

GS4GG Verification (Performance) Certification Report



VKU Certification Pvt. Ltd.

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Project Title
West Bakr Wind Farm Project
Registry Project ID: 7739
Monitoring Period: 01/01/2023 – 31/12/2023 (both dates included)
For
First Climate Markets AG and Infinite Environmental Solutions Limited
VKU Project Reference No.
VKU.VER.24.24_GS_7739

Executive Summary:

A) Basic information		
Project Title	West Bakr Wind Farm Project	
GS4GG Project ID:	7739	
Date of Project Design Certification	28/07/2022	
Last Date of Annual Report	13/12/2022	
VKU Project Reference No.	VKU.VER.24.24_GS_7739	
Sectoral scope	Scope: 01 Energy Industries (renewable- and non-renewable sources)	
Methodology/ies applied	ACM0002: Grid-connected electricity generation from renewable sources- Version 20.0	
Technical Area (TA)	T.A. 1.2	
Project Representative	First Climate Markets AG	
Project Developer	Lekela Egypt Wind Power BOO (S.A.E.)	
GS4GG Activity Requirements	Renewable Energy Activity	
GS4GG Certified Product	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A	
Selected Sustainable Development Goals	SDG 7 - Affordable and Clean Energy SDG 8 - Decent Work and Economic Growth SDG 13 -Climate Action (Mandatory)	
GS4GG SDG Impact Statement	SDG 7 –1,045,446 MWh SDG 8 - Trainings- 07 No. of trainings Employees- 18 No. of Employees Income (E£): 3,130,521 (Cumulative income of all workers) SDG 13 – 464,178 tCO2e	
Scale of Project Activity	Large Scale	
B) Verification		
Start date of crediting period	13/11/2021	
End date of crediting period	12/11/2026	
Monitoring Period	01/01/2023 to 31/12/2023 (both dates included)	
C) Monitoring report	Version	Date
Initial	01	16/01/2024
	02	05/02/2024
	03	28/02/2024
Final	04	06/05/2024
D) Performance Certification report	Version	Date
Initial	1.0	09/02/2024
	1.1	07/03/2024
Final	1.2	08/05/2024



E) Verification Team	
Team Leader ¹	Barun Kumar
Technical Expert (TA 1.2)	Barun Kumar
Validator/Verifier	NA
Validator/Verifier- Trainee	Aastha Verma
Project Trainee	Megha Modi
Local Expert (Egypt)	Ola Abdalla
F) Approvals	
Technical Reviewer ²	Sanjay Kumar K
Technical Expert (TA 1.2)	Sanjay Kumar K
G) Final opinion	
VKU Certification has performed the 2nd verification (1st Crediting Period) of the GS4GG project “West Bakr Wind Farm Project” and GS4GG Ref. number 7739. As described in the report from sections 1 to 3, VKU has performed the entire verification according to the verification criteria and their GHG emission reductions or removals set out in GS4GG Validation and Verification Standard Version 1.0 /5.1/. The project participant of the “West Bakr Wind Farm Project” are responsible for: • The preparation of greenhouses gas emissions data and the reported greenhouse gas emission reductions for the project on the basis set out in the monitoring plan contained in the registered GS4GG PDD version 06 of 31/10/2022 /12/. • The development and maintenance of records and reporting procedures are following that plan, including the calculation and determination of greenhouse gas emission reductions of the project. The verification includes confirmation about the implementation of the monitoring plan mentioned in the PDD/12/ and the application of the monitoring methodology as per most applicable methodology: ACM0002: Grid-connected electricity generation from renewable sources - Version 20.0/11.1/. VKU Certification which is an approved ISO 14064-3:2019/8.2/ accredited Validation/Verification Body affirms that the monitoring system is in place along with the emission reductions are calculated without material misstatements and all the supporting documents including but not limited to ER Sheet /15/, PPA /23/, O & M Agreement /24/, O&M Logs/25/, commissioning certificates /16/, calibration certificates /26/, JMRs /22/, invoices /27/, training records/19/, employment records /20/, Climatic conditions records/29/, etc. were checked. VKU’s verification approach is based on understanding the risks associated with reporting, analysing the data associated with GHG emission calculations to mitigate any sort of material misstatements. VKU planned and performed the verification by adopting an evidence-based	

¹ Team Leader is an approved GS Auditor for VKU.

² Technical Reviewer is an approved GS Auditor for VKU.

approach to rely on different sorts of data, other information, and explanations. VKU assures to provide a Reasonable level of assurance that reported GHG emission reductions are fairly stated and correctly calculated. It is VKU's opinion that the GHG emission reduction stated in the final monitoring report /14/ for the "West Bakr Wind Farm Project" for the current monitoring period is fairly stated. The emission reductions from the GS4GG project activity ID 7739 during the period **01/01/2023 to 31/12/2023 (both dates included)** amount to **464,178 tCO₂e** (SDG 13).

The assessment team meticulously followed a number of steps prescribed in the ISO standard 14064-3 /8.2/ to reach the conclusion, starting with Strategic Analysis/42/, followed by Risk Assessment/37/, and the development of an Evidence Gathering plan/40/. Subsequently, the team diligently executed the planned activities to collect the necessary evidence. To ensure a comprehensive planned evaluation, an Audit plan/37/ was prepared before the actual site visit, and an Onsite visit was conducted accordingly. Onsite activities were carried out following the pre-established Evidence Gathering plan/40/. Following the onsite inspection /38/, post-site evaluation was conducted adhering to verification values which involved scrutinizing supporting documents, and verifying the claims of Monitoring Reports (MR) /14/, along with calculations of Emission Reports (ER) /15/.

The final report prepared after following the previously mentioned procedure follows an Independent Technical review by an experienced Technical Reviewer. Adhering to the mandatory requirements of the standard, the assessment team established a positive opinion based on the findings raised and addressed them respectively.

VVB Opinion	Conclusion
Positive	☒ (Mark Tick if applicable)
Negative	☐ (Mark Tick if applicable)

Therefore, VKU certification recommends a request of Issuance to GS4GG.

H) Authorization

Director	Dr. Vikas Kumar Aharwal
Date	14/05/2024

I) Distribution

No public distribution without written confirmation from the client.

J) Verification Status

Findings not closed	Yes
Draft report	Yes
Final report	Yes

Abbreviations

BM	Build Margin
CAR	Corrective Action Request
CERs	Certified Emission Reductions
CL	Clarification Request
CM	Combined Margin
EB	Executive Board
EETC	Egyptian Electricity Transmission Company
ERs	Emission Reductions
FAR	Forward Action Request
FVR	Final Verification Report
GHG	Greenhouse Gas(es)
GHG	Green House Gas
GS4GG VVS	Gold Standard Validation and Verification Standard
GSS	Grid Sub Station
IPCC	Intergovernmental Panel on Climate Change
MR	Monitoring Report
O&M	Operation and Maintenance
OM	Operating Margin
PDD	Project Design Document
PE	Project Emissions
PPA	Power Purchase Agreement
PSA	Power Sale Agreement
Ref.	Document Reference
RMP	Revised Monitoring Plan
SCADA	Supervisory Control and Data Acquisition
TA	Technical Area
TR	Technical Reviewer
GS-VERs	Gold Standard-Verified Emission Reductions
VKU	VKU Certification Ltd.
VT	Verification Team
VVB	Validation and Verification Body
VVS	Validation and Verification Standard
WTG	Wind Turbine Generator

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1. INTRODUCTION

1.1 Executive Summary

Climate change mitigation through the generation of electricity using sustainable means (wind energy) is the primary purpose of project activity “**West Bakr Wind Farm Project**”. The project activity also displaces an equivalent amount of electricity from the generation-mix of power plants connected to the grid in Egypt. The project activity replaces anthropogenic emissions of greenhouse gases estimated to be approximately 531,674 tCO₂e per year, thereon displacing 1,197,600 MWh/year amount of electricity from the generation- mix of power plants connected to the Egyptian-grid, which is mainly dominated by thermal/ fossil fuel-based power plant.

The total installed capacity of the current project activity is **252 MW**; which involves operation of 96 Wind Turbine Generators in Ras Ghareb village, Red Sea Governorate state, Egypt. The project is promoted by Lekela Egypt Wind Power BOO (S.A.E.).

The verification is conducted for second monitoring period from **01/01/2023 to 31/12/2023 (both dates included)** for the first crediting period from 13/11/2021 to 12/11/2026 (both dates included) with regards to the relevant requirements for GS4GG activities. The amount of electricity generated for the current monitoring period is **1,045,446 MWh** which contributes to about **464,178 tCO₂e** of emission reductions. All the SDGs included in the project activity (SDG 7- 1,045,446 MWh, SDG 13- 464,178, tCO₂e, SDG 8- Trainings- 07 No. of Employees- 18, Income- Salary (Cumulative income in E£) 3,130,521 were verified via supporting documents and is found to be in compliance as per the GS4GG requirements.

Table No. 01: The details of the project are mentioned in the table:

Project Developer' Name	Capacity in MW	Connection with Grid	State	Usage of Electricity
Lekela Egypt Wind Power BOO (S.A.E.)	252	Egyptian Grid	Red Sea Governorate, Egypt	Sale to Egyptian Electricity Transmission Company

1.2 Objective

Infinite Environmental Solutions Ltd ³(Project Representative) and First Climate Markets AG has contracted VKU Certification Private Limited (VKU Certification) to conduct the verification and certification of emission reductions reported for the GS4GG project activity 7739 “**West Bakr Wind Farm Project**” in Egypt for the period 01/01/2023 to 31/12/2023 (both dates included). This report contains the findings of the verification process and a certification statement for the certified emission reductions, as per the GS4GG validation and verification standard v 1.0 para 1.1,9.1 and sub para 9.1.1/5.1/.

The verification is the periodic independent review and ex post determination by VKU Certification of the monitored reductions in GHG emissions that have occurred as a result of the registered GS4GG project activity during a defined monitoring period. Certification is the written assurance by VKU Certification that, during a specific period in time, a project activity achieved the emission reductions as verified.

VKU conducted a thorough and independent assessment of the implementation and the reported emission reductions, SDG Impacts, stakeholder feedback and other monitored information by a design certified project against the applicable GS4GG rules and requirements.

Verification Approach followed by VKU as per GS4GG validation and verification standard v1.0 /5.1/:

- VKU determined the applicable regulatory documents GS4GG PDD version 6 of 31/10/2022 /12/, Previous verification report for the project, including any changes to them that apply to the project since the last assessment (verification), and if any deviations have been approved by Gold Standard or a Certification Body.
- VKU assessed both quantitative and qualitative information on emission reductions/GHG Removals and SDG Impacts provided in the project documentation.
- VKU assessed and determined whether the implementation and operation of the design certified project, and the steps taken to report emission reductions/removals and other SDG Impacts complies with the applicable regulatory documents. This assessment involved a review of relevant documentation as well as on-site inspection.
- VKU assessed whether the data collection system meets the requirements of the design certified monitoring plan as per the applied methodology and related documents.

³ Infinite Environmental Solutions Ltd is consultant which is hired by PD.

- Monitoring report and monitoring plan is verified and other than that Validation report, verification report, applied methodology and supporting documents are also reviewed;
- VKU determined whether the Project Developer has addressed the FARs identified during validation, design change, deviation requests, renewal of crediting period or previous verification.

1.3 Scope and Criteria

The scope of this verification was the independent objective review and ex-post determination of the monitored reductions in GHG emissions from the “**West Bakr Wind Farm Project**”. The verification of this project was based on the validated & registered GS4GG PDD/12/, and revised Monitoring report /14/ along with supporting documents, submitted by the project representative to the VKU verification team. The documents thus submitted to the VKU Assessment/Verification Team were reviewed against the following guidance and protocol:

1. GS4GG validation and verification standard v1.0 para 1.2 /5.1/
2. GS4GG validation and verification standard v1.0 para 9.7.2 and 17.2.8 for project activity /5.1/
3. GS4GG principles rules and requirements v1.2 /1/
4. CDM validation and verification standard for project activities v 3.0 para 2 /5.2/
5. VKU.SOP.04. Process Requirements /43/

The steps involved are as follows:

- To assess the project’s compliance with other relevant rules including the host country (Egypt) legislation.
- To confirm that the monitoring system is implemented and fully functional to generate GS verified carbon units (GS-VERs) without any double counting.
- To verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement & is sufficiently supported by evidence.
- The verification process ensures that the reported emission reductions are comprehensive and accurate in order to obtain certification.

The verification method and criteria encompassed several phases, including various audit techniques as listed below: -

1. **Desk Review** of GS4GG project design document version 6 dated: 31/10/2022, and supporting documents listed in section 04 of this report, which is provided by the Project Representative to assessment team.
2. **Onsite Interviews** with site personnel and Stakeholders
3. **Reporting**, calculation checks, QA/QC and resolution of findings
4. Drafting of **verification report**
5. VKU's **technical review** of project
6. Completeness/ Quality Check, and
7. The final issuance of the verification report

Outstanding issues were resolved, and during the process of resolving issues 03 CARs and 03 CLs were raised and were closed successfully, leading to the issuance of the final verification report. It is to be noted that there was no FAR (Forward Action Request) raised / unaddressed in the current monitoring period. It is important to note that the verification process does not involve providing consultancy to the project proponents. However, requests for clarifications and corrective actions may have contributed to improvements in the monitoring processes.

1.4 Level of Assurance and Application of Materiality

All the revisions of the verification report before being submitted to the PD were subjected to an independent technical review to confirm that all verification activities had been completed according to the pertinent VKU's procedure, with a **Reasonable level of assurance**, as per the GS4GG validation and verification standard v1.0 /5.1/ and GS4GG Principles and Requirements v1.2 /1/.

