Purchase Agreement
FAR	: Forward Action Request
GHG	: Greenhouse gas(es)
GS	: Gold Standard
GS4GG	: Gold Standard for Global Goals
GWP	: Global Warming Potential
I	: Interview
IPCC	: Intergovernmental Panel on Climate Change
kWh	: Kilo Watt Hour
MP	: Monitoring Plan
MoV	: Means of Verification
MW	: Mega Watt
MWh	: Mega Watt Hour
NGO	: Non-governmental Organisation
ODA	: Official Development Assistance
PDD	: Project Design Document
PD	: Project Developer(s)
tCO₂e	: Tonnes of CO ₂ equivalents
UNFCCC	: United Nations Framework Convention on Climate Change

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1. EXECUTIVE SUMMARY– VERIFICATION AND CERTIFICATION OPINION

Re Carbon Ltd. performed the 3rd verification of the “ÇORUM SOLAR POWER PLANT PROJECT”, a Gold Standard project with the registry reference number “GS6566” for the period in between 01/03/2022 and 18/12/2022. The scope of the activities cover the verification and certification of GHG emissions reductions reported in the Monitoring Report Version 0.4, dated 18/10/2023 of “ÇORUM SOLAR POWER PLANT PROJECT”.

Re Carbon Ltd. hereby confirms that the project activity “ÇORUM SOLAR POWER PLANT PROJECT” in Turkey, is implemented in accordance with the validated and registered PDD version 05, dated 21/01/2019. The monitoring system is in place and the emission reductions are calculated without material misstatements as per the applied approved methodology, which is AMS-I.D.: Grid connected renewable electricity generation --- Version 18.0.

Re Carbon Ltd. confirms the following based on the results of document review and on-site assessment:

The implementation of the project has resulted in the avoidance of 6,524 tCO₂e during the monitoring period in between 01/03/2022 and 18/12/2022.

2. INTRODUCTION

2.1. Objective

Through a contract, dated 21/03/2023, Re Carbon Ltd. was appointed by “GALATA WIND ENERJİ A.Ş.” to perform the 3rd verification of the “ÇORUM SOLAR POWER PLANT PROJECT”. The objective of this verification activity was to assess, with objective evidence:

- if the monitoring report version “0.4”, dated “18/10/2023” conforms with the requirements of the monitoring plan of the registered PDD and the approved methodology
- if the project activity conforms with the monitoring report and the registered PDD, and
- if the data reported in the monitoring report are complete and transparent.

2.2. Scope

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 PDD version 05, dated 21/01/2019.

The project activity and the monitoring report are assessed against the requirements of Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed on in the Marrakech Accords under decision 3/CMP.1, the annexes to that decision, AMS-I.D.: Grid connected renewable electricity generation - Version 18.0, subsequent decisions and guidance made by COP/MOP and the CDM Executive Board as well as other related rules, according to the guidance given in the CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, GS for Global Goals v1.2 and other relevant GS requirements.

The only purpose of the verification and certification is its usage during the issuance process as part of the GS project cycle. Therefore, Re Carbon Ltd. cannot 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.

2.3. Description of the Project Activity

Galata Wind Enerji A.Ş. has installed a solar power plant. The 8 unlicensed project creates the Çorum SPP. The project names are Deniz SPP, Doğanay SPP, Hilalay SPP, Karagül SPP, Kızıl SPP, Maviay SPP, Portakal SPP and Şenay SPP. The projects are newly built grid-connected solar power plant project. All project capacities are same as 1 MWe and total capacity is 8 MWe AC. The project is located in Merkez District, Tatar village of Çorum. The connection point of the project activity is Çorum TM-2 TRA-DM 12/1A. The predicted power supply to the grid is 11,640.805 MWh per annum. 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.

The project activity has 29,376 Photovoltaic Modules and 135 invertors. The key parameters about the technical design of the project are listed below in Table-1:

Table 1: Technical specifications of the project

A.1. Module Type	A.2. JKM320PP-72
A.3. Type of Modules	A.4. Polycrystalline
A.5. Maximum Power (Pmax)	A.6. 320 Wp
A.7. Maximum Voltage (Vmp)	A.8. 37.4 V
A.9. Maximum Power Current (Imp)	A.10. 8.56 A
A.11. Open Circuit Voltage (Voc)	A.12. 46,4 V
A.13. Short Circuit Current (Isc)	A.14. 9,05 A
A.15. Module Efficiency STC (%)	A.16. 16,49 %
A.17. Maximum System Voltage (V)	A.18. 1000 VDC (IEC)
A.19. Power Tolerance	A.20. 0 / +3%
A.21. Maximum fuse rating	A.22. 15 A

Technical specifications of the typical invertors

Model	SMA / MLX 60
Rated power at nominal voltage	60 kW
Maximum Input Voltage	1000 V
MPP voltage range	570 V to 800 V @400 Vac, 685 V to 800 V @480 Vac
Max. input voltage	565 V @400 Vac, 680 V @480 Vac

Max. DC short-circuit current	110 A / 150 A
Number of independent MPP inputs	1/1 (split up by external DC-Combiner Box)
Max. efficiency / European efficiency / CEC efficiency	98.6 % / 98.0 % / 98.0 %

The start date of the project activity is 19/12/2017 the day on which project began generating electricity and the first crediting period is from 19/12/2017-18/12/2022 with two times renewable crediting period of 5 years. These dates are also verified via previous monitoring report. Monitoring periods are Second MP: 01/08/2019 to 28/02/2022, Third MP: 01/03/2022-18/12/2022.

2.4. Parties Involved

GALATA WIND ENERJI A.Ş. is the project participant and host country is Turkey.

2.5. Verification Period Covered

This is the 3rd verification period from 01/03/2022- 18/12/2022 (both days included).

3. METHODOLOGY

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

- Assessment of the conformity of the actual project activity and its operation with the registered PDD, dated 21/01/2019 version 05
- A physical site visit, executed on 04/05/2023 in order to assess that all physical features of the project activity proposed in the registered PDD are in place and that the project developer has operated the project activity in line with the registered PDD.
- Assessment of the compliance of the monitoring plan with the monitoring methodology AMS-I.D.: Grid connected renewable electricity generation --- Version 18.0.
- Assessment of the compliance of the monitoring with the monitoring plan
- Assessment of data and calculation of greenhouse gas emission reductions
- Issuance of the verification report
- Independent technical review
- Approval of the verification report and request for 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 (CDM-Monitoring Report (MR)-FORM, and CDM and GS Verification Requirements)
- Table 2 (Resolution of Corrective Action, Forward Action and Clarification Requests)

The usage description of Table-1 in the Verification Protocol is explained in Table 3-1 below:

Table 3-1: Explanation of Table-1 in the Verification Protocol

Question	Reference	MoV*	Findings, comments, references and document sources	Draft & Final Conclusion
The requirements related with the GS monitoring report, and CDM verification Standards and/or Procedures	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 elaborate 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 the Verification Protocol is explained in Table 3-2 below:

Table 3-2: Explanation of Table-2 in the Verification Protocol

Draft Report Clarifications, Forward Action and Corrective Action Requests by Verification Team	Ref. to Questions in Table-1 and Table-2	Summary of Project Developers' 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 developers regarding the non-conformities	Is used to summarize the responses by verification and their conclusions

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

3.1. Verification Team and ITR Selection

The appointment process of the verification team takes into account the technical area(s), sectoral scope(s), and relevant host country experience required by the team members for the verification of the emission reductions achieved by the project activity in the related monitoring period for this verification. The relevant GS verification and previous ITR experiences are also assessed during the selection of the team members as well as the Independent Technical Reviewer (ITR). The verification team and ITR was assigned to this verification activity on

20/03/2023, taking all the above factors into consideration and following the contract review procedure.

The verification team and ITR details are given in Table 3-3 below:

Table 3-3: Verification team and ITR details

Name	Role	Host Country Experience	Scope Coverage	Technical Expertise	Involvement*
Mrs. Fikriye Seda Atabek	Team Leader	☒	☒	☒	A, DR, R
Mr. Anil SÖYLER	ITR	☒	☒	☒	ITR

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

A : Administrative

DR : Desk Review

SV : Site Visit

R : Reporting

ITR : Independent Technical Review

3.2. Desk Review of Documents

The basis for the verification activity is the monitoring report version 0.1, dated 06/04/2023, which was submitted to the verification team on the same day. This monitoring report was revised several times due to issued CARs and CLs, resulting in version 0.4, dated 18/10/2023 as the final version. The monitoring report and the monitoring activities were assessed against the registered PDD, version 05, dated 21/01/2019, the AMS-I.D.: Grid connected renewable electricity generation --- Version 18.0, the relevant CDM rules and regulations, CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, GS for Global Goals v1.2, and the Registered PDD, dated 21/01/2019, version 5.

