



VERIFICATION REPORT FOR DENIZLI WIND POWER PROJECT, TURKEY



Document Prepared by Earthood Services Private Limited

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Summary:

Earthood Services Private Limited has been contracted by Korda Enerji Üretim Pazarlama İthalat ve İhracat A.Ş. to perform the second verification of the project “Denizli Wind Power Project, Turkey,” (VCS ID: 1908) with respect to the relevant requirements of VCS programme guidelines and standard.

The project is a greenfield activity which involves electricity generation through the installation of 22 wind turbines of 3.4 MWm/ 3.0 MWe each in Demirli Village, Babadag district of Denizli Province, with some parts of plant lying in the adjacent Karacasu district of Aydın Province, Türkiye. The electricity produced is fed into the grid Tavas TM, thus displacing an equivalent amount of electricity from the grid, which is predominantly fossil fuel based, thereby reducing the GHG emissions.

During the current monitoring period (01-June-2022 to 31-December-2023), the plant has successfully delivered 307,261 MWh of clean energy to the grid, and the emission reduction are calculated as 174,401 tCO₂e.

The scope of the verification includes conformance of the project activity to the monitoring plan in accordance with the registered VCS PD and the monitoring methodology as per ACM0002 Version 19 “Large-scale Consolidated baseline methodology for grid-connected electricity generation from renewable sources” and the requirements as per VCS standard, version 4.6.

The verification of the project activity was undertaken in the following manner:

- Desk/Document review of the project,
- Resolution of outstanding issues,
- The issuance of the final verification report.

During the verification, a total of 05 findings were raised, which included 04 Corrective Action request, 01 Clarification request. No Forward Action request was raised. All the findings have been successfully addressed by the Project Proponent and subsequently closed by the verification team. There are no uncertainties associated with the verification of the project activity and reasonable level of assurance has been obtained.

Earthood Services Private Limited is of the opinion that the project activity is implemented in congruence with the registered VCS PD/1/ and the applied methodology ACM0002 Version 19/6/. The monitoring system in place ensures the emission reductions are calculated without material misstatements and the resulting GHG emission reductions are reported accurately, the assessment team confirms that the emission reductions from the project activity “Denizli Wind Power Project,Turkey” with VCS ID: 1908 during the period 01-June-2022 to 31-December-2023 (including both days) amounts to 174,401 tonnes of CO₂e.

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1 INTRODUCTION

1.1 Objective

Korda Enerji Üretim Pazarlama İthalat ve İhracat A.Ş. (hereafter referred to as “Korda”) has contracted Earthood Services Private Limited (ESPL) to perform first VCS Verification of the “Denizli Wind Power Project, Turkey”, against the requirement of VCS standard version 4.6/8/.

The verifiers have reviewed the GHG data collected for the monitoring period from 01/06/2022 to 31/12/2023 (both days included) covered in this verification. The objective of this verification is a thorough and independent assessment of registered project activities against the applicable VCS requirements. The verification process shall determine whether the project activity complies with the requirements of latest VCS guidelines, applicability conditions of the selected methodology, relevant host country regulations and guidance issued by the VCS Board.

1.2 Scope and Criteria

The verification scope of this assignment is defined as an independent and objective review by the assessment team to establish that.

- The project meets all applicable VCS requirements, including those specified in the VCS standard, relevant methodologies, tools, and guidelines and processing the same with VCS Program Guide.
- Assess the accuracy, conservativeness, relevance, completeness, consistency, and transparency, as well as reliability and credibility of the information provided in the monitoring report.
- Adhere to the principles of independence, ethical conduct, fair presentation, and due professional care in assessment process.

1.3 Level of Assurance

☒ Reasonable level of assurance

☐ Limited level of assurance

Earthood's verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Earthood planned and performed the verification by obtaining evidence and other information and explanations that ESPL considers necessary to give reasonable assurance that reported estimated GHG emission reductions are fairly stated. All documentary evidences were checked, and site visit was conducted to project plant site to arrive at a verification conclusion by the assessment team.

In our opinion, the estimated GHG emissions reductions were calculated correctly on the basis of the approved baseline and monitoring methodology as per ACM0002 Version 19 "Large-scale Consolidated baseline methodology for grid-connected electricity generation from renewable sources" and the requirements as per VCS standard, version 4.6/8/.

The evidence used to achieve a reasonable level of assurance is specified in sections 2.3 and 2.4 of this report

1.4 Summary Description of the Project

The project activity is a wind power project of 3.4 MWm/3 MWe developed by *Korda Enerji Üretim Pazarlama İthalat ve İhracat A.Ş.* (hereafter referred to as "Korda"). The project activity consists of 22 WTGs of 3.4 MWm/3 MWe totaling the total capacity to 74.8 MWm/66 MWe verified through the provisional acceptance certificates/19/, technical specifications/10/and onsite visit/40/. The Project activity involves the electricity generation by the installation and operation of 22 WTGs of Siemens SWT-3.4-108 make, which has been verified through the onsite visit/40/ and provisional acceptance certificates/19/. The power plant is supplying the generated electricity to the grid Tavas TM, thus displacing the electricity that would have otherwise been generated through the fossil fuel-based power plants or by addition of new units in the future, and thereby reducing the associated GHG emissions. The project activity envisaged an estimated net electricity generation of 186,100 MWh per year by the efficient utilization of the available wind energy and thereby leading to a total emission reduction of 105,622 tonnes of CO_{2e}/year. The locations of the turbines as mentioned in the MR has been confirmed through the onsite visit/40/ and through Google Earth/36/ and is found to be valid.

The project is based on the methodology ACM0002, version 19, 'Large-scale consolidated baseline methodology for grid-connected electricity generation from renewable sources'/06/. The project activity was undergoing the second verification, and a description of the verification was also verified in the Registered PD/01/ and Validation report /02/.