VVB applies the general requirements, consideration of materiality in planning the verification of the project activity as per the GS4GG validation and verification standard v1.0, para 9.6. For the identification of materiality threshold VVB referred para 9.6.3 of validation verification standard v1.0 /5.1/ and applied to the total emission reduction actually achieved by the "West Bakr Wind Farm Project". As per the GS4GG Validation and Verification standard /5.1/ section 9.6, the level of assurance of the verification report falls under reasonable assurance engagements with respect to material errors, omissions, and misrepresentations.

Table No.02: Materiality Threshold Calculation

Application of Materiality Threshold as per the GS4GG VVS v1.0 para 9.6.3	Materiality threshold value (tCO _{2e})	Reported ERs (tCO _{2e})		Justification (If any deviation)
		In Initial MR	In Final MR	
1%	4664.18 tCO _{2e} (Initial) 4641.78 tCO _{2e} (Final)	466,418 tCO _{2e}	464,178 tCO _{2e}	There is only difference of 2,240 tCO _{2e} Which is only 0.48% less than initial emission reduction as per the reasonable level of assurance that the reported emission reductions/removals are free from material errors, omissions or misstatements in accordance with the requirements of GS Validation and Verification standard v1.0 para 9.6/5.1/.

1.5 Basic information of project activity

Table No. 03: General Information of Project Activity

Title of project activity	West Bakr Wind Farm Project
GS4GG Reg. No.	GS 7739
Scale of project activity	Large Scale
Applied Methodology/ies	ACM0002: Grid-connected electricity generation from renewable sources - Version 20.0
Sectoral Scope(s) / Technical Area(s)	Scope: 01 Energy Industries (renewable- and non-renewable sources); TA: 1.2 (Wind)
Project Representative	(GS) First Climate Markets AG
Host Country	Egypt

Location of project activity	Ras Ghareb village, Red Sea Governorate state, Egypt.
Start date of crediting period (with reference to this monitoring period)	13/11/2021 to 12/11/2026 (both dates included)
Type and length of crediting period	Type: Renewable (twice) Length: 05 years
Monitoring period	(2 nd) 01/01/2023 to 31/12/2023 (both dates included)

Table No.04. VVB Information

Name of the VVB	VKU Certification Private Limited
GS accreditation expiry date	20/06/2026
Is the VVB accredited for the applicable sectoral scope?	Yes ⁴
Name, position of the approver of the verification report	Dr. Vikas Kumar Aharwal- Director
Signature (Final version only)	VIKAS KUMAR AHARWAL  Digitally signed by VIKAS KUMAR AHARWAL Date: 2024.05.14 12:29:23 +05'30'

Table No. 05: Sustainable Development Contributions for verification

Sustainable Development Goals Targeted	SDG Impacts	Estimated Annual Average	Value achieved in current MP	Units
13 Climate Action (Mandatory)	Emission Reduction	531,674	464,178	tCO _{2e}
7 Affordable and Clean Energy	MWh of renewable energy generated	1,197,600	1,045,446	MWh
8 Decent Work and Economic Growth	Training/Employment/Income (E£)	• Trainings-01 • Employees- 15 • Made in line with minimum wage requirements and the contractual agreements	• Trainings-07 • Employees- 18 • Income- 3,130,521	No. of trainings No. of Employees Cumulative income of workers is E£

⁴ VKU Accreditation in GS4GG Registry- Checked on 09/02/2024

2. METHODOLOGY

VKU Certification assessed and determined whether the implementation and operation of the project activity, and the steps taken to report emission reductions comply with the GS4GG criteria and relevant guidance provided by the GS4GG impact registry.

The assessment process involved a desk review of relevant documentation (details are in section 4 of this report) as well as an on-site visit /31/. The personnel employed and their roles in this project's assessment are mentioned below;

Table No.06: Verification Team members

S.No.	Full Name	Role(s)	Type of Resource	Type of Activity(ies) carried out
1.	Barun Kumar (Male)	Team Leader and Technical Expert (TA 1.2)	Internal	DR/OSV/I/VF/FVR ⁵
2.	Aastha Verma (Female)	Validator/Verifier-Trainee	Internal	DR/VF/FVR
3.	Megha Modi (Female)	Project Trainee	Internal	DR/DVR
4.	Ola Abdalla (Female)	Local Expert	Internal	Translation of Language only, in Interview and Inter-communication at site

Technical Reviewer and approver of the verification report

S.No.	Full Name	Role(s)	Type of Resource	Type of Activity(ies) carried out
1.	Sanjay Kumar K (Male)	Technical Reviewer cum Technical Expert (TA 1.2)	External	Technical Review

⁵ DR- Desk Review, DVR- Draft Verification Report
OSV-Onsite Visit
I-Interview
VF- Verification Findings
FVR- Final Verification Report

Table No.07: Verification milestones

Monitoring report submission:	16/01/2024
On-site assessment and Interview:	23/01/2024 to 24/01/2024
Draft Verification Report	09/02/2024
Final Verification Report	08/05/2024

VKU Certification followed a rule-based verification approach, wherein, the contract review is undertaken as per valid/effective version of GS4GG validation/ verification Standard version 01 /5.1/ clause 1.3. Once the contract is agreed for verification, the monitoring report of the project activity submitted to VVB for further process. Key steps are described in Section 2.1 to 2.4 of this report.

As per the registered PDD, Project Developer did not implement any sampling plan hence, VVB were not employed any sampling methods during onsite visit /31/, instead of sampling method, assessment team reviewed 100% data for this project at site and also on-spot inspection of wind farm (WTGs) for the verification of GHG emission reduction generated by the project.

- The GHG emission reductions are based on the approved Baseline and monitoring methodology **ACM0002 “Grid-connected electricity generation from renewable sources” Version 20/11.1/**
- Scope: 01 - Energy Industries (renewable /non-renewable sources)
- Project type: Type I - Renewable energy projects

Tools used for GHG Calculations are as follows as per registered PDD/12/:

- Methodological Tool- Tool for the demonstration and assessment of additionality 8 - Version 07.0.0 (EB 70, Annex 08) /11.2/
- Tool to calculate the emission factor for an electricity system, Version 07.0 (EB 97, Annex 07) /11.3/

Keeping in line with ISO (14064-3; 2019, clause 06 & 14065-2020, clause 09)/8/ Standard guidelines assessment team has framed down the process for completing the verification and has followed the same throughout the execution of audit of the said project GS 7739.

2.1 Desk Review or Document Review

VKU Certification conducted a desk review or document review as under;

During the document review, VKU has applied standard auditing techniques to assess the quality of information provided. The verification was performed primarily based on the review of monitoring report (MR) /14/. Emission reduction (ER) /15/ calculations spreadsheet was received from PD and assessed along with the monitoring reports as part of the verification. In addition, the registered GS4GG PDD version 6 of 31/10/2022 /12/ was also reviewed, for the baseline estimations and applicability of the monitoring plan.

As per section 9.3 and clause 9.3.2 of the GS4GG Validation and Verification standard version 1.0 /5.1/ the VVB shall assess the information provided by the Project Developer(s).

Document review involves:

- A review of the data and information presented to verify the 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;

In addition to the monitoring documentation, VKU Certification has reviewed;

- The GS4GG PDD version 6 of 31/10/2022 /12/ and the monitoring plan, including any approved revised monitoring plan and/or changes from the registered PDD, and the corresponding validation opinion;
- The Validation Report Version 02 dated 31/10/2022 /30/
- Previous verification reports/45/
- The applied monitoring methodology (ACM0002 v.20) /11.1/
- The monitoring report (all versions, if available) to verify that it is as per the standardized format;
- The emission reduction spreadsheet for the current monitoring period (all versions, if available), to verify the electricity generation and emission reductions achieved during the current monitoring period
- Any other information and references relevant to the project activity's emission reductions (e.g., IPCC reports, data on electricity generation in the national grid or laboratory analysis and national regulations).

The complete list of documents reviewed is included under Section 4.

2.2 Site Visits (Onsite)

An onsite audit was undertaken by VKU's assessment team on **23/01/2024 and 24/01/2024** at the below mentioned location.

Table No.08: Location and date of site visit

Company Name	Capacity	Site- Visit Dates	Project activity site	Project activity Name
Lekela Egypt Wind Power BOO (S.A.E.)	252 MW	23/01/2024 to 24/01/2024	Ras Ghareb, Red Sea Governorate state, Egypt.	Wind Energy project

The site visits are conducted as per the “GS4GG site visit and remote audit requirements and procedures” v 2.0 dated 30/05/2023 /6/ and “GS4GG applicability of minimum site visit requirement by VVB” dated 16/08/2021 v 2.0 /7/ and mentioned to carry out following;

- An assessment of the implementation and operation of the registered project activity as per the registered PDD or any approved revised PDD;
- A review of information flows for generating, aggregating and reporting the monitoring parameters;
- Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PDD;
- A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources;
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD, the applied methodology including applicable tool(s), and, where applicable, the applied 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 procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

Table No.09: Applicable audit technique requirements as per “GS4GG applicability of minimum site visit requirement by VVB” dated 16/08/2021 v 2.0

3.A. Project Activities		
Para 3.1	Frequency of physical site visit	
Sub Para	Eligibility Criteria	VVB Opinion
3.1.1	At minimum, the VVB shall conduct physical site visit within two years of project start date	As no site visit was conducted during the validation of the project activity due to Covid-19 situation and this is the second verification of the project activity, VVB conducted a physical site visit for the project activity for current monitoring period.
3.1.2	Once within every three years after the first physical site visit date	Not applicable
Para 3.1	Audit events	
3.2.1	A physical site visit by VVB is not mandatory at the validation (Design Certification or Design Certification Renewal) of a project.	Not applicable
3.2.2	A physical site visit by VVB is mandatory at the first verification of a project.	Not applicable
3.2.3	The first physical site visit may combine both validation and verification audits if the project developer and VVB combine Design Certification with the first verification and Performance Review.	Not applicable
4 Requirements for all audits		
4.1	General requirements for all audit instances	

4.1.1	If the project developer requests an audit to be conducted remotely: a. When assessing the feasibility of remote auditing, the VVB shall take into account the following factors. It is important that the decision is not unfairly influenced by the project developer. The VVB shall determine: - whether a physical site visit is required as per the minimum physical site visit requirements (refer to section 3 above), and - if a physical site visit would be more efficient for the scope of assessment, based on the complexity/type of the project or any other project-specific situations, and - whether a remote audit is viable for an audit instance of a given project/VPA/PoA. b. In case of PoA verification, the remote audit can only be conducted if verified emission reduction for an audit instance is less than 200,000 tCO₂e in total; c. In case of PoA verification, if the VPAs are audited in batches during the remote audit, it shall be ensured that each VPA included in the batch fulfil the minimum site visit requirement (refer to para 6.3.5 to 6.3.12 of Validation and Verification Standard). d. If a PoA is verified using remote auditing techniques, and the verification involves a sampling approach, then the samples size that VVB audits shall be 10% more than the minimum required sample size. e. The VVB shall conduct the risk assessment applying qualification criteria described in 6.3 below and ANNEX 1 - RISK ASSESSMENT GUIDELINES, and any additional qualification criteria that VVB finds appropriate for decision-making.	Not Applicable as Onsite audit was conducted.
4.1.2	The VVB audit team members shall carry out any assessment, whether remote or including a	Yes, VVB confirms that onsite audit was carried out by GS

	physical site visit, as per their established roles/responsibilities stated in the Gold Standard Validation and Verification Body Requirements.	approved Lead Auditor (Barun Kumar) as per their established roles/responsibilities stated in the Gold Standard Validation and Verification Body Requirements.
4.1.3	For the minimum participation of team members during site visit (physical or remote), refer to para 8.3.1.2 of Validation and Verification Body Requirements.	As the host country is Egypt, two members were participated in Onsite Audit, one is GS approved Lead Auditor and other is Local Expert (qualified as per VKU competency requirement) and it is compliance with refer to para 8.3.1.2 of Validation and Verification Body Requirements.
4.1.4	Remote audit techniques may be used as appropriate, and applying the safeguards and procedures in this document, in any audit, whether it includes a physical site visit or not.	Yes, assessed. The VVB identified risks pertaining to the onsite inspection towards combined validation and verification activity. Implementation measures were undertaken to eliminate or reduce those risks.
4.1.5	The VVB, in its audit report, shall report on: a. Mode of site visit b. List of auditing techniques used in audit of the project c. The assessment of the appropriateness of the selected auditing techniques d. If the applied techniques were sufficient to close the assessment (or not)	A. Onsite Audit B. Physical Verification and Desk Review. There is no use of video call of communication, only face to face communication was done.

	e. If the site visit conducted solely by local expert(s) who do not have the ‘auditor’ status f. Any identifies risk and mitigation measures implemented to eliminate or reduce risks pertaining to selected auditing technique(s) g. Any aspects of the project that need to be further audited during the subsequent audit (Forward Action Requests)	C. There is onsite audit happened with considering all risk of instances. D. Yes (Physical site and document inspection) E. No, GS approved Lead Auditor was main part of site visit conducted. Local Expert was also part of onsite assessment team. . F. Yes, assessment team done Risk assessment, strategic analysis, evidence gathering plan, evidence gathering activities. To reduce the risk related to site visit, team shared audit plan prior to audit date. g. For the given Project Activity there is no such aspects of the project that need to be further audited during the subsequent audit (Forward Action Requests).
4.1.6	Gold Standard reserves the right to enforce a mandatory site visit before concluding the review, should material issues be identified with the use of remote auditing techniques during an audit. Such a site visit: a. May be of a limited scope, covering only the material issues identified. b. Shall be conducted by an approved validator/verifier and may not be outsourced to a local expert.	Not Applicable

4.1.7	The VVB may provide suggestion/comment on auditing technique to Secretariat at vvb@goldstandard.org if any. Such a suggestion on audit technique should include information on project type, review instance, aspect of the project, possible risks, and mitigation measures to consider.	Not Applicable
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Personnel responsible for monitoring of project activity, data collection, management and QA/QC procedure were interviewed. The table below outlines the personnel involved in the interviews, along with their respective roles.