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

A list of all the documents that were reviewed can be found in Section 6 of this verification report.

3.3. On-Site Visits

As a part of the verification activities a physical site visit was performed at the project activity's site, details of which can be seen in Table 3-4 below:

Table 3-4: Site visit details

Date	04/05/2023	
Location	Çorum	
Participant	Company Name	Role in the Organization / Role in the Site Visit
Akin Serbest	Galata Wind	Senior Business Development Manager
Enver Kurt	Galata Wind	Technician
Burak Kaplan	Galata Wind	Operator
Tunay Bilan	Tatar Village	Muhtar
Mustafa Çıtak	Tatar Village	Resident
Esma Bektaş	Tatar Village	Resident-Female
Taha Bektaş	Tatar Village	Resident
Çagla Balci	Ruzgar Danismanlik	Consultant
Seda Atabek	Re Carbon Ltd.	Lead Verifier
Points Verified	Source of Information	
Implementation and operation of the proposed CDM project activity as per the registered PDD	Document review, on-site visit and interviews with the local stakeholders from Tatar Village	
Review of information flows for generating, aggregating and reporting the monitoring parameters	Document review, on-site visit and interviews with the local stakeholders from Tatar Village	
Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the PDD	Interviews with the local stakeholders from Tatar Village	
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 on-site visit	
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD and the selected methodology	Document review, on-site visit and interviews with the local stakeholders from Tatar 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 local stakeholders from Tatar Village

3.4. Reporting of Findings via the Verification Protocol

During the verification period, a Verification Protocol (attached as Annex 1 to this verification report) was used to submit the findings to the project developers.

In line with the CDM Validation and Verification Standard the team reports the non-conformities in form 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 is explained below:

- The Verification team raises a **CAR** if one of the following occurs:
 - A non-conformity with the monitoring plan or methodology is 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 developers.
- The Verification team raises a **CL** if information is insufficient, not transparent, or not clear enough to determine whether the applicable CDM and/or GS requirements have been met.
- The Verification team raises a **FAR** during the verification for actions if the monitoring and reporting require attention and/or adjustment for the next verification period.

According to these principles, a total of 12 CARs, 00 CLs and 00 FARs were issued, all of which are listed in the Verification Protocol.

3.5. Follow-Up Interviews

During the verification period, follow-up interviews were performed by the verification team in order to further analyze the correctness and accurateness of the information provided. A list of individuals interviewed is given in Section 5 of this Verification Report.

3.6. Resolution of Outstanding Issues

During the verification activity, CARs and CLs were issued to clarify the issues that are not sufficiently transparent to reach a positive verification opinion and to approve the achieved GHG emission reductions.

If there are any findings issued as Forward Action Requests (FARs) previously, as indicated in earlier validation and/or verification reports, these are also addressed in this phase.

Outstanding issues indicated in the FARs from earlier reports, and CLs and CARs from this verification activity, were resolved and/ or clarified during the written and oral communications between the Project Developer and Re Carbon Ltd.'s Verification Team Members. These communications are backed up with objective evidence that were sent to the verification team as a proof of compliance. Concerns issued in the desk review, the on-site audit assessments, the follow up interviews and the responses provided for the issued concerns are documented in Annex 1 (Verification Protocol) in order to guarantee the transparency of the verification process.

The verification timeframe is given in detail in Table 3-5 below:

Table 3-5: Verification Timeframe

Activity	Timeline		Total Days
	From	To	
Desk Review	10/04/2023	10/04/2023	1
Review of the MR version 01	15/04/2023	15/04/2023	1
Site Visit	04/05/2023	04/05/2023	1
Issuance of the Verification Protocol version 01	10/07/2023	10/07/2023	1
Review of PDs Initial Set of Responses	03/08/2023	03/08/2023	1
Closing of all the CARs and CLs	04/08/2023	04/08/2023	1
Issuance of the Verification Report version 01	05/08/2023	05/08/2023	1
ITR Process	05/08/2023	25/08/2023	21
Issuance of the Verification Report version 02	17/08/2023	19/08/2023	3
Submission for Final Approval	25/08/2023	28/08/2023	4
Submission to the PD	31/08/2023	31/08/2023	1

Information or clarifications provided as a response to a CAR, CL or FAR could also lead to a new request. This can also be seen transparently in the Verification Protocol provided in Annex 1 of this Verification Report.

3.7. Internal Quality Control

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

The Independent Technical Review is performed by another Team Leader who was not involved in the verification activity of this project activity. Following finalization of the Verification Report by the Team Leader, the draft report is sent to the Independent Technical Reviewer. At this stage not only the report but all the supporting documents, such as emission factor calculations, additionality justifications, relevant excel sheets etc. are being reviewed.

Further CLs and CARs can be issued by the Independent Technical Reviewer during this review to cover all aspects 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. The request of issuance is submitted to the Gold Standard in line with the positive verification opinion and along with all relevant documents.

4. VERIFICATION FINDINGS

4.1. Remaining Issues from Previous Validation or Verifications

There are no FARs from previous verification and one FAR from relevant performance review (dated 05/09/2022 for MP2).

FAR from performance review: The PD should ensure that the grievance book is accessible by all. Accessibility of the grievance book by all should be checked by the VVB during the next verification.

VVB Evaluation: Logbook seen at muhtar's office during site visit. The logbook is easily accessible by stakeholders. There were no written comments. VVB therefore closes this FAR.

4.2. Compliance of the Project Implementation with the Registered PDD

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 evidence including YEDAS 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 7,880 tCO₂e and corresponding total estimated amount for the monitoring period is 6,326 tCO₂e. The actual values achieved for the current monitoring period is 6,524 tCO₂e. The actual amount of emission reduction for the current monitoring period is about 3.14 % more than the estimated emission reduction amount. However, the difference is due to the annual changes and deviations. 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.

The project also contributes to SDG 7 (Affordable and Clean Energy with 11,640.805 MWh net electricity generation), SDG 8 (Decent Work and Economic Growth with 5 employed staff during the recent year of operation period-verified during site visit) and SDG-13 (Climate Action with achieved emission reduction of 6,524 tCO₂e) during the monitoring period.

The project was commissioned on 19/12/2017 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.

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 programs in the host country are Gold Standard and GCC and the certification program is Renewable Energy Certification (REC), and the project hasn't been listed in any of them. Besides an official declaration stating that project does not benefit from any

crediting schemes is provided to VVB. hence Re Carbon Ltd. confirms that the project has not participated or been rejected under any other GHG programs since the validation.

4.3. Compliance of the Monitoring Plan with the Monitoring Methodology

The monitoring plan is in accordance with the approved methodology, AMS-ID v18, applied by the project activity.

In line with the methodology and the registered PD, the monitored parameter is the “Quantity of net electricity generation supplied by the project plant to the grid in year y”, “EGfacility,y”.

All readings and billings are done via YEDAS-EPIAS system which is the legal database of the Ministry and all 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. 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. Data crosschecked with OSOS records. No deviations between YEDAS records and OSOS records detected.

4.4. Compliance of the Monitoring with the Registered Monitoring Plan

The net electricity is measured continuously by one main electricity meter at the grid interface and recorded monthly. There is also one back-up electricity meter for each plant.

The meters used are in line with the regulatory requirements for electricity meters. The serial numbers of the meters are given below as confirmed through the site visit.

Doğanay SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65001349	65003325
Date of installation	12/12/2017	14/12/2017
Date of initial calibration	07/09/2016	31/10/2017

Portakal SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65001148	65003416

Date of installation	13/12/2017	14/12/2017
Date of initial calibration	08/09/2016	31/10/2017

Hilalay SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65001374	65003370
Date of installation	13/12/2017	14/12/2017
Date of initial calibration	08/09/2016	31/10/2017

Şenay SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65001237	65003389
Date of installation	13/12/2017	14/12/2017
Date of initial calibration	07/09/2016	31/10/2017

Deniz SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65001094	65003361
Date of installation	13/12/2017	14/12/2017
Date of initial calibration	08/09/2016	31/10/2017

Maviay SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65001333	65003363
Date of installation	12/12/2017	14/12/2017
Date of initial calibration	07/09/2016	31/10/2017

Kızıl SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65001047	65003339
Date of installation	08/09/2021	14/12/2017
Date of initial calibration	07/09/2016	31/10/2017

Karagöl SPP	Electricity Meter	Electricity Meter (Secondary)
Manufacturer	MAKEL	MAKEL
Model	C510.AMT.5851	C510.AMT.5851
Serial number	65000979	6503351
Date of installation	12/12/2017	14/12/2017
Date of initial calibration	15/05/2016	31/10/2017

The accuracy class of the meters is 0.5s and they have been controlled and maintained by the grid owner. The quantity of net electricity delivered to the grid has been calculated with the YEDAŞ records provided to the PP. There is no meter change process during the monitoring period.