The verification team based on the assessment of the EPIAS records/11/, TEIAS records/12/, Provisional acceptances/19/, Meter test Protocol/21/22/, site-photographs/23/, onsite interview/40/ with the PP and the plant personnel was able to confirm that the project activity is fully functional and is implemented in accordance with the description in the registered VCS PD/1/.

The second monitoring period covers the duration from 01-June-2022 to 31-December-2023 (both days included), the net electricity achieved during this monitoring period is 307,261 MWh, and total actual emission reduction achieved by the project activity is verified as 174,401 tonnes of CO₂e.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Korda Enerji Üretim Pazarlama İthalat ve İhracat A.Ş. has appointed the VVB, Earthood Services Private Limited, to carry out the second verification of the project activity “Denizli Wind Power Project, Turkey” (VCS ID: 1908). The monitoring period under verification is from 01-June-2022 to 31-December-2023.

The overall verification was conducted as per the internal quality management procedures, in the following manner.

- Desk review of the VCS Monitoring report and the ER sheet.
- Onsite visit and follow up interviews with the PP and local stakeholders.
- Reporting and closure of findings and preparation of the draft verification report.
- Independent technical review of the draft report and the revised/final documents.
- Issuance of the final verification report.

No sampling plan has been adopted by the verification team as all the data related to the wind power plant was appropriately presented in the MR and ER sheet and was verified by the assessment team.

2.2 Document Review

The verification is performed primarily as a document review of the registered VCS PDD/01/, MR/04/ and associated documents as stated in detail in appendix 1 of this document. The review is performed by the assessment team using dedicated protocols. The assessment team cross-checks the information provided in the documents and information from a source other than those used, if available, and conducts independent background investigations. Earthood conducts a desk review as under:

- A review of the data and information presented to verify their completeness.
- A review of the monitoring plan, the monitoring methodology including applicable tool(s) and, where applicable, the applied standardized baseline, 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.

2.3 Interviews

An onsite audit was conducted for the project activity on 14/03/2024 to verify the implementation of the project activity.

Interviews with the PP representatives were conducted with personnel on site to discuss the aspects of the project implementation such as monitoring plan implemented, the operations at the project site (outages, if any), and other details like calibration of the monitoring equipment used during the current monitoring period, etc. The interviews were conducted in English and Turkish language in presence of the local expert.

The details of the interview are as follows:

S. No.	Name	Affiliation	Topic Covered	Assessment team
1.	Ali Zelvici	WWP Assistant Manger	-Operation and maintenance of facility, Monitoring practices, data collection, data storage, QA/QC - Project implementation, roles, and responsibilities - Calibartion requirements -GHG emission and calculations	Divij Varshney Kubra Agriman
2.	Given Ajtar	Electric Technician		
3.	Arif Gurkan	Service Technician		
4.	Asli Ozcan	Life Climate Assistant Specialist		

			-Ongoing grievance mechanism -Grievance and Feedback	
6	Huseyr Dibel	Village Mukhtar	Awareness of Grievance mechanism, Opinion about implemented project	

2.4 Site Visits

As discussed in the above section, physical site inspection is done for the current verification. Following are the details that were identified during the on-site visit of the project:

On-site audit dates-14/03/2024			
S.no	Activity Performed on-site	Site location	Team member
1.	- Assessment team checked the implementation of the project. - Baseline emissions, emission reduction calculation. - Technical description of the project and monitoring - Assessment team also checked whether the monitoring plan as described in PD is practiced on-site	Demirli Village, Babadağ District, Denizli Province, Türkiye	Divij Varshney Kubra Agriman

A site visit was undertaken by the assessment team on 14/03/2024 to carry out the following:

- An assessment of the implementation and operation of the registered project activity as per registered PD or any approved revised PD/01/.

- A review of information flow of generation, aggregation and reporting the monitoring parameter.
- Interview with relevant personnel to determine whether the operational and data collection procedure is implemented in accordance with the monitoring plan in the PD.
- A cross-check between the information provided in the monitoring report and data from other sources such as EPIAS Records/11/, TEIAS Records/12/, Connection Agreement/20/.
- A check of the monitoring equipment including calibration performance and observation of monitoring practices against the requirements of the PD/01/, the applied methodology including applicable tool and where applicable standardized baseline.
- A review of calculations and assumptions made in determining the GHG data and emission reductions.
- An identification of quality control and quality assurance procedure in place to prevent or identify and correct any errors or emission in the reported monitoring parameters.

It is noteworthy that no sampling plan based on the above assessment it can be concluded that the assessment team has verified sufficient appropriate audit evidence, to reduce audit risk to an acceptably low level as requisite to achieve reasonable level of assurance for the current verification

2.5 Resolution of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and interaction with site personnel over phone. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and non-conformities, which may be of following types.

CAR (Corrective Action Request) is raised if one of the following occurs:

- Non-compliance with the monitoring plan, the methodology or the standardized baseline is found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient.
- Modifications to the implementation, operation and monitoring of the registered project activity have not been sufficiently documented by the project participants.
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the number of emission reductions.

A clarification request (CL) is raised if the information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

All CARs and CLs raised by the ESPL during verification shall be resolved prior to submitting a request for issuance. All the findings that are raised and communicated to project participant during the verification are included under Appendix 3. The section also includes the response, if provided, by the project proponent and an assessment by the verification team if it was closed out or otherwise open.

A total number of 01 CL, 04 CARs and 00 FARs were raised during the current verification and successfully closed.

2.5.1 Forward Action Requests

No FAR was raised during the verification.

2.6 Eligibility for Validation Activities

Not applicable since the validation/verification body has not undertaken validation activities as part of the verification.

3 VALIDATION FINDINGS

3.1 Methodology Deviations

No methodology deviation is identified during the current monitoring period. Therefore, this section is not applicable.

3.2 Project Description Deviations

There are no project description deviation impacts the applicability of the methodology, additionality or the appropriateness of the baseline scenario for this monitoring period.