Table N0.10: Interview: Technical Personnels

S. No.	Name	Role & Organization	Topic of Discussion
1.	Nader Hassan (Male)	First Climate	General aspects of the project activity: 1. Implementation of project, Operation and maintenance procedures, calibrations 2. Data monitoring management and archiving 3. GHG emission reduction calculation 4. Involved personnel and responsibilities 5. Compliance to regulatory requirements 6. Local employment and trainings 7. QA/QC Procedure
2.	Heba Ibrahim (Female)	E & S Manager WBWF	
3.	Kumar Shantanu (Male)	Infinite Environmental Solutions Limited	
4.	Faisal Bissa (Male)	MD Lekela Egypt	
5.	Taha Ahmed (Male)	HR Director Lekela Egypt	
6.	Mohamed Jeh (Male)	Finance Director	
8.	Badea Wagih (Female)	QHSSE Head IPH	
9.	Moustafa Abdelhadi (Male)	Plant Manager WBWF	

The topics covered during interview inter alia general features and implementation of project to technical details of the project like calibration, monitoring and measuring system, data collection,

recording, emergency procedures internal audit, Procedures for handling non-conformances with the validated monitoring plan, personal training, and archiving procedures.

Verification Team also interviewed the local stakeholders of the project activity, confirming that the project developer is involved in CSR (Corporate Social Responsibilities) activities and contributing towards sustainable development goals. The Project Developer is supporting a Special Need school in Ras Ghareb, near the project activity. The school is helping differently-abled people in gaining education in that area. A few of them have been interviewed during the onsite audit and they have found to be freshly graduated from the special needs school. VKU also checked records and observed that the PP has provided opportunities for the locals to express their opinions and grievances.

Assessment team also confirms that there is no deviation(s) to address a non- compliance with the minimum site visit requirement as per the GS4GG applicability of minimum site visit requirement by VVB” dated 16/08/2021 v 2.0 /7/⁶

Table N0.11: Interview: Local Stakeholders / Non -Technical Personnels

S. No	Name	Gender	Role & Organization	Topic of Discussion
1.	Walid Elgohary	Male	LTSA Performance Head IPH	Execution of the project activity, operation and maintenance system, monitoring data management and compliance to regulatory requirements, and the workplace health and safety during all the phases of the project.
2.	Julie Beshara	Female	Sustainable Design Engineer	
3.	Abdulrahman Mohamed	Male	Office boy Engaz service	
4.	Mohamed El-Ahmar	Male	Operation & Maintenance Head IPH	
5.	Fatema Kamal	Female	Chief Legal Officer (CLO)	
6.	Souad Amin	Male	Local Stakeholder	

⁶ https://globalgoals.goldstandard.org/112_par_site-visit-and-remote-audit-requirements-and-procedures/

			Teacher, Special Need School, Ras Ghareb (Egypt)	Local stakeholders were interviewed regarding their grievances, and the economic, social and environmental impact of project activity on the local people of Ras Ghareb. Scope and generation of employment in the locality due to implementation of the project activity.
7.	Mai Ahmed	Female	Local Stakeholder Graduate from Special Need School, Ras Ghareb (Egypt)	
8.	Esraa Afifi	Female	Local Stakeholder Ras Ghareb (Egypt)	
9.	Rehab Mohamed	Male	Local Stakeholder Hayah Centre, special need Ras Ghareb (Egypt)	

VKU's Assessment Team in a form VKU.F46W. Attendance Sheet of Onsite audit /36/ wrote the names of personnel present during opening and closing meeting and those who were interviewed. Names of stakeholders were also recorded and there were no negative comments received during the stakeholder consultation interview /34/ conducted on site.

Verification Team confirms that there is no perceived or potential conflict of interest and provided complete list of the people interviewed during site visit, including information on the organization they represent are disclosed in public document by their consent.

2.3 Reporting 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 onsite assessment. 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 are 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 has 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 quantity of emission reductions;
- Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

Clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable GS4GG requirements have been met. All CARs and CLs raised by the VKU Certification during verification shall be resolved prior to submitting a request for issuance.

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

In summary, **03 CLs**, **03 CARs** and **00 FAR** were raised during this verification which were closed successfully.

All the findings that are raised and communicated to project representative during the verification are included under Section 06. The section also includes the response, if provided, by the project participants and an assessment by the verification team if it was closed out or otherwise.

2.4 Technical Review

A draft verification report that is prepared by verification team is reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by VKU Certification were duly complied with and such opinion or conclusion is reached in an objective manner that complies with the GS4GG rules and requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the verification team.

During the technical review process additional findings may be identified or the closed-out findings may be opened, which needs to be satisfactorily resolved before the request for issuance is submitted to GS4GG. The independent technical reviewer may either approve the report as such or reject/return the same in such case providing the comments/findings/issues that needs to be resolved by the verification team. The decision taken by the Technical Reviewer is final and is authorized by the Managing Director on behalf of VKU Certification Private Limited.

3. VERIFICATION FINDINGS

This section summarises the findings from the verification of the emission reductions reported for the “West Bakr Wind Farm Project” for the current monitoring period 01/01/2023 - 31/12/2023 (both dates included).

The project has applied for registration under the Gold Standard (GS) exclusively with **ID: 7739**.

This sole registration status has been confirmed by the assessment team by surfing the Gold Standard registry’s website. Same sort of comprehensive search was conducted across the websites of several registries like [CDM](#) (Clean Development Mechanism), [VCS](#) (Verified Carbon Standard), [GCC](#) (Global Carbon Council) and [UCR](#) (Universal Carbon Registry) etc., using matching project field, scope, titles and capacity, as well as by searching the details of Project Proponent. This rigorous surfing through various registries did not yield any instances of the project being registered under any of the aforementioned registries or any comparable mechanisms Verification through Declaration:

The Project Developer (PD) has also confirmed this claim of single-registration through a declaration document submitted to the assessment team, affirming that the GHG emission reductions achieved by the project during the current monitoring period are not be sought or claimed under any other registries apart from GS.

Cross-Verification of GHG Benefits:

An independent search was also conducted to ascertain whether the project had been registered or claimed for other GHG-related benefits, such as Renewable Energy Certificates (RECs) and International Renewable Energy Certificates (I-RECs). The assessment conducted thoroughly in the mentioned manner, coupled with the declaration submitted by the PP, affirms that there is no double counting of GHG benefits arising from this project activity.

The project's non-rejection status by other GHG programs has also been confirmed through a meticulous assessment.

In conclusion, the project's exclusive registration under GS for the current monitoring period, along with its absence from rejection lists of other GHG programs, has been comprehensively verified, ensuring the integrity and credibility of its GHG benefits claims. Details of the registries checked are as follows:

- 1) <http://cdm.unfccc.int/>
- 2) [Verra Search Page](#)
- 3) [I-REC Standard - The International REC Standard Foundation \(irecstandard.org\)](http://irecstandard.org/)

- 4) <https://cri.nccf.in/>
- 5) [International Carbon Registry - International Carbon Registry](#)
- 6) [GCC PROJECTS PORTAL \(globalcarboncouncil.com\)](http://GCCPROJECTSPORTAL(globalcarboncouncil.com))
- 7) <https://biocarbonregistry.com/en/projects/>
- 8) https://wilder.earth/social_carbon
- 9) <https://www.ucarbonregistry.io/>
- 10) <https://www.ecoregistry.io/>
- 11) <https://www.carbonregistry.com/explore/projects>
- 12) https://wilder.earth/social_carbon
- 13) <https://www.recregistryindia.nic.in/>
- 14) <https://www.ecoregistry.io/>

A declaration for “No double counting”/28/, has been submitted by the PD to VVB claiming that the participation of project is voluntary in nature and not participating in any other Emission trading program. Additionally, there is no involvement of Host country (Egypt) government in terms of carbon credit. Hence, VVB also confirmed that claimed GS-VERs are not included within and counted under regulated domestic mitigation target or NDC. The same has been cross verified independently on **NDC registry** and **Egypt | Climate Action Tracker** and found that the given project GS 7739 is not registered or fall under the Egyptian policies & action and conditional NDC targets.

3.1 Description of project

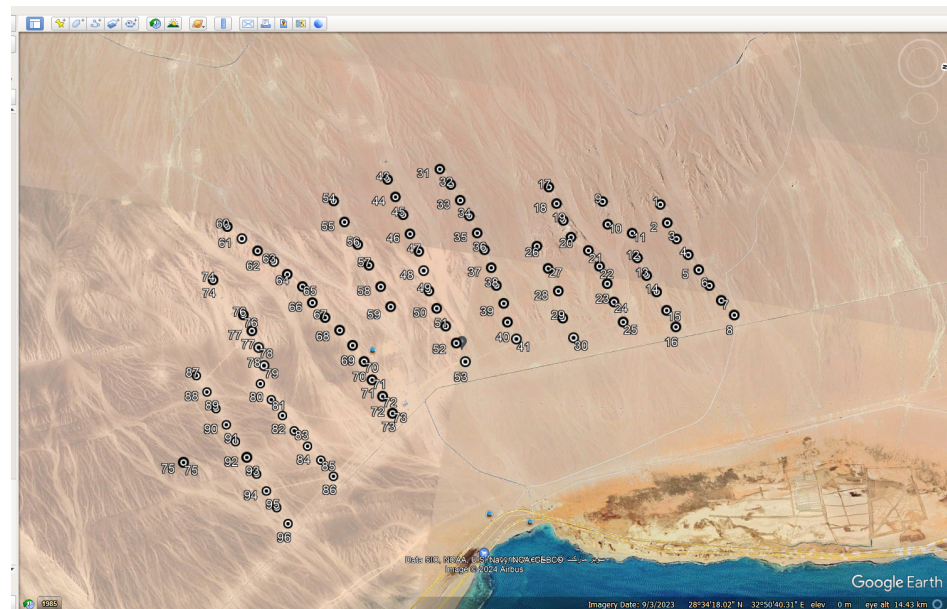
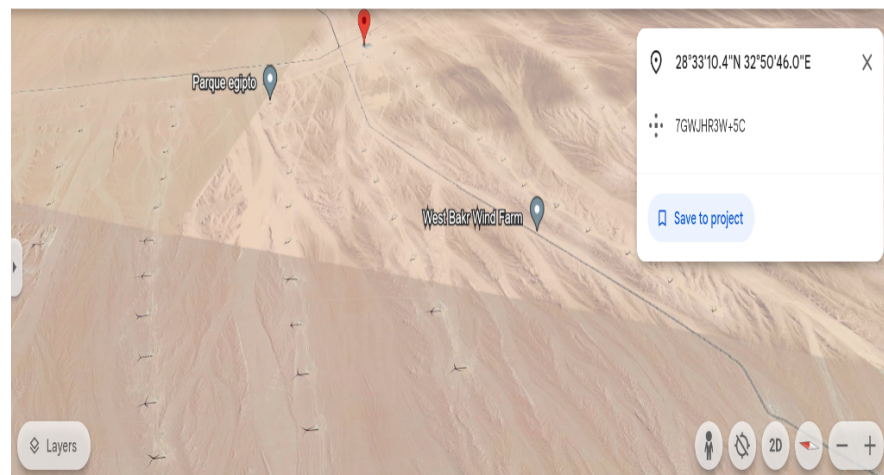
3.1.1 General description of project

Verification Means	Desk Review and Onsite Inspection- The assessment team verified revised MR version /14/, PDD version 06 dated: 31/10/2022 /12/, and supporting documents (details are in section 4 of this report).
Findings	CL#01 was raised during the initial document verification. These were resolved after the final clarifications and justifications were obtained from the PD's end.
Conclusions	Verification is done in accordance with the registered PDD. General description of the project was verified via Commissioning certificates /16/ (commissioning details added in appendix 3), PPA /23/. Assessment team verified that the commissioning certificate and PPA has been signed between Egyptian Electricity Transmission Company

	(EETC) and Lekela Egypt Wind Power BOO (S.A.E.). Since, all data was verified thoroughly, the Assessment Team can ascertain that the description of the project mentioned is in line with GS4GG standards Version 1.0./5.1/, GS Principle and Requirements v1.2/1/ and GS registered PDD /12/.
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3.1.2 Location of Project

Verification Means	Desk Review and Onsite Inspection- The assessment team verified revised MR version /14/, PDD version 06 dated: 31/10/2022 /12/, and supporting documents (details are in section 4 of this report). Assessment Team used GPS Map Camera /32/: Geotag Photos & Add GPS Location during site visit to confirm the location and geo-tagged the evidences collected during on-site visit, also during desk-review, team employed Google Earth Software/33/ to confirm if the site to be visited is actually installed and reflected at the geocoordinates as defined in the registered PDD.						
Findings	CL#01 was raised during initial document verification. These were resolved after the final clarifications and justifications were obtained from the PD's end.						
Conclusions	Verification done in accordance with the registered GS PDD/12/ and was verified using Google earth during desk review and via GPS Map Camera app during on-site visit. Details of the project location: - <table border="1"> <tr> <td>Village:</td><td>Ras Ghareb</td></tr> <tr> <td>State:</td><td>Red Sea Governorate</td></tr> <tr> <td>Host Country:</td><td>Egypt</td></tr> </table> Latitude and longitude: - The geo coordinates of all 96 WTGs are correct and compliance with registered PDD/12/.	Village:	Ras Ghareb	State:	Red Sea Governorate	Host Country:	Egypt
Village:	Ras Ghareb						
State:	Red Sea Governorate						
Host Country:	Egypt						



Since, 100% data was verified independently at site (substation metering point), the assessment team ascertains that the location of project mentioned is correct and in compliance with the registered PDD v6 /12/. There is one correction done in coordinate of WTG 42 which is assessed in the section 3.3 of this report. As per the registered PDD, geo-coordinate of WTG 42 was 480641 (Northing), 6157201 (Easting), which was found incorrect during desk verification

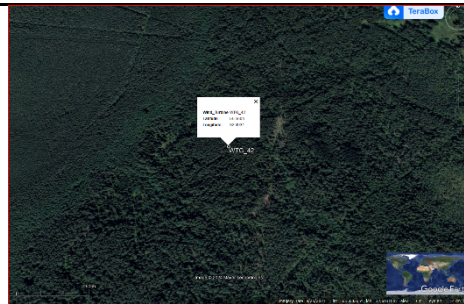


Fig: Incorrect geocoordinate location of WTG 42



Fig: Corrected geo coordinate location of WTG 42 (480641 Easting, 3157201 Northing)

Verification team confirmed that correction done by the PP in latest updated MR for current monitoring period and the updated geo coordinate is correct as per the desk review with Google Earth Software application/33/.