There are always internal reviews of the metered data which is checked by different parties. SCADA system is available from which daily reports are taken. The data collected daily is saved in plant manager computer and backed up. Sample log books were checked during on-site visit and there were no differences in data.

For SDG 8 Decent Work and Economic Growth, “Number of employment generation” and “Health and Safety Training Records” are monitored. “Number of employment generation” is monitored via social security records. Official employee lists are provided for each month of the monitoring period. 5 employees have been employed in this monitoring period. VVB also confirmed via site visit interviews and signed declaration by PP that there has been no work related injuries during monitoring period.

“Health and Safety Training Records” are also provided to VVB. 5 employees have attended General Occupational Health and Safety Trainings during the monitoring period.

All these meters are bi-directional (meter the energy in two directions – generation and consumption). The periodical calibration or maintenance is under the responsibility of YEDAS and has been fixed as once in 10 years according to Meter Regulation of Turkey (<https://www.resmigazete.gov.tr/eskiler/2016/06/20160629-22.htm>). Since meters are sealed by TEIAS, the project proponent cannot intervene with the devices. VVB approves that PP meets all calibration related requirements.

4.5. Completeness of Monitoring

All parameters required by the methodology and Gold Standard are monitored. In line with the methodology, the parameters to be monitored are below:

“Quantity of net electricity supplied to the grid in year y”, and this parameter contributes to SDG 7-Affordable and clean energy,

“Number of employment generation” and “Health and Safety Training Records” and these parameters contribute to SDG 8 Decent Work and Economic Growth,

“Emission Reductions” and this parameter contributes to SDG 13- Climate Action.

As there are no missing parameters, monitoring is complete.

4.6. GS4GG Safeguarding Principles and Requirements

Safeguarding Principles and Requirements are in line with the registered PDD and the final version of Gold Standard for the Global Goals v 1.2. For verification of Safeguarding Principles and Requirements in the current monitoring period, document review, on site visit observations and interviews with local stakeholders were used.

Compliance check of the Data / Parameter(s) indicated in the Safeguarding Principles Monitoring Plan of the registered PDD has been carried out, as follows in Table 4-1 below:

Table 4-1: Safeguarding Principles monitoring parameters

Principle 1. Human Rights: The Project does not cause any human rights abuse and respects internationally proclaimed human rights.

Principle 2. Gender Equality: The Project does not involve discrimination in any kind of form.

Principle 3. Community Health, Safety and Working Conditions: All the employees are trained about health and safety issues during operation phase of the project.

Principle 4.1 Sites of Cultural and Historical Heritage: The Project does not do any damage, alteration or removal to the critical cultural heritage.

Principle 4.2 Forced Eviction and Displacement: The project does not involve any settlement areas.

Principle 4.3 Land Tenure and Other Rights: The project does not require any changes to land tenure arrangements or other rights.

Principle 4.4 - Indigenous people: No cultural heritage/ indigenous people are displaced due to the project.

Principle 5. Corruption: The Project does not involve and is not complicit in any kind of corruption Turkey has ratified UN Convention against Corruption and the OECD Convention on Combating Bribery of Foreign Public Officials in International Business Transactions.

Principle 6.1 Labour Rights: PP complies with national labour occupational health and safety laws and with the principles and standards embodied in the ILO fundamental. All the employees are trained about health and safety issues during operation phase of the project.

Principle 6.2 Negative Economic Consequences: Other than providing clean energy to the nation, it has no negative impact on local economy during and after project implementation.

Principle 7.1 Emissions: The Project will reduce the emission as it replaces electricity generated from fossil fuel fired power plants with zero emissions electricity from the solar power plant.

Principle 7.2 Energy Supply: The Project's purpose is to supply clean energy from the solar power plant to the national grid.

Principle 8.1 Impact on Natural Water Patterns/Flows: The project is solar power project thus there is no impact of water resources, natural or pre-existing pattern of watercourses, groundwater and/or the watershed due to the project. Staffs produce the insignificant amount of waste waters, and this wastewater has been collected in an impermeable septic tank and collected via vacuum trucks by Çorum municipality and disposed according to Regulation on Control of Water Contamination.

Principle 8.2 Erosion and/or Water Body Instability: The Project directly or indirectly does not cause additional erosion and/or water body instability or disrupt the natural pattern of erosion.

Principle 9.1 Landscape Modification and Soil: Project does not involve the use of land and soil for production of crops or other products.

Principle 9.2 Vulnerability to Natural Disaster: The project is not susceptible to decreased vulnerability to earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme conditions.

Principle 9.3 Genetic Resources: Çorum Solar Power Project does not affect the herbal life negatively.

Principle 9.4 Release of pollutants: The wastewater has been collected in an impermeable septic tank and collected via vacuum trucks by Çorum municipality and disposed according to Regulation on Control of Water Contamination.

Principle 9.5 Hazardous and Non-hazardous Waste : The Project producing electricity from the solar power plant to the national grid. Therefore, this SPP does not produce any chemicals or hazardous waste (NO_x, SO_x, VOC, mercury) quantity and just waste oil has been collected by accredited abatement companies according to national legal disposal requirements. The solid waste on site have been generated by the personnel, and not from processes. This domestic solid waste has been stored in closed containers on site and disposed of properly according to related regulation.

Principle 9.6 Pesticides & Fertilisers: The Project does not involve the application of pesticides and/or fertilizers.

Principle 9.7 Harvesting of Forests: The project does not involve harvesting of forest.

Principle 9.8 Food: The Project does not modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives.

Principle 9.9 Animal husbandry: The Project does not modify the involve animal husbandry.

Principle 9.10 High Conservation Value Areas and Critical Habitats: The project area is not a protected area related with the biodiversity, there are no sensitive genes, species and/or habitats existing within the project projects impact boundaries.

Principle 9.11 Endangered Species: There are no endangered species identified as potentially being present the project boundary.

VVB confirms that the above assessment on safeguarding principles is complete.

4.7. Compliance with the Calibration Frequency Requirements for Measuring Instruments

VVB approves that the meters are calibrated by government agency and PP has no interference with meters.

4.8. Assessment of Data and Calculation of Emission Reductions

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 by Bureau Veritas version 3 dated 24/01/2019, the combined margin emission factor had been validated and will remain the same for the first crediting period of 5 years as 0.5605 tCO₂/MWh.

YEDAŞ data and OSOS records are presented to VVB for all months of the monitoring period. All data in emission reductions table are checked with the YEDAŞ data. All data in emission reductions table are cross checked with the monthly reading protocols (OSOS). The net electricity generated during the current monitoring period was as follows in Table 4-2 below:

Table 4-1: Net electricity generation

Period	Amount	Compliance check
2022 (01/03/2022-18/12/2022)	Export to Grid: 11,723,306 MWh Import from Grid: 82,501 MWh Net electricity supplied to grid: 11,640,805 MWh	Monthly YEDAS-EPIAŞ records
Total	Export to Grid: 11,723,306 MWh Import from Grid: 82,501 MWh Net electricity supplied to grid: 11,640,805 MWh	Monthly YEDAS-EPIAŞ records

Period	Amount	Compliance check
(01/03/2022- 18/12/2022)		

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 AMS-ID v18 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 (tCO₂e/yr)

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

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

Therefore, the emission reductions generated during the monitoring period are calculated as follows:

$$ER_y = BE_y - PE_y - LE_y$$

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 CO₂/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 CO₂ 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" (tCO₂ / 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.

The energy generating equipment is not transferred from or to another activity. Therefore, leakage (LE_y) is also considered as "0" in line with the relevant applied methodology.

Combined margin CO₂ 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 5 years.

It has been confirmed that the data used for emission reductions are correct. The grid emission factor taken is 0.5605 tCO₂ / 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 and project 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 6,326 tCO₂e corresponding to the monitoring period. However, the project in operation totally reached 6,524 tCO₂e in this period.

EF_{grid}, CM, $\gamma = 0.5605 \text{ tCO}_2/\text{MWh}$

BE_y = $11,640.805 \text{ MWh} * 0.5605 \text{ tCO}_2/\text{MWh} = 6,524 \text{ tCO}_2$

VVB confirms that the data used for emission reductions are correct. The grid emission factor taken is 0.5605 tCO₂/MWh and the value is same as fixed ex-ante in the registered PDD.

VVB also confirms that the methods and formulae used for calculating baseline emissions are in line with the methodology and the registered PDD. The net electricity generation is multiplied with the grid emission factor to arrive at the emission reductions.

The grid emission factor and data and parameters available before validation are also applied in line with the registered PDD and baseline excel sheet for validation.