3.3 New Project Activity Instances in Grouped Projects

Not applicable since the project activity is not a grouped project.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
Audit history	The details of the audit history as described under section 1.2 of the MR have been confirmed from the publicly available information and previous verification reports on the project webpage and is found consistent/07/.
Double counting and participation under other GHG programs	The project is not receiving or seeking credit for reductions and removals from a project activity under another GHG program. This has been verified through the letter of declaration/15/ shared by the PP. Also, secondary research has been carried out by the assessment team in the registries such as CDM, GS, GCC and project is not registered in any other GHG program.
No double claiming with emissions trading programs or binding emission limits	The project reductions and removals or project activities are not included in an emissions trading program or binding emission limit. This has been verified through the letter of declaration/15/ shared by the PP.

No double claiming with other forms of environmental credit	The project activity not sought, received, or is planning to receive credit from another GHG-related environmental credit system. This has been verified through the letter of declaration/15/ shared by the PP.
Supply chain (scope 3) emissions double claiming	The project activities do not affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain.
Sustainable development contributions	The project activity is complying for sustainable development as discussed under section 1.12 of MR. PP has claimed four SDGs under this section namely, SDG 6, 7, 8 and 13. SDG 7.2: Indicator 7.2.1: Renewable energy share in the total final energy consumption: Under this SDG goal, 307,261 MWh during this MP (01-June-2022 to 31-December-2023) renewable electricity was supplied to grid which has been verified through EPIAS Records/11/ and TEIAS Records/12/. ER sheet has also been verified and the calculation is found to be appropriate as per registered VCS PDD/01/. SDG 13.2: Indicator 13.2.2 Total greenhouse gas emissions per year: Under this SDG goal, 174,401 tCO₂ emission reduction during this MP was achieved which was verified through ER sheet/5/. ER sheet has also been verified and the calculation is found to be appropriate as per registered VCS PDD/01/ and applied methodology/05/. SDG 8.5: Number of individuals hired in long-term, full-time positions : 8 employees have been working in the project site during the current monitoring period which were verified through employment social security records/16/. SDG 6.3: 6.3.1 Proportion of Domestic and industrial wastewater flows safely treated: Wastewater transfer invoices regarding the are provided for this MP (01-June-2022 to 31-December-2023) which is also verified using wastewater records/25/.
Additional information relevant to the project	NA

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

This part is not applicable to the project activity. N/A.

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	N/A
Legal or customary tenure/access rights	N/A
Stakeholder diversity and changes over time	N/A
Expected changes in well-being	N/A
Location of stakeholders	N/A
Location of resources	N/A

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	The project proponent has established the on-going communication mechanism with the stakeholders involved, who can reach them in case of any grievances through: Direct communication: A logbook/26/ and contact information of the authorized person from the owner company is available at village head's office so that the local stakeholders can reach these people whenever they have any complaints, suggestions, or ideas about the project. Also, during the on-site visit, local stakeholders were interviewed about the ongoing consultation and grievance mechanism, and it has been confirmed that the locals have knowledge about the same.
Date(s) of stakeholder consultation	Logbook is available since the last monitoring period. During the on-site visit, logbook has been checked and is found to be available in the project site office.

Communication of monitored results	The logbook/26/ and contact information of the authorized person from the owner company is available at village head's office so that the local stakeholders can reach these people whenever they have any complaints, suggestions, or ideas about the project. This information was confirmed by the assessment team during the on-site visit and through interviewing the local stakeholders/40/.
Consultation records	Logbook and declaration
Stakeholder input	No feedback is provided to the logbook. The logbook has been checked and no feedback has been provided by the local stakeholders. During the onsite visit/40/ local stakeholders were interviewed and they have no negative inputs regarding the project activity.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	N/A
Outcome of FPIC discussion	N/A

4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	No grievance received during the current monitoring period. The logbook has been checked and no feedback has been provided by the local stakeholders. During the onsite visit/40/ local stakeholders were interviewed and they have no negative inputs regarding the project activity.
Grievance redress procedure	During the current verification, it was communicated by PP and confirmed by assessment team that there is no grievance registered in the grievance logbook/26/.

	The project proponent has established the on-going communication mechanism with the stakeholders involved, who can reach them in case of any grievances through: Direct communication: A logbook /26/ and contact information of the authorized person from the owner company is available at village head's office so that the local stakeholders can reach these people whenever they have any complaints, suggestions, or ideas about the project. The same has been confirmed by the assessment team during the onsite visit and interviewees with the local stakeholder/40/
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4.2.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A	N/A

4.2.6 Risks to Local Stakeholders and the Environment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Risks to stakeholder participation	No risk identified, the stakeholders were interviewed during the site visit and no negative feedback is received
Working conditions	The interviewed plant site personnel reported no health and safety risks or untoward incidents during the current MP. During the site visit, the working environment of the project site was observed, and the workers were provided with appropriate safety equipment/40/.
Safety of women and girls	The plant does not employ women in operational roles as confirmed during the site visit/40/ and employment records/16/, however no risk is identified
Safety of minority and marginalized groups, including children	No risk identified as observed during the site visit/40/

Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	It was confirmed during the on-site audit/40/ that the operation of the turbine generates only a minimal amount of noise., which was also confirmed during the interviews conducted with the local stakeholder. During the on-site visit, it was also observed that the water discharge was segregated and sent to authorised waste handlers to treat it accordingly. This was confirmed by the wastewater invoices /25/ provided by the PP for wastewater discharge treatment.
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4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination and sexual harassment	No discrimination or sexual harassment has occurred.
Management experience	The management is an experienced one with years of expertise.
Gender equity in labor and work	No women has been found to be working in the power plant during the on-site visit. However, women participants are encouraged and equal opportunity has been provided as confirmed during the on-site visit.
Human trafficking, forced labor, and child labor	It has been confirmed during the onsite visit/40/ that project activity does not use victims of human trafficking, forced labor, and child labor.

4.2.7.2 Human Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Human rights	The project activity is a grid connected wind power plant and is in compliance with the international human rights, the United Nations declaration on the rights of Indigenous Peoples and ILO Convention 169.