3.1.3 Reference of applied methodology

Verification Means	Onsite Inspection, desk review of latest updated MR/14/, registered PDD /12/, and supporting document mentioned in section 4.
Findings	CAR#01 was raised during the initial document verification. These were resolved after the final clarifications and justifications were obtained from the PD's end.
Conclusions	Verification Team confirms that applied CDM methodology Grid-connected electricity generation from renewable sources, Version 20.0) /11.1/, Tool 01 (Tool for the demonstration and assessment of additionality version 7.0) /11.2/ and Tool "Tool to calculate the emission factor for an electricity system" Version 7.0/11.3/ are used which is compliance with the registered PDD v6/12/, GS4GG

	validation and verification standard v1.0 /5.1/, GS Principle and Requirements v1.2 /01/. and also follow the guidelines provided in the GS4GG guide MR Template v1.1 /13/.
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3.1.4 Crediting period of Project

Verification Means	During Onsite Desk review, Assessment team verified registered PDD /12/, its corresponding validation report/30/, 1 st Monitoring Period MR/44/, and its corresponding verification report/45/, and GS impact registry.
Findings	No findings were raised in this section for the current monitoring period
Conclusions	Team concluded that this is the 1 st crediting period of the given project activity i.e., from 13/11/2021 to 12/11/2026 (both dates included) (Length of 5 years and renewable). This was verified via registered PDD and GS impact registry. Based on this, it can be concluded that crediting period start date and its length is correct and is in line with registered GS PDD/12/, GS4GG VVS/5.1/, GS4GG principles and requirements/1/.

3.2 Remaining Issues (FAR(s) from validation or previous verification)

This is the 2nd verification of the project activity and verification team confirmed that there are no open FAR(s) from validation or previous verification (1st) that need to be closed during this verification.

3.3 Post registration changes

Type of change(s)	Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline.
Description of change(s)	N/A
Assessment of change(s)	N/A
Opinion on change(s)	N/A

Type of change(s)	Corrections
Description of change(s)	1. As per the section A.3 of the GS registered PDD, two dry type cast resin transformers were proposed to install in the project activity. However, as

	per the actual site conditions, only one dry type vacuum cast resin transformer manufactured by Hainan Jinpan Electric Co. Ltd has been installed in the project activity. 2. As per Appendix A of the GS registered PDD, the coordinate mentioned for the WTG-42 as 480641 (Northing), 6157201 (Easting) is incorrect. The correct coordinate for the WTG-42 is 480641 (Northing), 3157201 (Easting). The same has been updated in Appendix A of this document.
Assessment of change(s)	1. The proposed change regarding the installation of transformer in the project activity has been assessed by the assessment team at the project site based on the Transformer type installed and its technical specification. 2. The revised of geo-coordinates (480641 (Northing), 3157201 (Easting)) for WTG 42 is now deemed to be correct as per verification through the Google Earth Pro application.
Opinion on change(s)	Based on the site-inspection and assessment of actual site conditions, assessment team concludes that only one dry type vacuum cast resin transformer is present at the project site and the other type of transformer manufactured by ABB has not been installed during current monitoring period. And the registered geo-coordinates for WTG 42 is corrected. As per the core document Design change requirements v1.1, dated 14/04/2023 para 8.1.1/4/, verification team confirmed the following; 1. The given correction did not affect the design of the project activity 2. It has no materiality impact on the applicability of the applied methodology, accuracy and completeness of the monitoring; 3. It did not impact the applicability and application of the applied methodologies and the other standard documents with which the project activity has been certified, additionality, scale and safeguarding and sustainable development impact. 4. The given project is not included in the positive list for demonstrating additionality as stated in the Tool 32: Positive list of technologies. The additionality of the given project is demonstrated and assessed using the Tool 01.

Type of change(s)	Changes to the start date of the crediting period
Description of change(s)	N/A
Assessment of change(s)	N/A
Opinion on change(s)	N/A

Type of change(s)	Permanent changes from the design Certified registered monitoring plan, applied monitoring methodology or standardized baseline
Description of change(s)	N/A
Assessment of change(s)	N/A
Opinion on change(s)	N/A

Type of change(s)	Changes to the project design of approved project activity
Description of change(s)	N/A
Assessment of change(s)	N/A
Opinion on change(s)	N/A

3.4 Description of monitoring system applied by the project

Project entails installation & operation of 96 Wind Turbine Generators of 2.625 MW capacity each, that totals up to 252 MW capacity Wind power project. The monitoring plan has been crafted in alignment with the guidelines and processes established for the GS4GG project in Egypt, specifically for grid-connected wind power projects.

The project activity is anticipated to operate continuously without any major breakdowns, which enables it to export 1,197,600 MWh of electrical energy annually to the Egyptian Grid. This, in turn, leads to an average estimated annual reduction of 531,674 tons of carbon dioxide (GS VERs/tCO₂e) per year stemming from the project's operations. It's worth noting that the project activity does not entail any technology transfer.

Verification Team concluded that there is no major breakdown but there is no major breakdown in the project activity during the current monitoring period. Instead, there have been instances of corrective and preventive maintenance as per the onsite audit and desk review. The plant is on corrective maintenance for Total 7228 hrs 41mins which is 0.86% of the total operational time as per the submitted Maintenance record/46/.

Corrective and Preventive maintenance

S. No.	Month	Corrective maintenance (hh:mm)
1	Jan-23	724:00
2	Feb-23	158:30
3	Mar-23	932:37
4	Apr-23	181:40
5	May-23	717:31
6	Jun-23	1084:09
7	Jul-23	798:17
8	Aug-23	685:43
9	Sep-23	568:27
10	Oct-23	485:47
11	Nov-23	418:29
12	Dec-23	484:31

S. No.	Month	Preventive maintenance of WTGs
1	Jan-23	WTG-19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 51, 52
2	Feb-23	WTG-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 35
3	Mar-23	0
4	Apr-23	WTG-46, 47, 39, 44, 45, 15, 24, 42, 43, 19, 18, 94, 41, 66, 24, 95, 21, 16, 17
5	May-23	WTG-61, 62, 63, 67, 73, 83, 84, 85, 87, 88, 89, 92, 93, 94
6	Jun-23	WTG-46, 53, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96

7	Jul-23	All 96 WTGs except WTG- 1, 2, 3, 4, 5, 6, 7, 8, 10, 14, 18, 19, 27, 39, 43,
8	Aug-23	All 96 WTGs
9	Sep-23	WTG-31, 48, 3, 9, 32, 8, 10, 11, 20, 26, 27
10	Oct-23	WTG-61, 62, 63, 64, 66, 67, 73, 81, 83, 84, 85, 87, 88, 89, 91, 92, 93, 94
11	Nov-23	WTG-42, 46, 47, 49, 50, 51, 52, 53, 54, 55, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 73, 74, 75, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96
12	Dec-23	All 96 WTGs except WTG- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, 19, 20, 21, 22, 23, 24, 26, 27, 39, 72

3.4.1 Compliance of monitoring plan with monitoring methodology

The verification team has confirmed that the monitoring plan and implemented monitoring system comply with the applied monitoring methodology ACM0002, version 20.0 /11.1/. All other requirements of the applied methodology have been met.

During the verification process, all relevant monitoring parameters listed in the GS4GG PDD /12/ have been checked for appropriateness of the applied measurement/determination method, correctness of the values used for ER calculation, accuracy, and applied QA/QC measures.

As per the monitoring report/14/ and registered GS PDD/12/, the effective monitoring plan has been placed by PD, where the electricity generation is monitored instantaneously by the Project Developer, i.e. Lekela Egypt Wind Power BOO (S.A.E.). The Project Coordinator, is the person responsible for data monitoring and recording activities. He reports to, the project's General Manager. The daily monitoring activities are performed by technical Operators on-site, reporting to the Site Manager, who in turn reports to the Project Co-Ordinator.

Based on our assessment, we believe that the monitoring mechanism is in line with the methodology and is effective and reliable. The monitoring plan mentioned in the GS4GG PDD is in accordance with the applied methodology, i.e. ACM0002, version 20.0 and the approved standardized baseline applied by the registered GS4GG project.

3.4.2 Compliance of monitoring activities with the registered Monitoring plan

As per the registered GS PDD /12/, GS principle and requirement v1.2/1/, and GS Renewable Energy activity requirement and applied methodology ACM0002 v20.0/11.1/, verification team assessed the section C Description of monitoring system applied by the project of revised MR/14/ and found correct and in compliance. Monitoring system of the project described and assessed below:

Operation and Management:

Verification Team confirms as per the O&M agreement/24/ submitted by the PD that the Project Company recruited Siemens Gamesa Renewable Energy Egypt LLC as an O&M team to manage the administrative and technical tasks during the current monitoring period.

O&M Structure: The O&M team had four hierarchical structure which are O&M Director (Plant Manager), O&M Head, Shift Operation Engineer and Maintenance Engineer.

O&M Responsibilities:

Designation	Responsibility
O&M Director (Plant Manager)	- Held complete control over monitoring aspects pertaining to the project. - Reviewed Monitoring report. - Training of the staff performed. - Emission reduction calculation has been maintained.
O&M Head	- Complete responsibility of implementation of project activity including preparation of PDD, validation, verification and associated action thereto as indicated in PDD. - Formulate monitoring compliance protocols & human resources training guidelines for O&M and fuel teams to comply with Monitoring Plan requirements. - Ensure adequate training is offered for O&M, fuel and Carbon teams to comply with the requirements of project activity. - Establish systems for data management and approve data submitted by operational team.
Shift Operation Engineer	- Collection of data from O&M and fuels group. - Carrying-out consistency checks on parameters and formats. - Prepare the data for calculations, - Storage of data including calibration and maintain data and retrieval of data.

Maintenance Engineer	• Monitor, measure, calibrate and store electricity generation data and other related data. • Monitor, measure, calibrate and store fuel consumption data. • Monitor, measure, calibrate and store fuel specific weighted average Carbon mass fraction data
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Verification Team concluded that organization structure and its roles and responsibility mentioned in the MR v04 section c are correct and in compliance with the registered PDD/12/, and GS4GG validation and verification standard v1.0, para 9 and also verified during the onsite inspection. PD submitted the organization structure organogram.

The effective Monitoring Plan to be put in place have the following objectives:

- Allocate roles and responsibilities to project staff
- Gather data on the net electricity supplied to the grid by the project;
- Establish Quality Assurance & Quality Control procedures, as well as data archiving procedures;
- Generate periodical reports for verification purposes indicating the amounts of CO₂ reduced by the project.

O&M Log

As per the onsite inspection, verification team confirms that Each shift leader maintains daily operation and maintenance logs on a real time basis. They provide detailed on-the-spot information about the operations at the plant and any event of significance is reported.

Metering

As per onsite inspection of meters and desk review calibration record submitted by the PD, verification team confirms that following information provided in the revised MR is correct and compliance.

The project electricity generation was monitored through the use of metering equipment at the relevant substation (the interconnection facility connecting the power generated to the grid). There are two lines of power evacuation and there two metering system equipment for each line:

1. Main metering system equipment
2. Backup metering system equipment

Line	Serial Number of the Energy Meter
Main Meter for Line 1	02891378

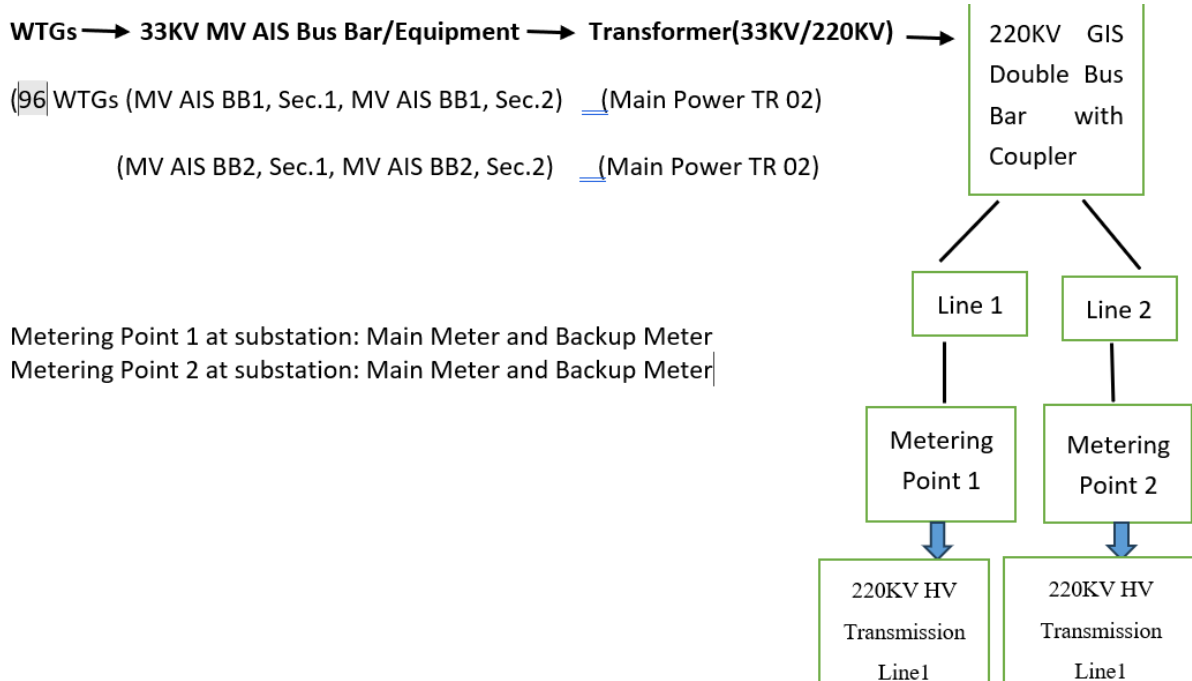
Backup Meter for Line 1	02914086
Main Meter for Line 2	02891300
Backup Meter for Line 2	02913923

Meter Specifications:

Meter Sl. No.	02891378	02914086	02891300	02913923
Parameters				
Make	Elster	Elster	Elster	Elster
Model	A1882RALN	A1882RALN	A1882RALN	A1882RALN
Type	A1800	A1800	A1800	A1800
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Accuracy	0.2s	0.2s	0.2s	0.2s
Calibration Frequency	Once in a year	Once in a year	Once in a year	Once in year

WTGs: Total number of WTGs are 96 of 252 MW.