Besides that, the VVB has checked the I-REC Registry (<https://v-1.evident.app/Public/ReportDevices/>), wherein projects from Turkey are listed as of the verification report date and this project isn't available within I-REC Registry database. Similarly, VCS project database (<http://vcsprojectdatabase.org/#/home>) was checked and this project isn't available within VCS project database. Given that CDM projects are not applicable in Turkey, no domestic REC scheme is implemented yet and the project does not appear on I-REC and VCS registries, it could be confirmed that no RECs and other VER carbon credits are being issued for the project at the time of this verification.

4.9. Quality of Evidence

According to the PDD, the estimated emission reduction for this monitoring period would be 6,326 tCO₂e corresponding to the monitoring period. However, the project in operation totally reached 6,524 tCO₂e in this period.

The vintage break-up of the emission reductions during the current monitoring period was as follows in Table 4-3 below:

Table 4-3: Emission Reduction Values

Period	Emission reductions (tCO ₂ e)
2022 Vintage (01/03/2022- 18/12/2022)	6,524
Total	6,524

Calculations have been reproduced by VVB and the source data (YEDAS-EPIAS records) are presented by PP. 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 AMS-ID v18 and the monitoring plan given in the registered PD.

4.10. Management System and Quality Assurance

The net electricity is measured continuously by one main electricity meter at the grid interface and recorded monthly. There is also one back up electricity meter for each unlicensed portion.

The meters used in the power house are in line with the Energy Market Regulatory Authority (EMRA) requirements for the electricity meters. Both these meters are bi-directional (meter the energy in two directions – consumption and production). If there is a measuring difference between these two meters and one of the parties (TEIAS or the PP) requests for calibration of the meters, in this case, the meters will be calibrated without waiting for the periodical check. This calibration process is made by an accredited party under the control of TEIAS and the PP is not responsible for calibration of the meters in Turkey according to the local standards and requirements.

4.11. Materiality

VVB checked all data set (OSOS records) and each day of production is included in these readings. These readings are exact and are the basis for billing. 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.

4.12. Verification of Sampling Plan

No sampling approach is used.

4.13. Post Registration Changes

4.13.1. Temporary deviations

N/A.

4.13.2. Corrections

N/A.

4.13.3. Changes to the start date of the crediting period

N/A

4.13.4. Permanent changes

N/A.

4.13.5. Changes to the project design

N/A.

5. LIST OF INDIVIDUALS INTERVIEWED

The list of individuals who were interviewed during the verification period is given in Table 5-1 below:

Table 5-1: List of individuals interviewed

Reference Number	Means of Interview ¹	Full Name	Organization	Title
01	SV	Akin Serbest	Galata Wind	Senior Business Development Manager
02	SV	Ozgur Akin	Galata Wind	Sustainability Senior Expert
03	SV	Timur Meral	Tatar Village	Muhtar
04	SV	Fatma Erdogan	Tatar Village	Resident-Female
05	SV	Oktay Tasdemir	Galata Wind	Security
06	SV	Emrah Karagülle	Galata Wind	Security
07	SV	İsmail Akpınar	Galata Wind	Technician
08	SV	Cagla Balci	Ruzgar Danismanlik	Consultant
09	SV	Seda Atabek	Re Carbon Ltd.	Lead Verifier

There hadn't been any complaint raised by the interviewed local stakeholders during the audit.

The local stakeholders as stated in the Table 5-1 above were interviewed about the following issues and there hadn't been any complaint by the interviewed local stakeholders during the on-site audit:

- 5 employees employed for this plant, 5 locals, Enver Kurt is employed in January 2023 as electricity technician.
- There are no complaints from none of the stakeholders, communication is good.
- School is being built by PP in Tatar Village. The official documents will be signed soon.
- Scholarships are given to students.
- No change in capacity, still 8 MW.
- No disruption in energy generation in last year.
- Meters for Karagul, Kizil and Doganay have been seen on site
- Logbook seen during site visit
- PP has built the village house, water pipeline and now building school.

¹ SV: Site visit; T: Telephone; EM: E-mail

It was also concluded that the grievance mechanism is in place and this was also confirmed by the interviewed local stakeholders during the audit. Stakeholders confirmed that they can easily reach PP by phone or physical visit when they have a comment/request. The logbook that is available at Muhtar is seen by VVB during physical site visit. No written comments available in the logbook.

6. LIST OF DOCUMENTS REVIEWED

The list of the documents which were reviewed during the verification period is given in Table 6-1 below:

Table 6-1: List of documents reviewed

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D01	Registered PDD	5	21/01/2019
D02	AMS-ID	18	28/11/2014
D03	Verification Service Agreement	-	21/03/2022
D04	Monitoring Report	1	06/04/2023
D05	Monitoring Report	2	27/07/2023
D06	ER Calculation Excel Sheet	1	06/04/2023
D07	CDM Validation and Verification Standard For Project Activities	3.0	09/09/2021
D08	CDM Project Standard For Project Activities	3.0	09/09/2021
D09	CDM Project Cycle Procedure For Project Activities	3.0	09/09/2021
D10	Gold Standard for Global Goals	1.2	-
D11	Validation Report	3	24/01/2019
D12	Training Records and Certificates	-	2022
D13	Social Security Records and employee lists	-	2022
D14	Meter first index protocols	-	01/11/2017
D15	Acceptances	-	09/12/2017
D16	YEPAS Energy Bills	-	2022
D17	OSOS-meter readings	-	2022
D18	YEPAS mailing records	-	2022
D19	Grievance Logbook	-	20/06/2018
D20	GS4GG Performance Review for MP2	-	05/09/2022
D21	MR for MP 2		26/07/2022
D22	Second Verification Report		06/08/2022
D23	Monitoring Report	3	18/08/2023
D24	ER Calculation Excel Sheet	2	18/08/2023
D25	Monitoring Report	4	18/10/2023

7. VERIFICATION TEAM AND ITR COMPETENCE

Mrs. Fikriye Seda ATABEK holds B.Sc. degree in “Chemical Engineering” and a M.Sc. degree in “Energy Science and Technology”. She is a lead auditor and trainer for ISO 50001 and since 2004 has been working in the fields of “Management systems”, “ISO 14064” and “Energy Management in Industry”. She has been involved in more than 100 GS and VCS projects as an ITR, Team Leader, Validator and Verifier. With re-carbon, Seda is a free-lance Team Leader, ITR and a TA 1.1, 1.2, 2.1 & 3.1. expert. Seda is also a Regional Expert for Türkiye and China.

Mr. Anıl SÖYLER holds a B. Sc. in “Environmental Engineering” from Middle East Technical University/Ankara. He has more than 15 years of professional experience in environmental management, monitoring and auditing, environmental and social impact assessments, GHG emission reporting as well as projects’ validation and verification. He has been involved in the validation/verification services of more than 200 GHG emission reduction projects. Anıl has also been involved in both national and international projects, supported by IFC, the World Bank and EBRD. With re-carbon, Anıl is a free-lance Team Leader, ITR and TA 1.2 expert. Anıl is also a Regional Expert for China and Türkiye.

7.1. Appointment Certificates

CERTIFICATE OF APPOINTMENT



Within the scope and in strict accordance to the appointments indicated below, the bearer may:

- Participate in assessments conducted by re-carbon Ltd.
- Take the appointed positions within and outside of an assessment team
- Bring specific expertise to 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. 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 performance assessments and/or other reasons as defined above.

This Appointment Certificate is granted on the date of **01.08.2022** by:



Christian Johannes
(General Manager)

This Certificate of Appointment is given to

Mrs. Fikriye Seda Atabek

as a confirmation of compliance with re-carbon's internal qualification requirements for the following positions:



Gold Standard
Climate Security & Sustainable Development



SECTORAL SCOPE	TECHNICAL AREA	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
SS 01: Energy industries	TA 1.1: Thermal energy generation															
	TA 1.2: Renewables	08.02.2022	08.02.2022			08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022
SS 02: Energy distribution	TA 2.1: Energy distribution	08.02.2022	08.02.2022			08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022
SS 03: Energy demand	TA 3.1: Energy demand	08.02.2022	08.02.2022			08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022
SS 13: Waste handling and disposal	TA 13.1: Solid waste and wastewater															
	TA 13.2: Manure															
SS 15: Agriculture	TA 15.1: Agriculture															



ICR International Carbon Registry

BioCarbon Registry

SECTORAL SCOPE	TECHNICAL AREA	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
SS 01: Energy industries	TA 1.1: Thermal energy generation															
	TA 1.2: Renewables	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022										
SS 02: Energy distribution	TA 2.1: Energy distribution	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022										
SS 03: Energy demand	TA 3.1: Energy demand	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022										
SS 13: Waste handling and disposal	TA 13.1: Solid waste and wastewater															
	TA 13.2: Manure															
SS 15: Agriculture	TA 15.1: Agriculture															

COUNTRY EXPERTISE:

Turkey, China

F-C-053 / 13.04.2022 - 03

CERTIFICATE OF APPOINTMENT



Within the scope and in strict accordance to the appointments indicated below, the bearer may:

- Participate in assessments conducted by re-carbon Ltd.
- Take the appointed positions within and outside of an assessment team
- Bring specific expertise to 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. 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 performance assessments and/or other reasons as defined above.