4.2.7.3 Indigenous Peoples and Cultural Heritage

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Preservation and protection of cultural heritage	There are no cultural heritage or sensitive communities at or near the project site.

4.2.7.4 Property Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	N/A
Respect for property rights	N/A

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	It has been conformed through the interviews with the local stakeholders that No demand was made by stakeholders regarding the project activity or other matters.
Benefit sharing during the monitoring period	N/A

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	No negative impact identified on biodiversity and ecosystem as confirmed through the PP declaration, VVB has also confirmed the same through the

	interviews with the site personnels/40/. Also, no bird carcasses have been observed during the on-site visit near the project site.
Soil degradation and soil erosion	N/A
Water consumption and stress	N/A
Usage of fertilizers	N/A

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	No negative impact identified on biodiversity and ecosystem as confirmed through the Ornithology Report/38/, VVB has also confirmed the same through the interviews with the site personnels/40/. Also, no bird carcasses have been observed during the on-site visit near the project site,

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	N/A

4.3 Accuracy of Reduction and Removal Calculations

The project monitoring has been carried in accordance with the registered VCS PD/01/. The monitoring plan laid in the registered PD/01/ is being followed at the site. The assessment team has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) in the MR/04/.

The emission reductions are based on the generation of renewable energy (wind power plant) by the project activity.

- The emission reduction calculation is accurate from the point of data collection, transfer and the formulas applied are in accordance with the applied methodology/6/and the registered PD/1/.
- The emission reduction calculations have been followed in accordance with the registered PD/1/ and applied methodology/6/.
- The default values applied for calculations were consistent with the registered PD/1/.
- The data transfer from the monthly generation sheets/11/ to final emission reduction calculation sheet/5/ has been transparently described and followed. The final values are reproducible, and all the calculation are linked and clearly presented in the emission reduction calculation sheet/5/.

The calculation of the emission reduction is found to be correct, as verified through the ER sheet/05/. The calculation method and formulae used in calculating baseline emission, project emission and leakage emission are found to be appropriate and is in compliance to the applied methodology. The assessment team is of the opinion that the monitoring for the concerned period is done in accordance with the procedures laid in the registered documents and the resulting emission reductions are measurable and conservative.

The tables given below describe how each parameter has been verified to confirm that the actual monitoring complies with the monitoring plan fixed ex-ante, as well as the monitored data has been thoroughly assessed. No sampling has been conducted for the project activity, since all the data and parameters has been verified by the VVB.

Data and parameter fixed ex-ante

Means of verification	Data/Parameter		VVB assessment	
	EGy: Net electricity generated by power plant/unit m, k, or n (or in the project electricity system in case of EGy) in year y or hour h		PP has applied the value of net electricity generated using official data published by TEIAS/31/ for all the power plants in turkey the value are correctly reflected under table 13, 14 and 15 of the PD/01/, the value are fixed ex-ante and are found to be consistent in the MR/4/.	

	HV _{i,y} : Heating Values of fuels consumed for electricity generation in the years of 2015, 2016 and 2017	The official data by the national authority TEIAS/32/ is used by the PP and is found to be consistent with PD/1/.
	FC _{i,y} : Amount of fuel type i consumed in the project electricity system in year y	The official data by the national authority TEIAS/33/ is used by the PP and is found to be consistent with the PD/1/.
	NCV _{i,y} : Net Calorific Value of fuel types in the years of 2015, 2016 and 2017	There is no official source in turkey for the Net Calorific Value of fuel types, therefore value is calculated ex-ante using HV _{i,y} to FC _{i,y} , and the value in the MR is consistent with the table 7 and 8 of the ER ex-ante sheet /1/.
	Sample Group for BM emission factor	Energy Investments, Ministry of Energy and Natural Sources/34/ is the source of data fixed ante for determining the sample group, the source is correctly reflected in the MR/4/.
	EFCO _{2 i,y} : CO ₂ emission factor of fossil fuel type i in year y	PP has applied the IPCC default value using 95% confidence interval, the value mentioned in the MR/4/ and ER/5/ is found to be consistent with the PD/1/.
	$\eta_{m,y}$: Average energy conversion efficiency of power unit m in year y	PP has applied the default value using tool 09 v.2.0 /35/. The value is fixed ex-ante and is found to be consistently mentioned in the MR/4/.
Findings	No findings were raised.	
Conclusion	The ex-ante parameters mentioned in the MR/4/ are cross-checked with the registered VCS PD/1/ and are found to be consistent.	

Data/Parameter monitored:

Parameter	EG _{m,y} (MWh/yr) Quantity of net electricity generation supplied to the grid in year y	
Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	The parameter is monitored continuously and recorded monthly for the calculation of actual GHG Emission Reductions.

	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency is in line with the monitoring plan as set out in VCS PD/1/ and the monitoring methodology/6/.				
	Monitoring equipment	Name	Serial No.	Brand Model	Accuracy Class	Calibration Date
		Main Meter	84051056	ITRON & SL761W07	0.2S	13/09/2019
		Main Meter	84051121	ITRON & SL761W07	0.2S	13/09/2019
		Back-Up	84051120	ITRON & SL761W07	0.2S	13/09/2019
		Back-Up	84051122	ITRON & SL761W07	0.2S	13/09/2019
		Electricity meters of following specifications are installed. The details of the meter were verified during the onsite visit and through the pictures of meters with geo- location/23/ which has been cross verified through the calibration certificates/21/22 /.				
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply	According to the Article 11 of the Communiqué of Meters in Electricity Sector ¹ : meters shall be in class of 0.5s. The meter installed are of 0.2s accuracy class, the same is verified from the first index protocol/22/ and during the onsite/40/which and are therefore found compliant as per the national regulations.				

	with local/national standards, or as per the manufacturer's specification?	
	Calibration frequency /interval:	Periodic calibration is undertaken once in 10 years