Verification Team confirmed that no WTGs are directly connected with the line 1 and line 2 as per the onsite inspection and submitted SLD diagram/18/. For understanding verification team provided the details of SLD in arrow manner below;



The wind turbine generator voltage level is 690VAC. The wind turbine generator nacelle is equipped with a dry type step-up transformer 0.69/33KV. The produced electricity from the wind turbine generators at the facility is collected via a medium voltage underground cable network at 33KV level

from the wind turbine generators to the substation located medium voltage collector/switchgear. The collected generated electricity at the 33KV medium voltage collector/switchgear is evacuated to the off taker national grid through 2 oil filled step up main power transformers each is 33/220KV, 175MVA then to 2 overhead transmission lines. All turbines are connected to a common HV bus bar and then the collected electricity from the turbines is evacuated to the national grid via 2 lines.

Data collection

As per the onsite inspection and interview with project representative it is confirmed that the metering system, Lekela Egypt Wind Power BOO (S.A.E.) is responsible for adjust, operate, check and maintain the Primary Meters and the Back Up Meters. The Lekela Egypt Wind Power BOO (S.A.E.) and EETC both have the right to read either meter and the two meters have the provisions to record on memory the accumulated kilowatt-hours. The results from the Main Meter is supplied by EETC on a monthly basis and found all the given information is correct, transparent and compliance with the registered PDD. As per the onsite inspection, it is found that Electricity generation is monitored instantaneously by the Project owner (Lekela Egypt Wind Power BOO (S.A.E.)) through SCADA (Supervisory Control and Data Acquisition) system at the site and is crosschecked using electricity sales invoices. Electricity data is aggregated monthly and presented as a summary in periodical monitoring report.

Data Recording and Archiving

As per the onsite inspection, desk review of supporting documents submitted by the PD and cross verification of EETC online information it is confirmed that energy generated by the Project and supplied to the national grid is monitored and recorded by a Data Management System at the on-site control centre. Collected data is cross-checked against relevant minutes of meetings as well as any other pertinent records concerning the electricity production upon which the invoices to EETC are prepared. Lekela Egypt Wind Power BOO (S.A.E.) ensures that the meter readings be readily available for verification.

Data was recorded electronically as well as on paper for backup. All the records or copies of these are kept by the project owner for verification purposes. All data collected as part of monitoring should be archived electronically and kept for at least 2 years after the end of the last crediting period. Verification team concluded that all the given information is correct, transparent and in compliance with registered PDD/12/.

As per the verification of SLD /18/ submitted by the PD, it is concluded that the wind turbine generator voltage level is 690VAC. The wind turbine generator nacelle is equipped with a dry type step-up transformer 0.69/33KV. The produced electricity from the wind turbine generators at the facility is collected via a medium voltage underground cable network at 33KV level from the wind turbine generators to the substation located medium voltage collector/switchgear. The collected generated electricity at the 33KV medium voltage collector/switchgear is evacuated to the off taker national grid

through 2 oil filled step up main power transformers each is 33/220KV, 175MVA then to 2 overhead transmission lines.

Calibration

As per the onsite inspection and calibration record/26/ submitted by the PD, it is confirmed that EETC is responsible for the equipment calibration and do this according to international standards. EETC installs and maintains all electricity metering equipment and associated transformers conforming to specifications set by EETC. The metering equipment is to be sealed in the presence of both Project Developer and EETC representatives. Seals can only be opened in the presence of Lekela Egypt Wind Power BOO (S.A.E.) and EETC representatives for inspection, testing or calibration. The measured electricity meter installed is bidirectional type with accuracy of 0.2s as per the submitted technical specification of energy meters (Main Meter and Back Up meters) and will be calibrated once in a year. The national entity entrusted by the Ministry of Electricity and Energy, and NREA to do so is the Egyptian Electricity Transmission Company (EETC). Details of calibration provided in the **appendix 02** of this report and found it correct, transparent and in compliance. As per the calibration certificate /26/, date of calibration is 06th April 2023 and its validity is till 05th April 2023 of meters.

Emergency preparedness:

As per the onsite interview and inspection of meters with project representative, verification team confirms that there is delay in calibration as per the registered monitoring frequency of the meters which once in every year. PD used the error factor as per the annex 60 GUIDELINES FOR ASSESSING COMPLIANCE WITH THE CALIBRATION FREQUENCY REQUIREMENTS para 4 and 5 in both Import and Export value for months January, February, March and upto 5th April 2023. As per the calibration certificate /26/, date of calibration is 06th April 2023 and its validity is till 05th April 2023.

Error Factor:

As per the annex 60 GUIDELINES FOR ASSESSING COMPLIANCE WITH THE CALIBRATION FREQUENCY REQUIREMENTS calculation is;

Net Generation: $\text{Export} * (1 - 0.2\%) - \text{Import} * (1 + 0.2\%)$

Verification Team also confirmed that the 0.2s is accuracy class of meters (both main meter and back up meter of both line) as per annex 60 guidelines the maximum permissible error of all the measuring instruments are specified by the respective manufacturers as their technical specification of meters.

Trainings:

Verification Team confirms that there are trainings provided to the employees to increase the quality, competence and skills of employees as per the onsite interview and desk review of Training records submitted by the PD. Total numbers of trainings are 07 (seven);

S. No.	Date of Training ⁷	Topic of Training	No. of attendees
1	04/02/2023	Fire Fighting	19
2	26/02/2023	Medium Voltage Switchgear	10
3	05/03/2023	HV Gas Insulated Switchgear	7
4	28/08/2023	First Aid	20
5	19/11/2023	Introduction + Over current Protection	7
6	28/11/2023	Transformer Protection	5
7	17/12/2023	Substation Automation System	7

Verification Team confirmed that both technical and safety trainings were provided by the PD to their employees.

QA/QC Procedures:

As per the onsite assessment and desk review verification team found the following QA/AC procedures for all the registered SDGs;

1. Total MWh delivered by the project to the grid is recorded by the export meters (main and backup) class 0.2s, calibrated once in a year as certified by the Egyptian Electricity Transmission Company (EETC).
2. The number of persons employed is mentioned in the plant register, which can be crossed checked with daily attendance register.
3. Calibration records are maintained at the O&M site office.

It is concluded that all the above QA/QC given information are deemed to be consistent with the registered PDD/12/ and applied methodology/11.1/

3.4.2.1 Data and Parameters fixed ex-ante or at renewal of crediting period

Verification Means	Desk Review and Onsite Inspection- MR version 01 and revised MR versions/14/ GS4GG PDD version 06 dated: 31/10/2022 /12/.			
Findings	No findings were raised in this parameter.			
Conclusions	Details of ex-ante parameters			
	Parameter	Unit	Description	Value
	EFOM, y	tCO ₂ e/ MWh	Operating Margin CO ₂ emission factor in year y	0.4815
	EFBM, y	tCO ₂ e/ MWh	Build Margin CO ₂ emission factor in year y	0.3313
	EFCM, y	tCO ₂ e/ MWh	Combined Margin CO ₂ emission factor in year y	0.444

⁷ Maximum trainings were provided on Sunday as the availability of trainer as per the interview during on-site inspection.

	Verification is done in accordance with the registered PDD /12/ and applied methodology ACM0002 Version 20.0 /11.1/. The values are obtained from the data generated by Egyptian Electricity Holding Company annual reports.
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3.4.2.2 Data and Parameters monitored

Verification Means	Desk Review Assessment and Onsite Inspection- latest revised MR /14/, PDD version 06 dated: 31/10/2022 /12/, applied methodology ACM0002 v20/11.1/ and supporting document i.e. Calibration Records /26/, JMRs /22/, Invoices /27/, Employment Record /20/, Training Records /19/ for the current Monitoring Period.																						
Findings	CAR#02 was raised and was further closed successfully. Finding is about inconsistency in Net Generation data with invoices submitted by the PD. Refer Section 06 for detailed analysis of the finding raised																						
Conclusions	Details of monitored parameter: <table border="1"> <thead> <tr> <th>Parameters</th><th>Source</th><th>Value Applied</th><th>Purpose of Data</th></tr> </thead> <tbody> <tr> <td>EGy</td><td>Direct measurement or calculated based on measurements from more than one electricity meters</td><td>1,045,446 MWh</td><td>Continuous measurement and monthly recording</td></tr> <tr> <td>ER_y</td><td>Calculated as per “Tool to calculate the emission factor for an electricity system,”.</td><td>464,178 tCO₂e</td><td>Calculation of baseline emissions</td></tr> <tr> <td>Quantitative employment,</td><td>Training Records (HSE & HR)</td><td>18 people Employed 07 trainings</td><td>Continuation of regular trainings/works hops for</td></tr> <tr> <td>Quality of Employment</td><td>Salary Slip of the project</td><td>3,130,521⁸Income</td><td></td></tr> </tbody> </table>			Parameters	Source	Value Applied	Purpose of Data	EGy	Direct measurement or calculated based on measurements from more than one electricity meters	1,045,446 MWh	Continuous measurement and monthly recording	ER _y	Calculated as per “Tool to calculate the emission factor for an electricity system,”.	464,178 tCO ₂ e	Calculation of baseline emissions	Quantitative employment,	Training Records (HSE & HR)	18 people Employed 07 trainings	Continuation of regular trainings/works hops for	Quality of Employment	Salary Slip of the project	3,130,521 ⁸ Income	
Parameters	Source	Value Applied	Purpose of Data																				
EGy	Direct measurement or calculated based on measurements from more than one electricity meters	1,045,446 MWh	Continuous measurement and monthly recording																				
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Quantitative employment,	Training Records (HSE & HR)	18 people Employed 07 trainings	Continuation of regular trainings/works hops for																				
Quality of Employment	Salary Slip of the project	3,130,521 ⁸ Income																					

⁸ It is deemed to be transparent that the given cumulative income of workers E£3,130,521 is as per the Egyptian minimum wages through independent surfing of weblink <https://wageindicator.org/salary/minimum->

	Income generation.	employees.	(Cumulative income of workers in E£)	employees & O&M staff
	Parameters	Value Applied	Relevant SDG Indicator	Assessment
	EG _y (Quantity of electricity generated and supplied by the project power plan to the grid in year y (MWh))	1,045,446 MWh	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	Based on the site visit observation, JMRs/22/ & Invoices /27/ and single line diagram/18/; the verification team has found that 4 Energy meters, 2 Energy meters (1 main meter and 1 backup meter in each two line. Line 1 has one Main Meter (S. No: 02891378) and Backup Meter (S.No. 02914086) Line 2 has One Main Meter (S. No: 02891300) and Backup Meter (S.No. 02913923) The details assessment is provided)above in section 3.4.2 of this report. Based on the monthly invoices was raised by PP. These invoices and monthly bills are used for cross checking the meter readings taken for the respective project activity.

[wage/egypt#:~:text=The%20current%20minimum%20wage%20in.valid%20on%20January%201%2C%202024](#). The minimum wages are 3500 Egyptian pounds (E£) per month which is revised recently on 01/05/2024 to 6000 E£ per month and the distinction of the salary for different type of skill level is not provided.

And also verified through the [Ministry of Planning and Development of Egypt](#) and found for current monitoring period it is in compliance with Egyptian law.