This Appointment Certificate is granted on the date of **03.08.2022** by:



Christian Johannes
(General Manager)

This Certificate of Appointment is given to

Mr. Anıl Söyler

as a confirmation of compliance with re-carbon's internal qualification requirements for the following positions:



Gold Standard
Climate Security & Sustainable Development



SECTORAL SCOPE	TECHNICAL AREA	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
SS 01: Energy industries	TA 1.1: Thermal energy generation															
	TA 1.2: Renewables	08-02-2021	08-02-2021		03-08-2022	08-02-2021	08-02-2021	08-02-2021	08-02-2021	03-08-2022	08-02-2021	08-02-2021	08-02-2021	08-02-2021	03-08-2022	08-02-2021
SS 02: Energy distribution	TA 2.1: Energy distribution															
SS 03: Energy demand	TA 3.1: Energy demand															
SS 13: Waste handling and disposal	TA 13.1: Solid waste and wastewater	08-02-2021	08-02-2021		03-08-2022	08-02-2021	08-02-2021	08-02-2021	08-02-2021	03-08-2022	08-02-2021	08-02-2021	08-02-2021	08-02-2021	03-08-2022	08-02-2021
	TA 13.2: Manure															
SS 15: Agriculture	TA 15.1: Agriculture															



ICR International Carbon Registry

BioCarbon Registry

SECTORAL SCOPE	TECHNICAL AREA	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
SS 01: Energy industries	TA 1.1: Thermal energy generation															
	TA 1.2: Renewables															
SS 02: Energy distribution	TA 2.1: Energy distribution															
SS 03: Energy demand	TA 3.1: Energy demand															
SS 13: Waste handling and disposal	TA 13.1: Solid waste and wastewater															
	TA 13.2: Manure															
SS 15: Agriculture	TA 15.1: Agriculture															

COUNTRY EXPERTISE:

Turkey, China

8. VERIFICATION AND CERTIFICATION OPINION

Re Carbon Ltd. performed the 3rd verification of Gold Standard “ÇORUM SOLAR POWER PLANT PROJECT”, a project with the registry reference number “GS6566” for the period in between 01/03/2022 and 18/12/2022. The scope of our activities covers the verification and the certification of GHG emissions reductions, as reported in the Monitoring Report Version 0.4 dated 18/10/2023 of “ÇORUM SOLAR POWER PLANT PROJECT”.

GALATA WIND ENERJİ 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 as indicated in the final PDD. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project are under the responsibility of 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 0.4 dated 18/10/2023.

The verification was performed by a verification team consisting of “Fikriye Seda Atabek as the team leader and Anil Söyler as the 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 CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, GS for Global Goals v1.2.

Re Carbon Ltd. hereby confirm that the project activity “ÇORUM SOLAR POWER PLANT PROJECT” in Turkey, was implemented in accordance with the validated and registered PDD version 05, dated 21/01/2019. The monitoring system is in place and the emission reductions were calculated without material misstatements as per the applied approved methodology AMS-I.D.: Grid connected renewable electricity generation --- Version 18.0.

Re Carbon Ltd. confirms the following, based on the results of the document review and the on-site assessment:

Project Title	ÇORUM SOLAR POWER PLANT PROJECT	
Applicable Period	01/03/2022 – 18/12/2022	
Baseline Emissions	6,524 tCO ₂ e	
Project Emissions	0 tCO ₂ e	
Leakage Emissions	0 tCO ₂ e	
Emission Reductions	6,524 tCO ₂ e (GS-VERs)	
	2022 Vintage (01/03/2022- 18/12/2022)	6,524
	Total (01/03/2022- 18/12/2022)	6,524



Mrs. Fikriye Seda ATABEK



Mr. Anil SÖYLER



Ms. Esin TUNALI

PROJECT NUMBER: 1092



Team Leader
20/10/2023

ITR
20/10/2023

Certification Manager
20/10/2023

ANNEX 1: VERIFICATION PROTOCOL

Table 1 – CDM-Monitoring Report (MR)-FORM, and CDM and GS Verification Requirements

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
Cover Page					
1. Has the following information been provided on the cover page of the MR?	GS4GG-MR-FORM version 1.1	DR	Please see in below.	OK	OK
1.1. Gold Standard project ID;	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.2. Title of the project;	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.3. Version number of PDD applicable to this monitoring report;	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.4. Version number of the monitoring report;	GS4GG-MR-FORM version 1.1	DR	Yes, the version number is available.	OK	OK
1.5. Completion date of the monitoring report (DD/MM/YYYY);	GS4GG-MR-FORM version 1.1	DR	Yes, the completion date is available.	OK	OK
1.6. Date of the project design certification (DD/MM/YYYY);	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.7. Date of last annual report;	GS4GG-MR-FORM version 1.1	DR	N/A	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
1.8. Monitoring period number;	GS4GG-MR-FORM version 1.1	DR	third	OK	OK
1.9. Duration of this monitoring period (DD/MM/YYYY– DD/MM/YYYY);	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.10. Project representative(s);	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.11. Host country;	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.12. Activity requirements applied;	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.13. Methodology (ies) applied and version number;	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
1.14. Product requirements applied;	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
2. Has the achieved sustainable development contributions been summarized in Table-1 using the relevant tabular format provided?	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
3. Has the product vintages been included in Table-2 using the relevant tabular format provided?	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
A. Description of project					

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

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
A.1. General description of project					
A.1.1. Has a brief summary of the detailed description given in the section B.1 provided under section A.1 of the MR?	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
A.1.2. Has the purpose of the project and the measures taken to reduce greenhouse gas emissions been provided under section A.1 of the MR?	GS4GG-MR-FORM version 1.1	DR	The purpose of the project has been provided in the Section A.1 of the MR.	OK	OK
A.1.3. Has a brief description of the installed technology and equipments been provided under section A.1 of the MR?	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
A.1.4. Has the relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.) been provided under section A.1 of the MR?	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
A.2. Location of project					
A.2.1. Has complete information on the location of the project activity, including town, city, country, map and GPS coordinates been provided under section A.2 of the MR?	GS4GG-MR-FORM version 1.1	DR	Stated	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
A.3. Reference of applied methodology					
A.3.1. Has a complete reference of the methodology, referred tools and standardized baselines, if applicable, applied been provided under section A.3 including the version numbers and titles?	GS4GG-MR-FORM version 1.1	DR	In MR, please refer to the tools used only	CAR-1	OK
A.4. Crediting period of project					
A.4.1. Has the crediting period including the crediting period start and end dates, choice and length of the crediting period been provided under section A.4 of the MR?	GS4GG-MR-FORM version 1.1	DR	Stated	OK	OK
B. Implementation of project					
B.1. Description of implemented project					
1. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in section B.1 of the MR?	GS4GG-MR-FORM version 1.1 CDM project standard for project	DR	Please delete sentence "The electricity generation is resulted 11 tCO2e for this second monitoring period."	CAR-2	OK