	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes. Period calibration is to be conducted every 10 years. The first meter index protocol was carried out on 13/09/2019/22/, therefore no calibration was required during this monitoring period. In accordance with the registered PD/1/, the national authority TEIAS carries out periodic tests every 2 years as per system usage agreement. The meter test protocol corresponding to this monitoring period was conducted on: 10/06/2021 and 02/06/2023/21/. Therefore, it is noted that no gap is observed in the calibration requirements of the meters.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	There was no calibration requirement during the current monitoring period, however the periodic meter test protocol/21/ was conducted by TEIAS, which is the national electricity transmission company.
	Is(are) calibration(s) valid for the whole reporting period?	Yes
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Not applicable since no calibration was conducted during the current Monitoring period.
	How were the values in the monitoring report verified?	The cumulative values of EGm,y for the entire monitoring period is reported in the MR/4/ is 307,261 MWh, and the monthly values are reported in the ER calculation sheet/5/. These values are checked from the EPIAS Records/11/ and cross-checked with TEIAS reciprocal agreement meter records/12/. The ER /5/ sheet was checked for application of formula, arithmetic consistency, faithful reproduction of data from the EPIAS records, and accordingly data was accepted as reliable.
	If applicable, has the reported data been cross-checked with other available data?	The main data source is the EPIAS data which is cross-checked with TEIAS reciprocal agreement meter records.

	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, adequate QA/QC procedures are implemented by the PP, the same has been verified during the onsite audit through interview with the personnel responsible for maintaining data records. Meter is read by Denizli WPP staff monthly as well as the meter is read remotely at the end of every month and published through website of TEİAŞ, and the cross-check is conducted monthly.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	No such issues were identified during the current monitoring period.
Findings	CAR 01 was raised and resolved	
Conclusion	The parameter has been monitored appropriately, in accordance with the registered monitoring plan/01/ (as per measurement methods and procedures to be applied) and applied methodology/06/. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. The emission reduction calculation for the project activity is estimated based on the electricity generated by WTGs. Since 100% data was verified, the team can ascertain that the values taken for emission reduction calculation are free from material errors.	

4.4 Quality of Evidence to Determine Reductions and Removals

The emission reduction calculations for this verification were verified against the monthly EPIAS Records/11/ and TEİAS records/12/ and were found to be reliable and appropriate. The information was also cross checked through the interviews conducted and observations made during the onsite visit/40/ conducted by the assessment team.

Calculation of Baseline Emissions:

In accordance with the applied methodology ACM0002/06/, the baseline emissions are the CO₂ emissions from the electricity generation from the fossil fuel fired power plant that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the additions of new grid- connected power plants.

The baseline emissions are calculated as follows:

$$BE_y = (EG_y - EG_{baseline}) \times EF_{grid,CM,y}$$

Where:

BE_y = Baseline emissions in year y (tCO₂/yr).

EG_y = Electricity supplied by the project activity to the grid (MWh).

$EG_{baseline}$ = Baseline electricity supplied to the grid in the case of modified or retrofit facilities (MWh). For new power plants this value is taken as zero.

$EF_{grid,CM,y}$ = 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 (v6)”.

The project activity is the installation of a new grid-connected renewable power plant so,

$$EG_{baseline} = 0$$

i. Calculation of project emissions

In accordance with the applied methodology/06/, for most renewable power generation project activities, $PE_y = 0$. Since the project activities is a wind and solar energy-based power generation, the project emissions are not applicable to the project activity.

Hence, $PE_y = 0$

ii. Calculation of Leakage Emissions

In accordance with the applied methodology/06/, no leakage emissions are considered. The main emission potentially giving rise to leakage in the context of projects in power sector are emissions due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, and transportation). These emission sources are neglected.

Therefore, $LE_y = 0$.

iii. Calculation of net emission reduction or removal

The emission reduction as per the applied methodology /09/ equals the baseline emissions (project emissions and leakage emissions for such project activities is considered zero). The formula provided for the calculation of baseline emissions is:

$$BE_y = EG_y \times EF_{grid,CM,y}$$

$$BE_y = 307,261 \text{ MWh} \times 0.5676$$

$$= 174,401 \text{ tCO}_2$$

The Combined margin CO₂ emissions factor in year y (tCO₂/MWh), EF_{grid,CM,y}, is fixed ex-ante for the duration of the crediting period, and is 0.5676 tCO_{2e}/MWh. The values of the grid emission factor has been verified through the registered VCS PD/01/ and the Turkish grid emission factor datasheet, which has been published by the government of Türkiye and hence, found to be appropriate. The emission factor has been validated at the time of registration and will be fixed for the entire crediting period.

The emission reduction has been calculated based on formula:

$$ER_y = BE_y - PE_y - LE_y$$

$$\text{Project emission, } PE_y = 0$$

$$\text{Project leakage, } LE_y = 0$$

$$\text{Thus, } ER_y = BE_y = 174,401 \text{ tCO}_2$$

The assessment team confirms that appropriate methods and formulae for calculating baseline emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified. The actual emission reduction achieved during the current monitoring period is 174,401 tCO₂ which is higher than the estimated amount of emission reductions at the time of validation, i.e., 167,548 tCO₂, thus CL 02 was raised. The turbines will be permitted to generate at their maximum capacity, i.e., 3.4 MW_m, from June 12, 2022. This is clear from the TEİAŞ decision (10971)/24/, which is given as evidence. Since this practice was adopted for a limited amount of time due to the energy deficit prevailing over the country and doesn't impact the project's production capacity, it was found to be feasible. Hence, the estimated ERs are lower than the actual emission reduction. Therefore the 4% increase in the Emission reduction achieved was found to be acceptable.

4.5 Non-Permanence Risk Analysis

Not applicable for the project activity.