			The Project representatives are available during meter reading, the calculations of net electricity supplied to grid is completely under purview of (EETC officer). In addition, the measured electricity meter installed is bidirectional type with accuracy of 0.2s and will be calibrated once in a year. The national entity entrusted by the Ministry of Electricity and Energy, and NREA to do so is the Egyptian Electricity Transmission Company (EETC). Assessment team has checked the monthly data (export and import) /15/ and crosschecked with the invoices /27/ and found that values used in the MR /14/ and ER sheet /15/ are correct and consistent. Hence the verification team was able to conclude that this parameter is being monitored and recorded as per the approved GS PDD/12/ monitoring plan. Monitoring equipment: Monitoring equipment details have been verified from the site visit observations meter calibration certificate/26/ and found consistent with the MR /14/. There was no meter change during this monitoring period.
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			Is accuracy of the monitoring equipment as stated in the GS PDD? Yes, the accuracy of the energy meters is 0.2s as verified from site visit observation and meters calibration certificates/26/ which is in compliance with the approved GS PDD /12/ monitoring plan and hence accepted by VVB. Calibration frequency/interval: As per the approved GS PDD version 06, dated: 31/10/2022 /12/ monitoring plan, all interface meters and consumer meters shall be tested at least once in a year as certified by the Egyptian Electricity Transmission Company (EETC). So, as per the calibration report all energy meters are calibrated on 06/04/2023 and their calibration validity is till 05/04/2024. Last calibration validity was 12/12/2022. Hence, verification team confirms there is delay in calibration and PD use error factor as <u>the UNFCCC annex 60: Guidelines for assessing compliance with the calibration frequency requirements/10/.</u> Is calibration validity for this entire monitoring period:
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				Yes, the calibration is valid for the meters as per the registered monitoring plan up to 05/04/2024. QA/QC procedure: The verification team has accepted the measurement methods, aggregation approach and data used for emission reduction calculations as per the desk review of calibration record/26/, JMRs/22/, Invoices/27/ and applied methodology/11.1/ and on-site inspection/34/
	Air Quality (CO2 emission reduction and reduction in dust generation)	464,178 tCo ₂ e	13.2: Integrate climate change measures into national policies, strategies and planning	Assessment Team has checked the GHG emission reduction calculation /15/ for this monitoring period and found the emission reduction value to be correct for this monitoring period. This parameter is computed by multiplying the baseline electrical energy (EG_{PJ, Facility,y}) expressed in MWh/Yr of electricity generated by the renewable power unit by an appropriate emission factor. The calculation is clearly presented in the Emission Reduction Sheet/15/, and it

				indicates that the emission reduction achieved during the current monitoring period is 464,178 tCO₂e. The assessment team has reviewed this information and confirmed its accuracy. Consequently, the emission reduction calculation is considered correct and in compliance with the necessary standards. As per the approved GS PDD/12/ emission reductions estimated as 531,674 tCO₂e for current monitoring period. However, the actual emission reductions achieved for this monitoring period is 464,178 tCO₂e which is only 12.7 % lower than the estimated GS VERs. The PLF achieved by the project activity during the current verification period is 47.36% which is 12.7% lower than the estimated PLF of 54.25% as per the registered PDD. So, this does not affect the additionality of project.
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				Project Developer stated that there is difference in net electricity generation (Actual net generation during current monitoring period: 1,045,446 MWh and estimated net generation for current monitoring period: 1,197,600 MWh) is due to the variation in the wind speed during in the current monitoring period, which is a natural uncontrolled phenomenon and may vary. It is beyond the control of PD. VVB accepted this justification because the difference is only 12.7% (lower than estimated) only between the actual and estimated generation, which is within the benchmark and found it has no impact on the project additionality.
	Quantitative employment and Income generation	18 E£ 3,130,521 ⁹	SDG 8.5.1: Decent Work and Economic Growth	18 employees are working for the project activity i.e., 18 jobs have been created under the project activity. Further the employees can be classified in following categories:

⁹ The income generation mentioned is cumulative value.

				Permanent Employees	12
				Temporary Employees	06
				Skilled Employees	15
				Unskilled Employees	01
				Semi Skilled	02
				Male Employees	16
				Female Employees (Due to Remote Location female employees do not prefer to work)	02
				Average minimum wages of each employee are 14,493.15 E£.	
				(3,130,521 E£/12 Months/ 18employees) which is more than the Egyptian minimum wages law as per the Ministry of Planning and Economic Development of Egypt and also same has been verified through website WageIndicator.org .	
				. However, verification team also confirmed that the salaries are vary employee to employee as per the type and categories of employment, also with experience basis as per the interview and on-site inspection.	

				The same has been verified from the site visit inspection/31/ and /34/, attendance register available at the site and employment records/20/ submitted by Project representative. The skilled employees work for wind technology and WTGs implementation, operating and maintenance of the plant. One unskilled person is office boy. Semi-skilled persons are Drivers. Total income generation in the current monitoring period is E£ 3,130,521 including O&M cost. The assessment team found this information acceptable and verified it as per the salary slips shown during the onsite inspection. Training Attendance sheets/19/ & Employee Records/20/ also submitted by Project representative. Thus, verification team was able to confirm that quality of, quantitative employment and income generation has improved due to the project activity and it is also independently verified through the given site WageIndicator.org and Ministry of Planning and Development of Egypt.
	Quality of employment	7	SDG 8.5: (Decent Work and	As per the onsite inspection/34/, /35/ and training records /19/ provided by Project

			Economic Growth)	representative along with the training schedule, VVB confirms that total 7 trainings are given to the employees as per the requirement in the current monitoring period. The assessment team found this information acceptable and verified it using Training Attendance sheets submitted by Project representative. Thus, verification team confirms that the quality of employment has improved due to the project activity.

SDG Indicator 7.2: Affordable and Clean Energy

EG_y: Quantity of electricity generated and supplied by the project power plant to the grid in year y

The parameter is derived by calculating the variance between the export and import values, which are measured using a bi-directional meter.

Net electricity supplied to the grid by the project plant in a given month = $\text{Export}_{\text{KWh}} - \text{Import}_{\text{KWh}}$

Error Factor is applied for the current monitoring period as there is delayed calibration

Net Generation= $\text{Export} * (1-0.2\%) - \text{Import}*(1+0.2\%)$

From	To	Export (MWh)	Import (MWh)	Net Energy Export (MWh)	Remark
1-Jan-23	31-Jan-23	50,193.79	95.74	50,098.05	As per JMR

	1-Jan-23	31-Jan-23	50,093.40	95.93	49,997.47	With error factor
	1-Feb-23	28-Feb-23	84,723.58	34.50	84,689.08	As per JMR
	1-Feb-23	28-Feb-23	84,554.13	34.57	84,519.56	With error factor
	1-Mar-23	31-Mar-23	50,181.12	193.60	49,987.52	As per JMR
	1-Mar-23	31-Mar-23	50,080.76	193.99	49,886.77	With error factor
	1-Apr-23	30-Apr-23	85,284.67	135.87	85,148.80	As per JMR
	1-Apr-23	5-Apr-23	12,750.14	23.23	12,726.91	As per daily generation data
	1-Apr-23	5-Apr-23	12,724.64	23.28	12,701.37	With error factor
	6-Apr-23	30-Apr-23	72,534.53	112.64	72,421.89	As per daily generation data
	1-Apr-23	30-Apr-23	85,259.17	135.92	85,123.25	Total for April 2023
	01-May-23	, 31-May-2023	76,758.53	139.39	76,619.14	As per JMR
	01-Jun-23	30-Jun-23	1,11,874.05	40.13	1,11,833.92	As per JMR
	01-Jul-23	31-Jul-23	1,26,320.83	21.12	1,26,299.71	As per JMR
	01-Aug-23	31-Aug-23	1,26,731.97	9.86	1,26,722.11	As per JMR
	01-Sep-23	30-Sep-23	1,13,964.22	30.98	1,13,933.24	As per JMR
	01-Oct-23	31-Oct-23	97,853.89	61.95	97,791.94	As per JMR
	01-Nov-23	30-Nov-23	68,044.42	57.73	67,986.69	As per JMR

	01-Dec-23	31-Dec-23	59,944.90	164.03	59,780.87	As per JMR
	Total Net generation value as per the JMRs is 10,50,494 MWh. And, total net generation value as per the Invoice 10, 45,716MWh. Hence, as per the conservative approach, Project Developer applied the value of Invoice for Net generation (MWh), which is verified by the verification team and found it correct. Therefore, Net generation for the current monitoring period is 10,45,446MWh. Verification team confirmed that the given value is correct and compliance with the ER sheet and JMR and Invoices submitted by the PD. And thus, total emission reduction for the current monitoring period is $ERs = 10,45,446(MWh) * 0.444(tCO_2e/MWh)$ $= 4,64,178 tCO_2e. \text{ which is consistent with the ER sheet.}$ Verification Team confirmed that error factor applied is as per the UNFCCC Annex 60 Guideline for assessing compliance with the calibration frequency requirements. As per the assessment of calibration record submitted by the PD, it is found that there is no error in result of calibration hence, PP applied the Applying the maximum permissible error of the instrument to the measured values, 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; The Energy meters used to record the values of export/import are of accuracy class 0.2s are used to measure the net electricity generated. The electricity generated by the plant is dispatched to the same transmission line that connects the collected substation with the concessionaire substation or the grid connection point. At this grid connection point, two meters (main and backup) are installed that measure the total net electricity. The assessment Team physically inspected the energy meters installed at site/26/ and verified the Serial numbers and confirmed the authenticity of the meter details. The common metering point at substation consists of both main & backup having accuracy class of 0.2s and maker is Elster. The wind turbine generator voltage level is 690VAC. The wind turbine generator nacelle is equipped with a dry type step-up transformer					

	0.69/33KV. The produced electricity from the wind turbine generators at the facility is collected via a medium voltage underground cable network at 33KV level from the wind turbine generators to the substation located medium voltage collector/switchgear. The collected generated electricity at the 33KV medium voltage collector/switchgear is evacuated to the off taker national grid through 2 oil filled step up main power transformers each is 33/220KV, 175MVA then to 2 overhead transmission lines. Additionally, the assessment team scrutinized the Joint Monitoring Reports (JMRs) issued /22/. They also cross-checked the power exported values with the invoices submitted by the (PD) /27/ and found them to be consistent with the JMRs issued. The meters are calibrated once in a year and the calibration of the meters (calibration details added in appendix 2) are verified from calibration certificates/26/ provided and is still applicable for current monitoring period. EETC is responsible for the equipment calibration. Assessment team verified and confirmed that the calibration under the current monitoring period was performed on 5/04/2023 on the basis of calibration certificate provided by PD/26/. the calibration certificate signed between the EETC and Lekela Egypt Wind Power BOO (S.A.E.) was also verified during the on-site inspection. During physical inspection of the site, the assessment team also interviewed the site in-charge, O&M representative /34/, plant manager along with other technical and non-technical staff, an confirmed the calibration details, technical specifications (added in appendix 1), O&M details, etc. It is to note that arrangement of meters, accuracy class of meters and calibration frequency is under the purview of the Ministry of Electricity and Energy and New and Renewable Energy Authority (NREA). Since 100% data was verified, the assessment team can ascertain that the values for the emission reductions calculated are accurate and found correct. SDG Indicator SDG 8.5.1: Decent Work and Economic Growth
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	The parameter under consideration is the quantitative employment, quality of employment and income generation. The parameter is evaluated on the basis of number of trainings provided to employees & O&M staff, the number of project employees with Number of male/female, permanent/temporary, age and person with disabilities. • In this specific case, the data reveals that there was a total of 18 employees during this monitoring period. This workforce consisted of 06 temporary employees and 12 employees hired on permanent basis. The data was verified during site inspection as well as from the employment record/20/. • Further VVB has crosschecked the number of persons employed during on site visit by means of attendance register and physical interviews /34/. The Project thus provides employment opportunities and pays salaries and welfares and also helps to increase the income and living standards of the employees. SDG indicator 8.5.1: Decent work and economic growth A total of 7 trainings were provided during the current monitoring period. The assessment team found this information acceptable and verified it using the salary slips, Training Attendance sheets & Employee Records submitted. Details of training topics are mentioned in an Excel spreadsheet provided by PD /19/. SDG Indicator 13.2.1: Climate Action ER_y: Emission reductions achieved The baseline emissions are the product of electrical energy baseline EG_y expressed in MWh of electricity produced by the renewable generating unit multiplied by the emission factor. The calculation is clearly presented in the Emission Reduction Sheet, and it indicates that the emission reduction achieved during the current monitoring period is 464,178 tCO₂e. The assessment team has reviewed this information and confirmed its accuracy. Consequently, the emission reduction calculation is considered correct and in compliance with the necessary standards.
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	Additionally, employee interviews /34/ were conducted during physical audit as part of the verification procedure.
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3.4.2.3 Implementation of Sampling Plan

Verification Means	N/A
Findings	N/A
Conclusions	This Wind (Renewable) project activity. Therefore, as per applied Methodology ACM0002 version 20 sampling is not applicable for the given project activity.

3.4.3 Compliance with the calibration frequency requirements for measuring instruments

Verification Means	Desk Review and Onsite Inspection- The assessment team verified the updated MR /14/, PDD version 06 dated: 31/10/2022 /12/, applied methodology ACM 0002 and other supporting documents i.e., Calibration Records /26/ applicable for the current Monitoring Period.
Findings	No findings were raised in this parameter.
Conclusions	Verification is done in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology /11.1/. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. The measured electricity meters installed is bidirectional type with accuracy of 0.2s and is calibrated once in a year, as mentioned in the Monitoring report/14/. Calibration frequency was cross verified via calibration certificates /26/ and was found to be in line with the registered PDD /12/ and PPA /23/. The metering arrangement, accuracy class of meters, calibration frequency is under control of EETC (Egyptian Electricity Transmission Company) and PP do not have any control on it. PP is getting value of net electricity supplied to third party and the same is considered as the monitoring parameter. The billing is raised based on substation meters.