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

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
	activities §256a				
2. Has the information on the implementation and actual operation of the project activity (including relevant dates, construction, commissioning, continued operation periods etc.) been provided under section B.1 of the MR?	CDM project standard for project activities §256b	DR	Stated	OK	OK
3. 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 B.1 of the MR?	CDM project standard for project activities §256b	DR, SV	The project consists of only one site.	OK	OK
4. If the implementation of the project planned to be realized in different phases, has the progress of the proposed GS project achieved in each phase been indicated under section B.1 of the MR?	CDM project standard for project activities §256b	DR	N/A	OK	OK
5. Do the actual project and its operation comply with the registered PDD?	CDM validation and verification standard for project activities §354a	DR	Yes	OK	OK
6. Have the PDs implemented and operated the GS project as per the descriptions contained in the registered PDD?	CDM validation and verification standard for project activities §354b	DR	Yes	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
B.1.1. Forward action requests (FARs) identified during validation and/or previous verification					
B.1.1.1 Is there any remaining FARs from the validation and/or previous verification activities?	GS4GG-MR-FORM version 1.1 CDM validation and verification standard for project activities §319c, 395h	DR	Please refer to GS Issuance Review FAR from MP2 “The PD should ensure that the grievance book is accessible by all. Accessibility of the grievance book by all should be checked by the VVB during the next verification.” Please delete FAR from MP1 review	CAR-3	OK
B.1.1.2 If there any remaining FARs from the validation and/or previous verification activities, have the PDs addressed these FARs in the MR?	GS4GG-MR-FORM version 1.1 CDM validation and verification standard for project activities §320	DR	N/A	OK	OK
B.1.1.3 Has the FARs been resolved?	GS4GG-MR-FORM version 1.1 CDM validation and verification standard for project activities §344d §346	DR	N/A	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
B.2. Post design certification (registration) changes					
B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline					
B.2.1.1 Is it indicated whether any temporary deviations have been applied during this monitoring period?	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §231 CDM CDM validation and verification standard for project activities §282	DR	N/A	OK	OK
B.2.1.2 If there are temporary deviations from the registered monitoring plan or applied methodology or standardized baseline, have PDs described the nature, extent and duration of the non-conforming monitoring and the proposed alternative monitoring of the project activity in the MR?	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §231	DR	N/A	OK	OK
B.2.1.3 If there are temporary deviations from the registered monitoring	GS4GG-MR-FORM version 1.1	DR	N/A	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
plan or applied methodology or standardized baseline, do the description of deviations include the following?					
B.2.1.3.1 How it deviates from the monitoring plan and/or applied methodology(ies),	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
B.2.1.3.2 The duration for which the deviation(s) is(are) applicable	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
B.2.1.3.3 Justification on the conservativeness of the approach.	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
B.2.1.4 If there are temporary deviations from the registered monitoring plan or applied methodology or standardized baseline, have PDs applied conservative assumptions or discount factors to the calculations to the extent required to ensure that GHG emission reductions will not be over-estimated as a result of the deviation?	CDM project standard for project activities §231a CDM validation and verification standard for project activities §284	DR	N/A	OK	OK
B.2.2. Corrections					
B.2.2.1 Has it been indicated whether there are any corrections to project	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
information or parameters fixed at the registration?	CDM validation and verification standard for project activities §288				
B.2.2.2 Is the corrected information an accurate reflection of actual project information?	CDM validation and verification standard for project activities §288a	DR	N/A	OK	OK
B.2.2.3 Are the corrected parameters in accordance with the applied methodology, selected monitoring plan and/or the applied standardized baseline?	CDM validation and verification standard for project activities §288b	DR	N/A	OK	OK
B.2.3. Changes to start date of crediting period					
B.2.3.1 Is it indicated whether any changes to the start date of the crediting period?	CDM project standard for project activities §235 §236 CDM validation and verification standard for project activities §290	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
B.2.4. Permanent changes from registered monitoring plan, applied methodology or standardized baseline					
B.2.4.1 Is it indicated whether any permanent changes from the registered monitoring plan or applied methodologies or standardized baseline?	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §238	DR	N/A	OK	OK
B.2.4.2 If there are such changes, have they been listed providing the version number and completion date of the revised design certified (i.e., approved) PDD for each?	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
B.2.4.3 Are the changes to the monitoring plan contained in the registered PDD in compliance with the applied methodology and, where applicable, the applied standardized baseline?	CDM validation and verification standard for project activities §296	DR	N/A	OK	OK
B.2.4.4 Do the changes reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan?	CDM validation and verification standard for project activities §297	DR	N/A	OK	OK
B.2.4.5 If the permanent changes are likely to lead to a reduction in the	CDM validation and verification standard for	DR	N/A	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
accuracy of the calculation of emission reductions, do the PDs apply conservative assumptions or discount factors to the calculations to the extent required to ensure that emission reductions will not be over-estimated as a result of the permanent change?	project activities §298				
B.2.5. Changes to project design of approved project					
B.2.5.1 Are there proposed or actual changes to the project design of the approved project?	GS4GG-MR-FORM version 1.1 CDM validation and verification standard for project activities §300	DR	N/A	OK	OK
B.2.5.2 Do the actual changes comply with the monitoring plan, the applied monitoring methodology and tools and/or, where applicable, the applied standardized baseline, and/or the level of accuracy of the monitoring activity?	CDM validation and verification standard for project activities §302	DR	N/A	OK	OK
B.2.5.3 Does the revised PDD comply with the applied monitoring methodology and tools and/or standardized baseline or any later	CDM validation and verification standard for	DR	N/A	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 of the methodology and/or standardized baseline or the requirements of another methodology and/or the standardized baseline that is applicable to the project activity?	project activities §303				
B.2.5.4 Does the changes to project activity include the following?	CDM project standard for project activities §241	DR	N/A	OK	OK
B.2.5.4.1 Increase in the capacity specified in the registered PDD with the following conditions:	CDM project standard for project activities §241a	DR	N/A	OK	OK
B.2.5.4.1.1 If the project activity is large-scale: CERs may be claimed up to an amount calculated based on the increased capacity by 20 per cent of the capacity specified in the originally registered PDD; or	CDM project standard for project activities §241a (i)a	DR	N/A	OK	OK
B.2.5.4.1.2 If the project activity is large-scale: CERs may be claimed for the full amount calculated based on the increased capacity if the project developers can demonstrate that the reason for the increase is not within the control of the project developers;	CDM project standard for project activities §241a (i)b	DR	N/A	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
B.2.5.4.1.3 If the project activity is small-scale, CERs may be claimed for the full amount calculated based on the increased capacity, provided that the resulting project activity does not exceed the small-scale threshold for the corresponding small-scale project type (i.e., Type I, II or III);	CDM project standard for project activities §241a (ii)	DR	N/A	OK	OK
B.2.5.4.2 Decrease in the capacity specified in the registered PDD;	CDM project standard for project activities §241b	DR	N/A	OK	OK
B.2.5.4.3 Addition of new components or extension/addition of technologies/measures that introduce complimentary technologies/measures involving mass and/or energy transfer to/from the technologies/measures specified in the originally registered PDD;	CDM project standard for project activities §241c	DR	N/A	OK	OK
B.2.5.4.4 Removal of a component or technology/measure specified in the registered PDD;	CDM project standard for project activities §241d	DR	N/A	OK	OK
B.2.5.4.5 Changes to the technologies/measures that result in the same technologies/measures as in the	CDM project standard for project activities §241e	DR	N/A	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
originally registered technologies/measures					
B.2.5.4.6 Removal or addition of one or more site(s) of the project activity registered with multiple sites;	CDM project standard for project activities §241f	DR	N/A	OK	OK
B.2.5.4.7 Removal of a project activity from a bundle of small-scale CDM project activities; methodologies, or voluntary change to other methodologies, provided all requirements in the updated/changed methodologies are met.	CDM project standard for project activities §241g	DR	N/A	OK	OK
B.2.5.4.8 Actual operational parameters that are within the control of the project developers, differing from the expected parameters;	CDM project standard for project activities §241h	DR	N/A	OK	OK
B.2.5.4.9 Any consequential changes to the application of methodologies, standardized baselines and/or other methodological regulatory documents resulting from the changes referred to in questions B.2.6.7.1-B.2.6.7.4 above	CDM project standard for project activities §241i	DR	N/A	OK	OK
B.2.5.4.10 Voluntary update of the applied methodologies or the other applied methodological regulatory documents to a later valid version of them, or	CDM project standard for project activities §241j	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
voluntary change to other methodologies, provided all requirements in the updated/changed methodologies and the other applied methodological regulatory documents are met					
B.2.5.5 Do the PDs report in the revised PDD the impacts of the proposed or actual changes to the registered project activity on the following:	CDM project standard for project activities §242	DR	N/A	OK	OK
B.2.5.5.1 The applicability and application of the applied methodology and, where applicable, the applied standardized baseline under which the project activity has been registered;	CDM project standard for project activities §242a CDM validation and verification standard for project activities §303a	DR	N/A	OK	OK
B.2.5.5.2 Compliance of the monitoring plan with the applied methodology and, where applicable, the applied standardized baseline;	CDM project standard for project activities §242C CDM validation and verification standard for project activities §303c	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
B.2.5.5.3 The level of accuracy and completeness in the monitoring of the project activity;	CDM project standard for project activities §242d CDM validation and verification standard for project activities §303d	DR	N/A	OK	OK
B.2.5.5.4 The additionality of the project activity;	CDM project standard for project activities §242e CDM validation and verification standard for project activities §303e	DR	N/A	OK	OK
B.2.5.5.5 The scale of the project activity.	CDM project standard for project activities §242f CDM validation and verification standard for project activities §303f	DR	N/A	OK	OK
B.2.5.6 In the case of investment analysis, have PDs modified the key parameters in the original	CDM project standard for project activities §243a	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
spreadsheet calculations affected by the proposed or actual modifications to the project activity?	CDM validation and verification standard for project activities §304a				
B.2.5.7 In cases where only barriers have been claimed to demonstrate additionality, have PDs demonstrated that the barriers are still valid under the new circumstances?	CDM project standard for project activities §243b CDM validation and verification standard for project activities §304b	DR	N/A	OK	OK
B.2.5.8 If the PDs can't demonstrate compliance with the requirements of the applied methodology and, where applicable, the applied standardized baseline under which the project activity has been registered, has PDs revised the PDD applying the latest version of the methodology and, where applicable, the applied standardized baseline?	CDM project standard for project activities §245a (i)	DR	N/A	OK	OK
B.2.5.9 If another methodology and, where applicable, the applied standardized baseline is applied to the project activity, has PDs demonstrated compliance with the requirements of the selected	CDM project standard for project activities §245a-(ii)	DR	N/A	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
methodology and/or the selected standardized baseline?					
C. Description of monitoring system applied by the project					
C.1. Has a description of the monitoring system been provided under section C of the MR?	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §258	DR	Provided	OK	OK
C.2. Has information about the data collection procedures, including following been provided under section C of the MR?	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §258	DR	Provided	OK	OK
C.2.1. Information flow including data generation	CDM project standard for project activities §258	DR	Stated	OK	OK
C.2.2. Data aggregation	CDM project standard for project activities §258	DR	Yes, this is available.	OK	OK
C.2.3. Data recording	CDM project standard for project	DR	Yes, the data recording details are available.	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
	activities §258				
C.2.4. Data calculation	CDM project standard for project activities §258	DR	Yes, this is available.	OK	OK
C.2.5. Data reporting	CDM project standard for project activities §258	DR	Yes, such details are available.	OK	OK
C.3. Has organizational structure, roles and responsibilities of personnel, and emergency procedures for the monitoring system been provided under section C of the MR?	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §258	DR	Stated	OK	OK
C.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?	CDM validation and verification standard for project activities §361b-(iv)	DR	Please see above	OK	OK
C.5. Have quality assurance and quality control procedures been applied in accordance with the monitoring plan?	CDM validation and verification standard for project activities §361e	DR	This is in accordance with the monitoring plan.	OK	OK
C.6. Has line diagram(s) showing all relevant monitoring points been provided under section C of the MR?	CDM project standard for project activities §258	DR	Stated	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
C.7. Have the monitoring plan been properly implemented and followed by the PDs?	CDM validation and verification standard for project activities §361a	DR	Yes	OK	OK
C.8. 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 PDD or any accepted revised monitoring plan?	CDM validation and verification standard for project activities §361b-(i)-(ii)-(iii)	DR	Yes	OK	OK
C.9. Have all parameters stated in the monitoring plan, the applied methodology and relevant CDM EB decisions been sufficiently monitored and updated as applicable?	CDM validation and verification standard for project activities §361b	DR	Yes, the monitoring parameters have been implemented in accordance with the monitoring plan contained in the registered PDD.	OK	OK
C.10. Are monitoring results consistently recorded and stored as per the approved frequency?	CDM validation and verification standard for project activities §361d	DR	Yes, the monitoring parameters have been implemented and recorded in accordance with the monitoring plan contained in the registered PDD.	OK	OK
D. Data and Parameters					
D.1. Data and parameters fixed ex ante or at renewal of crediting period					
D.1.1. Has all the data that is determined only once for the crediting period but are used after registration of the	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
project, been listed under section D.1 using the tabular format?					