5 VERIFICATION OPINION

5.1 Verification Summary

Earthood Services Private Limited (ESPL) contracted by Korda Enerji Üretim Pazarlama İthalat ve İhracat A.Ş. has performed the independent verification of the emission reduction for the VCS project activity (VCS ID 1908) “Denizli Wind Power Project, Turkey”, for the monitoring period 01/06/2022 – 31/12/2023 (including both days) as reported in the Monitoring Report Version 03 dated 08/04/2024. The Korda Enerji Üretim Pazarlama İthalat ve İhracat A.Ş. is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity. ESPL commenced the verification on the basis of the baseline and monitoring methodology ACM0002 Version 19/6/, the monitoring plan contained in the registered VCS PD/1/ and MR/4/.

In our opinion the GHG emissions reductions reported for the project activity for the period 01/06/2022 – 31/12/2023 are fairly stated in the Monitoring Report version 03 dated 08/04/2024. The GHG emission reductions were calculated correctly based on the approved baseline and monitoring methodology ACM0002 Version 19/6/, VCS standard version 4.6/8/.

5.2 Verification Conclusion

ESPL verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. ESPL planned and performed the verification by obtaining evidence and other information and explanations that ESPL considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 01/06/2022 – 31/12/2023 are fairly stated in the Monitoring Report version 03 dated 08/04/2024. The GHG emission reductions were calculated correctly based on the approved baseline and monitoring methodology ACM0002 Version 19/6/ and VCS standard version 4.6/8/.

Verification period: From 01-June-2022 to 31-December-2023 (including both days)

Verified GHG emission reductions and carbon dioxide removals in the above verification period

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCUs (tCO ₂ e)	Removal VCUs (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-Jun-2022 to 31-Dec-2022	63,856	0	0	63,856	0	63,856
01-Jan-2023 to 31-Dec-2023	110,545	0	0	110,545	0	110,545
Total	174,401	0	0	174,401	0	174,401

The non-permanence risk rating (%)	N/A
If applicable, the Long-term Average (LTA), whether it has been properly updated, and if it has been reached.	N/A
Whether a loss has been appropriately accounted for, in accordance with the VCS Program rules, if applicable.	N/A

ii) Complete the table below:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	Reductions VCUs (tCO ₂ e)	Removals VCUs (tCO ₂ e)	Total VCU issuance (tCO ₂ e)
01-Jun-2022 to 31-Dec-2022	NA	NA	NA	NA	NA	NA	NA
01-Jan-2023 to 31-Dec-2023	NA	NA	NA	NA	NA	NA	NA
Total	NA	NA	NA	NA	NA	NA	NA

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-Jun-2022 to 31-Dec-2022	61,926	63,856	3%	During the assessment of the current monitoring period, overproduction of the electricity generated was observed. This decision was made by the government of Turkey because of the country's energy deficit. To fulfil the country's energy demand, TEIAS allowed the power plants to use the full mechanical capacity i.e., 3.4 MW _m . This was confirmed by the TEIAS decision (10971)/24/. The practice was available for a limited amount of time and was regulated by the host country's government. Nevertheless, the Denizli WPP was only generated in line with its mechanical capacity, with an overall difference was 4%.
01-Jan-2023 to 31-Dec-2023	105,622	110,545	5%	
Total	167,548	174,401	4%	

Approved By:



Kaviraj Singh

Managing Director

Earthood Services Private Limited

Date: 08/04/2024

Place: Gurgaon, Haryana

APPENDIX 1: DOCUMENT REFERENCES

S.No	Title of Document	Version	Date
1.	Registered VCS PD (Revised version available at VCS registry webpage) ER Sheet Ex-ante	Version 06	13/10/2021 (date of final issue)
2.	VCS Validation Report,	Version 04	17/12/2021 Date of First Issue: 08/08/2019
3.	VCS Monitoring Report	Version 01	Dated:02/02/2024
4.	VCS Monitoring Report (Final)	Version 03	Dated: 08/04/2024
5.	ER spread sheet (corresponding to the final monitoring report)	-	Pertaining to latest MR
6.	"Large- Scale Consolidated baseline methodology for grid-connected electricity generation from renewable sources," ACM0002,	Version 19	-
7.	VCS webpage for the project, VCS ID 1908. https://registry.verra.org/app/projectDetail/VCS/1908	-	-
8.	VCS Standard	Version 4.6	21/03/2024
9.	VCS Program Guide	Version 4.2	10/09/2019
10.	Technical specification of turbines	SWT-3.4-108	-
11.	EPIAS records	-	01/06/2022 – 31/12/2023
12.	TEIAS records	-	01/06/2022 – 31/12/2023
13.	TEIAS mechanical power permission statement	-	12/05/2022
14.	EIA not required certificate	ID:1331712	15/07/2011
15.	No double counting declaration	-	-
16.	Employment social security records	-	Various
17.	Site related wind potential and energy yield assessment at Babadag site (Denizli, Turkey)	-	30/03/2018
18.	EPDK generation licence	-	18/08/2011
19.	Provisional acceptance certificates	ID:4666695 ID:466704	10/10/2019 13/09/2019
20.	TEIAS revised connection agreement	-	17/05/2019
21.	Meter test protocol	-	10/06/2021 & 02/06/2023