	Calibration is conducted by Egyptian Electricity Transmission Company (EETC), which is the national entity entrusted by the Ministry of Electricity and Energy, and NREA (New and Renewable Energy Authority). The data is cross-verified against values of sold electricity in the joint meter reading /22/ statement. EETC installs and maintains all electricity metering equipment and associated transformers conforming to specifications set by EETC. As mentioned in the Monitoring report/14/, the validity of the calibration for energy meters was up to 12/12/2022 and then the meter was calibrated on 06/04/2023, during the current monitoring period. As per interview, verification Team confirmed that there is delay in calibration due to some procedural work from the end of Egyptian Electricity Transmission Company (EETC), as there is no control of Project Developer on the calibration. However, there is no error found in result of delay calibration as per the submitted calibration record. The PD has applied the with error factor of 0.2% from 01/01/2023 to 05/04/2023 as per the annex 60 GUIDELINES FOR ASSESSING COMPLIANCE WITH THE CALIBRATION FREQUENCY REQUIREMENTS)/10/. The data has been verified and confirmed from the calculation provided in ER sheet and it has been found to be in accordance with Annex 60, Guidelines for assessing compliance with the Calibration Frequency Requirements. During the verification of project activity, accuracy of all metering equipment's has been checked and found appropriate by assessment team during onsite visit /31/. The installation and working conditions of the meters were checked during the site inspection /31/ and were found to be satisfactory as compared to the provision of calibration/testing frequency, prescribed under the GS4GG PDD/12/.
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3.5 Assessment of data and calculation of emission reductions or net removals

3.5.1 Calculation of baseline values or estimation of baseline situation of each SDG Impact

Verification Means	Desk Review and Onsite Inspection- The assessment team verified MR /14/, PDD version 06 dated: 31/10/2022/12/, and other supporting documents i.e., PPA /32/ & Validation Report /30/.								
Findings	No findings were raised in this parameter.								
Conclusions	Verification is done in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology /11.1/. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. SDG 13- The baseline emissions are the product of electrical energy baseline $EG_{PJ,y}$ expressed in MWh of electricity produced by the renewable generating unit multiplied by an emission factor. $BE_y = EG_{PJ, facility,y} (MWh/yr) \times EF_{grid,CM,y} (tCO_2/MWh)$ Where, $EG_{PJ, facility,y}$ = Total quantity of net electricity delivered to the grid. $EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y $EF_{grid,CM,y} = 0.444 \text{ tCO}_2\text{e/MWh.}$ $BE_y = 1,045,446 (MWh/yr) \times 0.4440 \text{ tCO}_2\text{/MWh} = 464,178 \text{ tCO}_2\text{/year}$ <table border="1"> <tr> <th colspan="2">Estimated Emission Reduction as in GS PDD for the equivalent period of the current Monitoring period, 01/01/2023 to 31/12/2023 (both dates included):</th></tr> <tr> <td>Monitoring Period Start Date</td><td>01/01/2023</td></tr> <tr> <td>Monitoring Period End Date</td><td>31/12/2023</td></tr> <tr> <td>Days in Current Monitoring period</td><td>365</td></tr> </table>	Estimated Emission Reduction as in GS PDD for the equivalent period of the current Monitoring period, 01/01/2023 to 31/12/2023 (both dates included):		Monitoring Period Start Date	01/01/2023	Monitoring Period End Date	31/12/2023	Days in Current Monitoring period	365
Estimated Emission Reduction as in GS PDD for the equivalent period of the current Monitoring period, 01/01/2023 to 31/12/2023 (both dates included):									
Monitoring Period Start Date	01/01/2023								
Monitoring Period End Date	31/12/2023								
Days in Current Monitoring period	365								

	Annual GS-VERs as per GS PDD	531,674tCO ₂ e
	Estimated Emission Reduction as in GS-VERs PDD for the equivalent period of the current Monitoring period	$= (\text{Annual Estimated GHG emission reductions as per revised GS PDD} / \text{Total days in a year}) * \text{days in current monitoring period}$ $= (531,674 / 365) * 365$ $= 531,674 \text{ (round down)}$ (tCO_2e)
SDG 7- The Values estimated in ex ante calculation of approved PDD for this monitoring period is 1,197,600 MWh. SDG 8- Total 1 training were to be conducted and 15 employees were to be hired as per ex-ante values estimated in ex ante calculation of approved PDD for this monitoring period. The Data given in the MR /14/ and ER sheet /15/ was verified via Registered PDD /12/ during desk review stage and was found to be correct and transparent.		

3.5.2 Calculation of project value or estimation of project

3.5.3 Situation of each SDG Impact

Verification Means	Desk Review and Onsite Inspection-The assessment team verified latest revised MR /14/, PDD version 06 dated: 31/10/2022 /12/applied methodology ACM 0002 V20.0/11.1/ and other supporting documents i.e., Validation Report /30/ JMRs /22/, Invoices /27/, Employment Generation data /20/, Training Records /19/ for the current Monitoring Period.
Findings	No findings were raised in this section
Conclusions	Verification is done in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology /11.1/. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Monitored parameters for the project is-

SDG 13:

Baseline emissions:

It includes only CO₂ emissions from electricity generation in fossil fuel fired power plants 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 addition of new grid-connected power plants. The baseline emissions are to be calculated as follows:

$$BE_y = EG_{PJ, \text{ facility}, y} \times EF_{\text{grid}, CM, y}$$

Where;

$EG_{PJ, \text{ facility}, y}$ = Total quantity of net electricity delivered to the grid.

$EF_{\text{grid}, CM, y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y

$$EF_{\text{grid}, CM, y} = 0.444 \text{ tCO}_2/\text{MWh}.$$

$$BE_y = 1,045,446 \text{ MWh/Yr} \times 0.4440 \text{ t CO}_2/\text{MWh} = 464,178 \text{ tCO}_2/\text{year}.$$

Project Emissions:

As per the ACM0002 ver-20.0/11.1/, Project Emission for most renewable energy power generation project activities, $PE_y = 0$. However, some project activities may involve project emissions that can be significant.

These emissions are accounted for as project emissions by using the following equation:

$$PE_y = PE_{FF, y} + PE_{GP, y} + PE_{HP, y}$$

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

$PE_{FF, y}$ = Project emissions from fossil fuel consumption in year y (tCO₂/yr)

$PE_{GP, y}$ = Project emissions from the operation of geothermal power plants due to the release of non-condensable gases in year y (tCO₂e/yr)

$PE_{HP, y}$ = Project emissions from water reservoirs of hydro power plants in year y (tCO₂e/yr).

	As the project activity is the installation grid-connected wind power plant/unit and does not involve any project emissions from fossil fuel, operation of dry, flash steam or binary geothermal power plants, and from water reservoirs of hydro power plants. Therefore, project emissions equal to zero and thus, $PE_y = 0$. Leakage Emissions: As per applied methodology ACM0002, version 20.0/11.1/ Leakage emissions are not considered for the project activity. SDG 07: EG_{PJ,y}: During current monitoring period, the project has generated 1,045,446 MWh affordable and clean energy. SDG 08: Quality of Employment - 07 Trainings Quantitative employment and income generation - 18 employees & Cumulative income of workers is E£ 3,130,521. The electricity generated was verified via JMRs /22/ and crosschecked with the invoices /27/ provided by the PD and the employment generated was checked via O&M contract /24/ & employment records /20/, training records /19/ of employees. Since 100% data was verified, the assessment team can ascertain that the values for the emission reductions calculated are accurate and in line with ISO 14064- 2 clause 6.7 /8.1/.
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3.5.4 Calculation of Leakage

Verification Means	Desk Review and Onsite Inspection- latest revised MR/14/, PDD/12/, and supporting document along with applied methodology ACM0002 Version 20.0 /11.1/ as this a large-scale wind project etc.
Findings	No findings were raised in this parameter.

Conclusions	Verification is done in accordance with the registered PDD /12/ and applied methodology ACM0002 Version 20.0 /11.1/. Leakage (LE_y) = 0 As per Paragraph 53 of the consolidated methodology ACM0002 Version 20 /11.1/, there is no leakage emission considered through the renewable project electricity generation.
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3.5.5 Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

SDG and SDG Impact	Baseline Estimate	Project Estimate	Net Benefit	Conclusion
13- Climate Action	464,178 tCO ₂ e	0	464,178 tCO ₂ e	Assessment team conducted desk review and an on-site inspection and verified the data reported in the ER sheet /15/ and MR /14/ for current monitoring period via JMRs /22/ and invoices /27/ raised monthly and found it to be correct.
7- Affordable and Clean	0	1,045,446 MWh	1,045,446 MWh	Assessment team verified Net Electricity generated in the current monitoring period via JMRs /22/ that were further crosschecked via invoices /27/ present onsite and found it to be correct.
8- Decent Work and Economic Growth	0	7 Trainings 18 employees The income to all the on roll and off role	7 Trainings 18 employees The income to all the on roll and off role	Assessment team verified total employment generated and trainings conducted in the current monitoring period via employment records, /20/ of employees and training

				records /19/ and were found to be correct.
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3.5.6 Comparison of actual emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

SDG and SDG Impact	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period	Conclusion
13- Climate Action	531,674 t CO ₂ for the monitoring period	464,178 tCO ₂ e	Assessment team conducted desk review and an on-site inspection and verified the Net Electricity generation reported in the ER sheet /15/ and MR /14/ for current monitoring period via JMRs /22/ and invoices /27/ raised monthly. Total employment generated and trainings conducted in the current monitoring period were verified via employment records/20/, samples of salary slips presented during site visit and training records /19/ and were found to be correct. Verification Team also go through the weblink of WageIndicator.org , Ministry of Planning and Development of Egypt and it is deemed that cumulative income of workers is as per the Egyptian minimum wages law.
7- Affordable and Clean	1,197,600 MWh for the monitoring period	1,045,446 MWh	
8- Decent Work and Economic Growth	01 Trainings- minimum 15 employees The income to all on roll and off-role skilled & unskilled workers is made in line with minimum wage requirements and contractual agreements	7 trainings 18 employees Cumulative income of workers is E£ 3,130,521.	

3.5.7 Remarks on difference from estimate value in registered PDD

Verification Means	Desk Review and Onsite Inspection- The assessment team verified latest revised MR /14/, PDD /12/, and other supporting documents i.e., PPA /23/ & Validation Report /30/																																								
Findings	No findings were raised in this parameter.																																								
Conclusions	The ex-ante estimates value of the emission reductions for the monitoring period as per the registered PDD /12/, is 531,674 tCO₂e and the actual emission reductions achieved for the monitoring period is 464,178 tCO₂e. The table below defines the estimated and achieved values of the parameters: <table border="1"> <thead> <tr> <th>SDG Indicator</th><th>SDG</th><th>Values Estimated Annually</th><th>Values Estimated for current MP (365 days)</th><th>Values achieved for Current MP (365 days)</th><th>Unit</th></tr> </thead> <tbody> <tr> <td>Affordable and Clean Energy</td><td>SDG 7</td><td>1,197,600</td><td>1,197,600</td><td>1,045,446</td><td>MWh</td></tr> <tr> <td>Decent Work and Economic Growth</td><td>SDG 8</td><td>15</td><td>15</td><td>18</td><td>Number of employees</td></tr> <tr> <td>Decent Work and Economic Growth</td><td>SDG 8</td><td>01</td><td>01</td><td>07</td><td>Number of Trainings</td></tr> <tr> <td>Decent Work and Economic Growth</td><td>SDG 8</td><td>In line with minimum wage requirement and the contractual agreement</td><td>In line with minimum wage requirement and the contractual agreement</td><td>E£ 3,130,521.</td><td>Cumulative income of workers</td></tr> <tr> <td>Climate Action</td><td>SDG 13</td><td>531,674</td><td>531,674</td><td>464,178</td><td>tCO₂e</td></tr> </tbody> </table>					SDG Indicator	SDG	Values Estimated Annually	Values Estimated for current MP (365 days)	Values achieved for Current MP (365 days)	Unit	Affordable and Clean Energy	SDG 7	1,197,600	1,197,600	1,045,446	MWh	Decent Work and Economic Growth	SDG 8	15	15	18	Number of employees	Decent Work and Economic Growth	SDG 8	01	01	07	Number of Trainings	Decent Work and Economic Growth	SDG 8	In line with minimum wage requirement and the contractual agreement	In line with minimum wage requirement and the contractual agreement	E£ 3,130,521.	Cumulative income of workers	Climate Action	SDG 13	531,674	531,674	464,178	tCO ₂ e
SDG Indicator	SDG	Values Estimated Annually	Values Estimated for current MP (365 days)	Values achieved for Current MP (365 days)	Unit																																				
Affordable and Clean Energy	SDG 7	1,197,600	1,197,600	1,045,446	MWh																																				
Decent Work and Economic Growth	SDG 8	15	15	18	Number of employees																																				
Decent Work and Economic Growth	SDG 8	01	01	07	Number of Trainings																																				
Decent Work and Economic Growth	SDG 8	In line with minimum wage requirement and the contractual agreement	In line with minimum wage requirement and the contractual agreement	E£ 3,130,521.	Cumulative income of workers																																				
Climate Action	SDG 13	531,674	531,674	464,178	tCO ₂ e																																				

	For SDG 13, Since actual emission reduction is lower than the estimated value by 12.7% The lower value of achieved emission reduction is because the plant underwent scheduled maintenance. The generation is also subject to climatic conditions which is beyond the control of Project Proponent. The monitoring report provided by Project Developer mentions that the net electricity generated during January, March and December is low due to climatic conditions or low wind season and for the same PD also submitted SCADA records of wind speed/29/. Records of Wind speed found transparent and point towards high wind speed during the given months. Thus, VKU is of opinion that the facts stated by PD is correct and calculations for ER is done correctly and in line with applied methodology. All the data have been made available to the assessment team by PD during site visit/31/ and as supporting evidences which have been monitored as per required monitoring frequency. The assessment team has checked and confirmed the emission reduction calculations in the spreadsheet and found to be accurate. The monitoring report /14/ is supported by emission reduction spreadsheet /15/. The consistency and formula were verified and found to be accurate. VKU is of the opinion that this method of calculation of emission reductions is accurate and results in conservative estimation of emission reduction and is in line with the applicable GS requirements set out in section 12.13 clause 12.13.2 of GS Standard version 01 and that the verification of the GHG statement was conducted in accordance with ISO 14064-3; 2019 /8.2/.
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3.6 Safeguards Reporting

Assessment Team confirms that project representative has provided all the evidences (employment record/20/) to verify the safeguarding principles that are added in the monitoring plan. Assessment Team concluded that project representative provided all required information as per the Template Guide- MR v1.1 and they are correct and in compliance with GS4GG Safeguarding Principles Requirement v2.1 dated: 29/06/2023/3/.