D.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?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.1.3. In the data/parameter tables provided under section D.1 of the MR, for each SDG Indicator given in accordance with the approved PDD?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.1.4. In the data/parameter tables provided under section D.1 of the MR, for each data has the name of the data/parameters given in accordance with the approved PDD and the applied approved methodology?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.1.5. In the data/parameter tables provided under section D.1 of the MR, for each data has the unit of the data/parameters given in accordance with the approved PDD and the applied approved methodology?	GS4GG-MR-FORM version 1.1	DR	Provided	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
D.1.6. In the data/parameter tables provided under section D.1 of the MR, for each data has the description of the data/parameters given in accordance with the approved PDD and the applied approved methodology?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.1.7. In the data/parameter tables provided under section D.1 of the MR, for each data has the source of the data/parameters given in accordance with the approved PDD and the applied approved methodology?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.1.8. In the data/parameter tables provided under section D.1 of the MR, for each data has the values applied of the data/parameters given in accordance with the approved PDD and the applied approved methodology?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.1.9. In the data/parameter tables provided under section D.1 of the MR, for each data has it been indicated what measurement methods and procedures have been used?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.1.10. In the data/parameter tables provided under section D.1 of the MR, for each data has it been	GS4GG-MR-FORM version 1.1	DR	Provided	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
indicated what the data/parameters are used for (baseline/project/leakage emission calculations)?					
D.2. Data and parameters monitored					
D.2.1. Has all the data that are monitored been listed under section D.2 of the MR using the tabular format?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
D.2.2. In the data/parameter tables provided under section D.2 of the MR, for each data has the name of the SDG Indicator and data/parameters given in accordance with the approved PDD and the applied approved methodology?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
D.2.3. In the data/parameter tables provided under section D.2 of the MR, for each data has the unit of the data/parameters given in accordance with the registered PDD and the applied approved methodology?	GS4GG-MR-FORM version 1.1	DR	The units of monitored data/parameters have been provided.	OK	OK
D.2.4. In the data/parameter tables provided under section D.2 of the MR, for each data has it been described how the data is monitored?	GS4GG-MR-FORM version 1.1	DR	This has been available.	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
D.2.5. In the data/parameter tables provided under section D.2 of the MR, for each data has the source of data been indicated (like logbooks, daily records, surveys, etc.)?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.2.6. In the data/parameter tables provided under section D.2 of the MR, for each data has the values of the monitoring parameter been indicated?	GS4GG-MR-FORM version 1.1	DR	Provided	OK	OK
D.2.7. In the data/parameter tables provided under section D.2 of the MR, for each data has the QA/QC procedures being applied been given?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
D.2.8. In the data/parameter tables provided under section D.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?	GS4GG-MR-FORM version 1.1	DR	Yes, please see below.	OK	OK
D.2.8.1 Details on accuracy class	GS4GG-MR-FORM version 1.1	DR	The accuracy class details are available in the Section D.2 of the MR.	OK	OK
D.2.8.2 Calibration frequency	GS4GG-MR-FORM version 1.1	DR	The calibration frequency is available in the Section D.2 of 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
D.2.8.3 Serial number	GS4GG-MR-FORM version 1.1	DR	The serial numbers of the electricity meters are available.	OK	OK
D.2.8.4 Calibration date	GS4GG-MR-FORM version 1.1	DR	available	OK	OK
D.2.8.5 Validity of the calibration	GS4GG-MR-FORM version 1.1	DR	available	OK	OK
D.2.9. In the data/parameter tables provided under section D.2 of the MR, for each data has the measurement and recording frequency been indicated?	GS4GG-MR-FORM version 1.1	DR	Yes, the measurement frequency has been provided.	OK	OK
D.2.10. Is the calibration frequency for measuring equipments specified in the monitoring methodology, in the applied standardized baselines or in the monitoring plan?	CDM validation and verification standard for project activities §370	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.11. If the calibration frequency for measuring equipments isn't specified in the monitoring methodology, in the applied standardized baselines or the monitoring plan, are the equipments calibrated either in accordance with the specifications of the local/national standards, or as per the manufacturer's specification?	CDM validation and verification standard for project activities §370	DR	The calibration frequency is available in the Section D.2 of 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
D.2.12. If neither local/national standards nor the manufacturer's specification are available, have the international standards been used?	CDM validation and verification standard for project activities §370	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.13. Is the calibration of the measuring equipment that have an impact on the claimed emission reductions conducted by the PDs at a frequency specified in the applied monitoring methodology and/or the monitoring plan?	CDM validation and verification standard for project activities §371	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.14. 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?	CDM validation and verification standard for project activities §366	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.15. 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 PDs for the calculation of emission reductions?	CDM validation and verification standard for project activities §366	DR	The calibration frequency is available in the Section D.2 of 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
D.2.15.1 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	CDM validation and verification standard for project activities §366a	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.15.2 Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment.	CDM validation and verification standard for project activities §366b	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.16. 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?	CDM validation and verification standard for project activities §367	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.16.1 The adjusted measured values of the delayed calibration result in fewer claimed emission reductions?	CDM validation and verification standard for project activities §367a	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.16.2 For all measured values taken during the period between the	CDM validation and verification	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
scheduled date of calibration and the actual date of calibration?	standard for project activities §367b				
D.2.17. If the results of the delayed calibration aren't available, have Pss calculated the emission reductions conservatively?	CDM validation and verification standard for project activities §368	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.18. If the results of the delayed calibration aren't available, have post registration requirements been followed by the PDs?	CDM validation and verification standard for project activities §369	DR	The calibration frequency is available in the Section D.2 of the MR.	OK	OK
D.2.19. 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?	GS4GG-MR-FORM version 1.1	DR	Yes, such information is available.	OK	OK
D.2.20. If the data that are monitored been listed under section D.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, where	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §259	DR	Yes, such information is available.	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
applicable, the applied standardized baseline and the monitoring plan?					
D.2.21. Is a complete set of data available for the specified monitoring period?	CDM validation and verification standard for project activities §373	DR	Yes, such information is available.	OK	OK
D.3. Comparison of monitored parameters with last monitoring period					
D.3.1. In case of community service activities, has the monitored parameters been stated and compared with the previous monitoring period?	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
D.3.2. In case of community service activities, has the short explanation for any values that have increased or are less conservative been provided?	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
D.4. Implementation of sampling plan					
D.4.1. If data and parameters monitored described in section D.2 of the MR are determined by a sampling approach, has the description on how	GS4GG-MR-FORM version 1.1 CDM Standard: Sampling and	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
PDs implemented the sampling for those data and parameters according to the sampling plan been provided?	surveys for CDM project activities and programmes of activities CDM Guideline: Sampling and surveys for CDM project activities and programmes of activities				
D.4.2. If data and parameters monitored described in section D.2 of the MR are determined by a sampling approach, has the following been included?	GS4GG-MR-FORM version 1.1 CDM Standard: Sampling and surveys for CDM project activities and programmes of activities §29 §30 §31 §32 §33 §39	DR	N/A	OK	OK
D.4.2.1 Description of implemented sampling design;	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
D.4.2.2 Collected data (electronic spreadsheets may be attached and referenced);	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
D.4.2.3 Analysis of the collected data;	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
D.4.2.4 Demonstration on whether the required confidence/precision has been met.	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
D.4.2.5 Demonstration that the samples were randomly selected and are representative of the population.	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
E. Calculation of SDG Impacts					
E.1. Calculation of baseline value or estimation of baseline situation of each SDG impact					
E.1.1. Has all the formulae used to calculate the baseline value been provided under section E.1 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.1.2. Has sample calculations for all formulae used and calculation of baseline values been provided under section E.1 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.1.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
E.1.4. Have any assumptions used in baseline calculations been justified?	CDM validation and verification standard for project activities §373d	DR	Yes	OK	OK
E.1.5. If applicable, are the appropriate factors used for the baseline calculations in line with the good guidance practices? (e.g., IPCC default values and other reference values)	CDM validation and verification standard for project activities §373e	DR	Yes	OK	OK
E.2. Calculation of project value or estimation of project situation of each SDG outcome					
E.2.1. Has all the formulae used to calculate the project value been provided under section E.2 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.2.2. Has sample calculations for all formulae used and calculation of project values been provided under section E.2 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.2.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.2.4. Have any assumptions used in project calculations been justified?	CDM validation and verification standard for	DR	Yes	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
	project activities §373d				
E.2.5. If applicable, are the appropriate factors used for the project calculations in line with the good guidance practices? (e.g., IPCC default values and other reference values)	CDM validation and verification standard for project activities §373e	DR	Yes	OK	OK
E.3. Calculation of leakage					
E.3.1. Has all the formulae used to calculate the leakage value been provided under section E.3 of the MR?	GS4GG-MR-FORM version 1.1	DR	The leakage emissions are taken as zero in line with the applied methodology	OK	OK
E.3.2. Has sample calculations for all formulae used and calculation of leakage values been provided under section E.3 of the MR?	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
E.3.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	GS4GG-MR-FORM version 1.1	DR	N/A	OK	OK
E.3.4. Have any assumptions used in leakage calculations been justified?	CDM validation and verification standard for project activities §373d	DR	N/A	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
E.3.5. If applicable, are the appropriate factors used for the leakage calculations in line with the good guidance practices? (e.g., IPCC default values and other reference values)	CDM validation and verification standard for project activities §373e	DR	N/A	OK	OK
E.4. Calculation of net benefits or direct calculation for each SDG impact					
E.4.1. Has all the net benefits as difference of baseline and project values or direct calculations for each SDG outcome provided under section E.4 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.4.2. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.5. Comparison of actual SDG impacts with estimates in approved PDD					
E.5.1. Has a comparison of actual values of the SDG impact of the project achieved during the monitoring period with the estimations in the approved PDD been given under section E.5 of the MR?	GS4GG-MR-FORM version 1.1 CDM project standard for project activities §267	DR	Yes	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
E.5.2. If the comparison of actual values of the SDG outcome of the project achieved during the monitoring period with the estimations in the approved PDD is given under section E.5 of the MR, has this comparison been given using the tabular format provided?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
E.6. Remarks on difference from estimated value in approved PDD					
E.6.1. Has an explanation of the cause of any increase in the actual values achieved during the current monitoring period (e.g. higher water availability, higher load plant factor, etc.), including all information (i.e. data and/or parameters) that is different from that stated in the approved PDD, been provided under section E.6 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
F. Safeguards Reporting					
F.1. Has the report on the safeguarding principles that were available the in monitoring plan been provided including the following?	GS4GG-MR-FORM version 1.1	DR	available	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
F.1.1. An update on the implementation including information on relative success and failures, or improvements to proposed mitigation measures	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
F.1.2. Monitoring and reporting on any key indicators identified, including against pre-set tolerances	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
F.1.3. Information on any assessment questions answered 'potentially' or where requirements call for regular re-assessment	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
G. Stakeholder Inputs and Legal Disputes					
G.1. List all inputs and grievances which have been received via the continuous input and grievance mechanism together with their respective responses/mitigations					
G.1.1. Is the list of all inputs/grievances which have been received for the project during the monitoring period together with their respective answers/actions provided in section G.1 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
G.2. Report on any stakeholder mitigations that were agreed to be monitored					
G.2.1. If there any remaining inputs/grievances from previous monitoring period where follow up action/mitigation measure is to be verified in this monitoring period from the validation and/or previous verification activities, have the PDs addressed these in section G.2 of the MR?	GS4GG-MR-FORM version 1.1	DR	Yes	OK	OK
		DR	Yes	OK	OK
G.3. Provide details of any legal contest that has arisen with the project during the monitoring period					
G.3.1. Has there been any legal contest or dispute that has arisen with the project during the monitoring period and are such details and resolution provided in section G.3 of the MR?	GS4GG-MR-FORM version 1.1	DR	NO	OK	OK