22.	First index protocol	-	13/09/2019
23.	Site photos of Denizli WPP	-	-
24.	TEIAS Decision (10971)	-	12/05/2022
25.	Wastewater records	-	01/06/2022 – 31/12/2023
26.	Grievance logbook photos	-	-
27.	Grievance mechanism photos	-	-
28.	Biodiversity training attendance sheet	-	24/06/2021
29.	HSE Training certificates and others	-	2020-21 2021-22
30.	Environment waste and other elements training attendance sheet and photographs	-	24/06/2021
31.	Annual Development of Turkey's Gross Electricity Generation by Primary Energy Sources (2000-2017) TEIAS https://www.teias.gov.tr/tr-TR/turkiye-elektrik-uretim-iletim-istatistikleri or https://webapi.teias.gov.tr/file/09f91243-aa67-48ec-b092-86f9a18f04cc?download	-	-
32.	Heating Values of Fuels Consumed in Thermal Power Plants in Turkey by The Electric Utilities, TEİAŞ https://webapi.teias.gov.tr/file/780b9f4b-7e97-4e64-a264-20669a820b79?download	-	-
33.	Heating Values of Fuels Consumed in Thermal Power Plants in Turkey by The Electric Utilities, TEİAŞ. See: https://webapi.teias.gov.tr/file/780b9f4b-7e97-4e64-a264-20669a820b79?download	-	-
34.	Energy Investments, Ministry of Energy and Natural Sources: https://enerji.gov.tr/eigm-raporlari	-	-
35.	Tool 09: Determining the baseline efficiency of thermal or electric energy generation systems https://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-09-v2.0.pdf	Version 02.0	-
36.	Google earth https://earth.google.com/web/search/Babada%c4%9f,+Karaa%c4%9fa%c3%a7,+Fethiye%2fMu%c4%9fla,+Turkey/@36.53103963,29.1797624,1928.14502861a,170.59196382d,35y,170.27603654h,44.97377674t,360r/data=CigiJgokCTTv6vw8GkJAEY9w6DhtGUJAGcaqVIEFUJAISsa30QgEOJA	-	-
37.	Declaration letter from Atakoy neighborhood on no net harms and road condition	-	25/06/2020 19/06/2021
38.	Ornithology Report		01.02.2024
39.	Training records	-	For the current MP
40.	Earthhood Site Visit	-	14/03/2024

APPENDIX 2: ABBREVIATIONS

Abbreviations	Full texts
ABT	Availability Based Tariff
BEF	Baseline Emission Factor
BM	Build Margin
CAR	Corrective Action Request
CL	Clarification Request
CMS	Central Monitoring System
CMP	Conference of Parties Serving as Meeting of Parties
CO2	Carbon dioxide
EB	Executive Board
EPC	Engineering, Procurement and Construction
EPIAS	Enerji Piyasaları İşletme A.Ş.
FAR	Forward Action Request
GHG	Green House Gas
ISO	International Standards Organization
kW	Kilowatt
kWh	Kilowatt hour
MEDA	Maharashtra Energy Development Agency
MFR	Multi-Function Relay
MR	Monitoring Report
MW	Megawatt
MWh	Megawatt-hour
NEWNE	Northern Eastern Western Northern-Eastern
O&M	Operation and Maintenance

PD	Project Description
PLF	Plant Load Factor
PP	Project Proponent
PPA	Power Purchase Agreement
QA/QC	Quality Assurance and Quality Control
TEIAS	Turkish Electricity Transmission Corporation
TOD	Time of the Day

APPENDIX 3: FINDINGS OVERVIEW

Table 1. Remaining FAR from validation and/or previous verification

FAR ID	xx	Section no.	Date : DD/MM/YYYY
Description of FAR			
Project participant response			Date : DD/MM/YYYY
Documentation provided by project participant			
DOE assessment			Date: DD/MM/YYYY

e.g., There is no finding from validation /XX/ or previous verification report/XX/.

Table 2. CL from this verification

CL ID	01	Section no.	5.4	Date : 05/03/2024
Description of CL				
In section 5.4, It has been observed that the actual emission reduction is greater than the ex-ante estimated emission reduction. PP is requested to provide a detailed explanation of the percent difference between the achieved reductions and the ex-ante estimated reductions for the entire monitoring period.				
Project participant response				Date : 19/03/2024
The necessary explanations are provided under Section 5.4. Supporting documentation are submitted.				
Documentation provided by project participant				
TEIAS Capacity 22-23.pdf, Example increase.pdf, VCS-Monitoring-Report-Denizli_AO_v2_TC				
DOE assessment				Date: 22/03/2024
PP has updated the section 5.4 with the detailed explanation of the increase in emission reduction for the current monitoring period. The VVB has assessed all the documents and confirmed that between 12/06/2022 and 30/09/2023 under TEIAS decision (10971) there is evidence to the fact that the wind power plants were allowed to utilize the full mechanical capacity for the power generation. PP has also utilized the same. Hence, the estimated ERs are lower than the actual emission reduction. Hence, the information provided is found to be sufficient to close the finding.				
Thus, CL#01 is CLOSED.				

Table 3. CAR from this verification

CAR ID	01	Section no.	4.2	Date : 05/03/2024
Description of CAR				
In section 4.2, parameter 'EG _{m,y} ', PP is requested to correct the calibration date of the main meter (serial number 84051056, Brand & Model – ITRON & SL761W071, Accuracy Class – 0.2S).				
Project participant response				Date : 19/03/2024
The clerical error in that section has been corrected.				
Documentation provided by project participant				
VCS-Monitoring-Report-Denizli_AO_v2_TC				
DOE assessment				Date: 22/03/2024

The revised MR has been reviewed. PP has revised the calibration date in section 4.2 of the MR. The date is now found to be consistent with the calibration certificates, and hence found to be appropriate.

Thus, CAR#01 is CLOSED.

CAR ID	02	Section no.	4.2	Date : 05/03/2024
Description of CAR				
Following observations has been made in section 1 of the MR:				
1. Section 1.2 'Audit History', PP is requested to include the period of this verification as per template guidelines. 2. Section 1.2 'Audit History', The start date is found to be inconsistent with the registered PDD. 3. Section 1.6 'Project Start date', The start date is found to be inconsistent with the registered PDD. 4. Section 1.12, table 1: Sustainable Development Contributions, column 'Contributions over project lifetime', PP is requested to write the overall contribution from the start of the crediting period as per template guidelines.				
Project participant response				Date : 19/03/2024
1. This verification's details are added. 2. Start dates are now consistent with the registered PDD and the previous monitoring report. 3. The start date is corrected. 4. The section has been revised in line with the finding.				
Documentation provided by project participant				
VCS-Monitoring-Report-Denizli_AO_v2_TC				
DOE assessment				Date: 22/03/2024
1. VVB has assessed the updated monitoring report and confirmed that the verification period has been added in the section 1.2 and is found to be appropriate. CLOSED 2. VVB has assessed the section 1.2 of the MR and confirmed that the start date has been made consistent with the registered PDD in the section 1.2. CLOSED 3. VVB has assessed the section 1.2 of the MR and confirmed that the start date has been made consistent with the registered PDD. CLOSED 4. VVB has confirmed that the column "Contributions over project lifetime" has been updated in the section 1.12 table 1 with correct justification. CLOSED				
Thus, CAR#02 is CLOSED.				