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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 Developers' Response	Verification Team Conclusion
CAR-1 In MR, please refer to the tools used only	A.3	The Section A.3 has been revised accordingly.	Review 1 OK Closed (corrected).
CAR-2 Please delete sentence "The electricity generation is resulted 11 tCO2e for this second monitoring period."	B.1	It has been deleted in Section B.1 of the MR.	Review 1 OK Closed (corrected).
CAR-3 Please refer to GS Issuance Review FAR from MP2 "The PD should ensure that the grievance book is accessible by all. Accessibility of the grievance book by all should be checked by the VVB during the next verification." Please delete FAR from MP1 review	B.1.1	It has been revised as below: FAR # 1 from second verification: The PD should ensure that the grievance book is accessible by all. Accessibility of the grievance book by all should be checked by the VVB during the next verification. PP response # 1 :VVB has checked the grievance book during the on-site visit and also interviewed and confirmed with the stakeholders about the grievance book is accessible by all stakeholders.	Review 1 OK Closed (corrected).
CAR-4 Please correct the number of days calculation in the P1 cell of Corum SPP Excel Spreadsheet.	ITR		Review 1: Ok Closed (Corrected).
CAR-5 Please correct the comparison calculation result in ER Excel, MR and verification report accordingly.	ITR	It has been corrected in ER Excel and MR accordingly.	Review 1: Ok Closed (Corrected).

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

CAR-6 Please correct the monitoring period in the B31 and B60 cells of Corum SPP Excel Spreadsheet.	ITR	The monitoring period has been corrected in the B31 and B60 cells of Corum SPP Excel Spreadsheet.	Review 1: Ok Closed (Corrected).
CAR-7 Please include the monitoring period values in Corum OSF Excel Spreadsheet.	ITR	The second page one is already included the monitoring period values of Corum OSF Excel Spreadsheet.	Review 1: Ok Closed (Included).
CAR-8 Please provide all baseline emission and ER values as an integer value in the Corum SPP Excel Spreadsheet.	ITR	All baseline emission and ER values has been provided as an integer value in the Corum SPP Excel Spreadsheet	Review 1: Ok Closed (Corrected).
CAR-9 Please include the regulation hyperlink for 10 year meter calibration period in MR	ITR	The regulation hyperlink has been included for 10 year meter calibration period in MR	Review 1: Ok Closed (Added).
CAR-10 Please include the reason and justification about why there is no meter test after 2017 in MR	ITR	YEDAS Electricity Authorised Distribution Company do like that for solar unlicensed project.	Review 1: Ok Closed (Explained).
CAR-11 Please clarify if there is any meter change process during the monitoring period in MR	ITR	There is no meter change process during the monitoring period	Review 1: Ok Closed (Explained).
CAR-12 Please provide the final versions of previous verification report and GS performance review document of previous verification.	ITR	The final versions of previous verification report and GS performance review document of previous verification have been already provided to the VVB	Review 1: Ok Closed (Provided).