CAR ID	03	Section no.	4.2	Date : 05/03/2024
Description of CAR				
In section 5.1 of the VCS PDD, potentially negative indicators have been identified for the project. PP is requested to add the potentially negative indicators in section 2.2 of the VCS MR and provide mitigation or preventative measures taken against them as per the template guidelines.				
Project participant response				Date : 19/03/2024
The identified risks mainly were due to the construction phase of the project and these were verified during the first verification, as mentioned in the PDD. The only remaining risk identified for stakeholders is regarding wastewater discharge and this is already being monitored. This parameter is now added to the table. The other risk regarding biodiversity is also being monitored and is mentioned under Section 2.4.				
Documentation provided by project participant				
VCS-Monitoring-Report-Denizli_AO_v2_TC				
DOE assessment				Date: 22/03/2024

The risks identified in the VCS PD has been assessed and most of the risks are related to the construction phase. It has been verified during the on-site visit that there no construction activity ongoing in the power plant and is fully operational. Hence, the justification provided by the PP is found to be appropriate. The risks related to the wastewater has now been added under the section 2.2 of the MR. It is evident during the site visit that the waste generated (Hazardous and non-hazardous waste) has been stored separately as per the category of the waste. Also, the evidence of the proper disposal of the waste (invoices, disposal license of the companies) has been checked during the site visit and shared by the PP and is found to be appropriate. Also, PP has prepared the ortinolgy report by an external expert, and it is clear that proper measures has been taken by the PP for the biodiversity and is found to be appropriate.

Hence, CAR#03 is CLOSED.

CAR ID	04	Section no.		Date : 18/03/2024
Description of CAR				
During the site visit, it has been observed that regular testing of the meters is conducted every 2 years by the TEIAS. However, in Table 4 under section 3.1, the last testing certificate mentioned is 10/06/2021. PP is requested to update Table 6 under Section 3.1 and provide the latest meter testing certificates.				
Project participant response				Date : 19/03/2024
Table 6 under Section 3.1 has been updated.				
Documentation provided by project participant				
02.06.2023 TEİAŞ SAYAÇ TESTİ.pdf, VCS-Monitoring-Report-Denizli_AO_v2_TC				
DOE assessment				Date: 22/03/2024
VVB has assessed the provided documents and confirmed through the latest meter testing date in the monitoring report as well as test protocols of meters are found to be consistent that is 02/06/2023.				
Thus, CAR#04 is CLOSED.				

Table 4. FAR from this verification

FAR ID	xx	Section No.		Date : DD/MM/YYYY
Description of FAR				
Project participant response				Date : DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

e.g., there is no FAR from this verification.

APPENDIX 4: COMPETENCY STATEMENTS

Competence Statement			
Name	Divij Varshney		
Education	M.Tech. Renewable energy systems B.Tech. Electrical Engineering		
Experience	1.5 years		
Field	Climate Change & Environment / Industry		
Approved Roles			
Team Leader	Yes (VM)		
Validator	Yes (VM)		
Verifier	Yes (VM)		
Local expert	Yes (India)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	Yes (VM TA 1.2, 3.1)		
Reviewed by	Shifali Guleria, Quality Manager	Date	18/09/2023
Approved by	Deepika Mahala, Technical Manager	Date	18/09/2023

Competence Statement	
Name	Anurag Verma
Education	M.Tech (ESN Programme) B.E (Mechanical Engineering)
Experience	-
Field	Climate Change & Environment

Approved Roles			
Team Leader	NO		
Validator	NO		
Verifier	NO		
Methodology Expert	NO		
Local expert	NO		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	NO		
Trainee	YES		
Reviewed by	Shifali Guleria (Quality Manager)	Date	04/01/2024
Approved by	Deepika Mahala (Technical Manager)	Date	04/01/2024

Competence Statement	
Name	Kubra Agriman
Education	BS Environmental Engineering
Experience	2 years
Field	Environmental Engineering
Approved Roles	
Team Leader	NO
Validator	NO
Verifier	NO
Methodology Expert	NO

Local expert	Yes (Turkey)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	NO		
Trainee	Yes		
Reviewed by	Shifali Guleria, Quality Manager	Date	27/12/2022
Approved by	Deepika Mahala, Technical Manager	Date	27/12/2022

Competence Statement	
Name	Ashok Gautam
Country	India
Education	M. Sc. (Environmental Sciences) M. Tech. (Energy & Environmental Management)
Experience	16 Years +
Field	Energy, Climate Change & Environment
Approved Roles	
Team Leader	YES
Validator	YES
Verifier	YES
Methodology Expert	AMS-I.D., AMS-I.A., AMS-I.C., AMS-I.E, AMS-II.D., AMS-II.G., AMS-III.E., AMS-III.H., AMS-III.Q, AMS-III.Z., AMS-III.AV., AMS III.AR, AM0029, AM0025, AM0056, ACM0001, ACM0002, ACM0004, ACM0012, ACM0006, AM0018, ACM0017, ACM0009, AM0034, AMS.I.B, ACM0016, AMS-III.BL, AMS-II.L, AMS-I.I., AMS-III.A.O., ACM0010, ACM0025
Local expert	YES (India)

Financial Expert	YES		
Technical Reviewer	YES		
TA Expert	YES (TA 1.1, TA 1.2, TA 3.1, TA 13.1)		
Reviewed by	Shifali Guleria	Date	06/03/2023
Approved by	Deepika Mahala	Date	06/03/2023

APPENDIX 5: COMMERCIALY SENSITIVE INFORMATION

No commercially sensitive information has been provided.