Principles	PD Mitigation Measures	VVB Opinion on Mitigation Measures added to the Monitoring Plan
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Principle 2. Gender Equality	The project proponent is committed to the employee's equal pay for equal work during all phases of the project. Please refer section D.2 above, same has been considered as monitoring parameter under SDG 8 (8.5.1)	The project proponent is committed to the employee's equal pay for equal work during all phases of the project. PD is monitoring this parameter under SDG 8 (8.5.1)
Principle 6.1 Labor Rights	The Project Developer ensures the training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures.	The Project Developer ensures the training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures.
Principle 9.5 Hazardous and Non-hazardous Waste	The waste is disposed to the waste handlers and the firm is complying with all the local laws for monitoring and disposal.	The project has the provision of disposing the waste to the waste handlers and the firm comply with all the local laws for monitoring and disposal. However, there was no generation of hazardous or non-hazardous waste during the current monitoring period.
Hence VVB is of opinion that PD has compliance with all the safeguarding principles that are declared in the monitoring plan in the registered PDD & it is deemed satisfactory.		

3.7 Stakeholder inputs and legal disputes

3.7.1 List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.

During desk review, Assessment team checked the procedures mentioned in MR /14/ and during onsite inspection cross verified the same via interviews of site personnel and stakeholders /34/ that- as a part of continual improvement and feedback process from stakeholders- PD has kept grievances register in the main office, which comes under the security department and for stakeholders to provide their feedback on the project and project related issues. Moreover, the grievances during the current

monitoring period were majorly received through calls and emails/21/. At some places, boxes have also been kept by PD to receive the grievances from stakeholders.

The places of grievance box are;

1. The WBWF Construction Camp.
2. The Entrance Gate of Ras Ghareb local branch of The National Council For Childhood & Motherhood
3. Al-Mogammae Square – Second biggest square in Ras Ghareb city

In the current monitoring period, 4 grievances have been received to the PD via the email and phone call from stakeholders and these grievances were verified during onsite inspection /34/ from the grievance record provided by PD /21/. Verification Team found there are no grievances on the grievance register/21/ as main office is very far from human population; people prefer email and phone calls to register their issues and feedback. The grievances were categorized as “social” and were received from the workers who were not receiving timely salaries from O&M entity. However, the complaints were successfully resolved and closed as per the onsite verification of grievances came on the email.

The details of four grievances are;

S.No.	Types of Grievances and associated department	Dated Grievance received	Brief of Complaints	Status	VVB assessment
01	Social All grievances are belonging to the contractor hired by the O&M entity	02/02/2023 (by phone call)	The bedwin workers (desert dweller) not receiving their salaries	closed	As per onsite interview with the O&M entity (Mr. Mohamed- El-Ahmar), plant manager (Mustafa Abdl Hadi) and salary record, verification team confirmed that the all issues are resolved and found that these issues were only faced by the workers only for three months (February,
02		23/03/2023 (call and email)	Workers Salary Issue	closed	
03		31/03/2023 (call and email)	Workers Salary Issue	closed	

					March and June). These
04		06/06/2023 (call and email)	The security team did not receive their monthly salary	closed	workers were hired on daily basis by the contractor, which is hired by the O&M entity. Hence, they were not directly interviewed by the assessment team. Rather, the assessment team interviewed the O&M personnel to confirm that the salary issues of workers are now resolved and successfully closed.

Verification team finally concluded that grievance mechanism was implemented in accordance with the design certified DD and any feedback given by stakeholders as part of the project's grievance mechanism was recorded, suitably addressed and included in the MR as per the GS4GG validation and verification standard v1.0, para 9.4.8.

3.7.2 Report on any stakeholder mitigations that were agreed to be monitored.

During onsite inspection /31/ Assessment Team verified grievance register /21/ placed on site and conducted personnel interviews /34/ and concluded that there was 4 negative feedback logged during the current monitoring period. The stakeholders interviewed are mentioned in section 2.2 of this report. The grievances were received via calls and emails during the current monitoring period. Based on the on-site interview from local stakeholders/34/ and verification of the grievance records/21/, Verification team concludes that the grievances received were successfully resolved and closed. VKU has taken prior permission from the stakeholders interviewed that the details of the stakeholders will be kept confidential.

3.7.3 Details of legal contest that has arisen with the project during the monitoring period

Assessment Team confirms that the given GS4GG project “Wast Bakr Wind Farm Project” is in compliance with the Host Country “Egypt” legal environmental, ecological and social regulations as per requirements mentioned in section 7.11 at time of validation for design certification for standalone project activity of validation and verification standard v1.0 /5.1/ and there is no legal challenge that has arisen claiming a project is not in compliance with regulation, during certification process. Also independently cross verify <https://disclosures.ifc.org/project-detail/ESRS/40137/lekela-eg-wind-1>, <https://www.ebrd.com/work-with-us/projects/psd/lekela-wind-boo.html> and https://www.irena.org/-/media/Files/IRENA/Agency/Publication/2018/Oct/IRENA_Outlook_Egypt_2018_En.pdf and found transparency.

3.8 Quality of evidence to determine emission reductions

As per the verification of ER calculation process, assessment team confirmed that all the parameters required for determination of emission reductions has been included in the revised Monitoring report /14/ and corresponding ER calculation spread-sheets /15/ are consistent with the applied methodology ACM0002 Version 20.0 /11.1/ and the monitoring plan contained in the registered PDD /12/. The parameters used are completely monitored as per the registered PDD /12/ in this monitoring period.

During desk review and onsite inspection, assessment team verified the reported ERs with the help of supporting documents e.g., JMRs, Invoices, and conducted personnel interviews to check sufficiency of data and its aggregation.

No significant, lack of evidence and missing data were detected during verification. Hence, the verification team confirms that the monitoring plan ensures required management of the monitoring system to ensure the quality of the monitored data. All internal data are subjected to QA/QC measures. The verification process for the same has been clearly described in above section of the report.

Emission reductions is calculated by the “Quantity of electricity generated and supplied by the project power plant to the grid in year y”, EG_y (MWh) (SDG Indicator 7). This parameter is monitored through the reading of electricity meters installed. The meters have accuracy of class 0.2s.

The electricity generated was checked via JMRs/22/ and were crosschecked with records of electricity sale (e.g., sales receipt/Invoices) /27/. Calibration of all the meters are undertaken once in a year, as mentioned in clause 14.1 and clause 14.2 of Power Purchase Agreement/23/.

On site personnel interview /34/ with the site personnel of the project activity confirms that the necessary QA/QC procedures are in place. Data management system is effective and reliable for the net

electricity supplied by the project plant/unit to the grid in year y. Hence assessment can conclude that the data and its management is in compliance with GS4GG validation/ verification standard /5.1/.

3.9 Management system and quality assurance

The final verification report passed a technical review and completeness check/ Quality check before being submitted to the client for forward submission to GS.

A technical reviewer qualified in accordance with VKU certification competency form which VKU.F8A. Competency Evaluation of Personnel (Internal Document) for validation and verification of GHG projects performed the technical review.

The comments raised during the technical review stage is thoroughly addressed by the assessment team. After the comments raised during this stage is successfully addressed, the Final verification report undergo VKU's Completeness/Quality Check before issuance.

3.10 Verification Assessment

All the data have been made available to the assessment team by PP during site visit /31/ and as supporting evidences during verification assessment which have been monitored as per required monitoring frequency. The means of verification for the values of parameters, used for baseline emission calculation, is described above in the report.

The verification team attests to correctness of the formulas and methodologies used to compute baseline emissions as per GS4GG Validation and Verification Standard V1.0 /5.1/. Applied default values, emission factors, and assumptions in the calculations are all reasonable. Verification team attests to the correctness of formulas and methodologies used in calculation of baseline emissions, assumptions, emission factors and default values applied in the calculations are justified.

SDG Indicators during this monitoring period 01/01/2023 to 31/12/2023 (both dates included) is:

SDG 13- Actual emission reduction achieved is 464,178 tCO₂e calculated by multiplying the unit of MWh produced by an emission factor. The value of emission factor is verified from the PDD /12/ and is calculated as per “Tool to calculate the emission factor for an electricity system,”. The data is obtained from Egyptian Electricity holding Company annual reports.

SDG 7- Amount of net electricity generated is 1,045,446 MWh. Value calculated was verified via monthly Joint Meter Reading reports /22/ and was further cross verified by Invoices provided by PD /27/.

SDG 8- Number of trainings- 7, 18 employees and 3,130,521 E£ is the cumulative income of workers. Employment generated has been verified via employment records/20/ and training records provided by PDD /12/.

The verification consisted of the following phases:

- **Document Review:** Relevant documents, such as the verification report, monitoring plan, methodology, GS PDD, QA/QC procedures and supporting documents were thoroughly reviewed.
- **On-Site Assessment:** This included crosschecking of data, personnel interviews and evaluation of the actual project scenario.
- **Resolution of Discrepancies:** Any non-conformities identified during the assessment were addressed and resolved.

In this monitoring period, CAR: Corrective Action :03, CL: Clarification Request :03 were raised and resolved. No FAR was raised.

Description of the findings raised is provided in Section 6 of this verification report.

3.11 Verification Opinion

VKU Certification, contracted by Infinite Environmental Solutions Limited., has performed the independent verification of the emission reductions for the GS Project ID 7739 “West Bakr Wind Farm Project” for the monitoring period 01/01/2023 to 31/12/2023(including both the dates) as reported in the revised Monitoring Report, /14/. Site in-charge responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity.

VKU commenced the verification against the baseline and monitoring methodology ACM0002, version 20.0 /11.1/ the monitoring plan contained in the PDD Version 06 dated 31/10/2022/12/ and Monitoring Report /14/.

VKU Certification confirms that the monitoring system is in place and the emission reductions are calculated without material misstatements. This verification report has been prepared using the latest available template specified by GS4GG registry and complies with the instructions to follow as per GS4GG principle and requirements v1.2 /1/ and GS4GG validation and verification standard v1.0 /5.1/. The verification activities were conducted in accordance with VKU Certification’s Quality Manual System and SOP 4 of this report and as per the GS4GG validation and verification standard v1.0 /5.1/. As a result, it is concluded that the emission reductions from the GS Project Activity ID 7739 “West Bakr Wind Farm project” are correctly reported in the revised Monitoring Report /14/ and corresponding ER sheet /15/ for the monitoring period 01/01/2023 to 31/12/2023 (both dates included) amounted to **464,178 tCO₂e**.

VVB opinion on issuance as per the ISO 14064-3 /8.2/, clause 9 which is in compliance with GS4GG principles and requirement v1.2 /1/ and GS4GG validation and verification standard v1.0 /5.1/. The VVB hereby issues a resolutely positive opinion meticulously drafted in strict accordance with ISO 14064-3:2019, /8.2/ Section 09, and the precise provisions of Clause 9.7.1.6 & 9.7.2 of ISO 14065:2020/8.3/. This opinion stands in full alignment with the exacting requirements delineated in ISO/IEC 17029:2019, Section 9.7./8.4/

Our verification process provides a robust and reasonable level of assurance regarding the veracity of the reported GHG emission reduction data. This data is devoid of any material misstatements and is steadfastly supported by the evidence furnished by the Project Proponent (PP), comprehensively presented in this report.

VVB opinion on issuance as per the ISO 14064-3, clause 9 which is compliance with GS4GG principles and requirement v1.2 /1/ and GS4GG validation and verification standard v1.0 /5.1/.

VVB Opinion	Conclusion
Positive	☒
Negative	☐

4. REFERENCE/DOCUMENTS USED IN THE VERIFICATION

S.No.	AUTHOR		TITLE	REFERENCE TO THE DOCUMENT	PROVIDER
1.	Gold Standard		<u>Principles and requirements</u>	Version 1.2 and Dated: 23/10/2019	Gold Standard Website
2.	Gold Standard		<u>Stakeholder consultation and engagement requirements</u>	Version 2.1 and Dated: 14/06/2022	Gold Standard Website
3.	Gold Standard		<u>Safeguarding principles and requirements</u>	Version 2.1 and Dated: 29/06/2023	Gold Standard Website
4.	Gold Standard		<u>Design change requirements</u>	Version 1.1 and Dated: 14/04/2023	Gold Standard Website
5.	5.1	Gold Standard	<u>Validation and verification standard</u>	Version 1.0 and Dated: 06/03/2023	Gold Standard Website
	5.2	UNFCCC CDM	<u>CDM Validation and Verification Standard for Project Activities</u>	Version 3.0 and Dated: 07/10/2021	CDM Website
6.	Gold Standard		<u>Site visit and remote audit requirements and procedures</u>	Version 2.0 and Dated: 30/05/2023	Gold Standard Website
7.	Gold Standard		<u>Applicability of minimum site visit requirements by VVB</u>	Version 2.0 and Dated: 16/08/2021	Gold Standard Website
8.	8.1	ISO	<u>ISO-14064-2:2019: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements</u>	Dated: April-2019	ISO Website
	8.2	ISO	<u>ISO 14064-3:2019: Greenhouse gases- Part 3: Specification with guidance for the verification and validation of greenhouse gas statements</u>	Dated: April-2019	ISO Website
	8.3	ISO	<u>ISO 14065:2020: General principles and requirements for bodies validating and verifying environmental information</u>	Dated: December-2020	ISO Website
	8.4	ISO	<u>ISO/IEC 17029:2019: Conformity assessment- General principles and requirements for validation and verification bodies</u>	Dated: October-2019	ISO Website

9.	Gold Standard		<u>Gold standard eligible impact quantification methodologies</u>	Version 2.4 and Dated: 22/06/2023	Gold Standard Website
10.	UNFCCC CDM		<u>Annex 60: Guidelines For Assessing Compliance with the Calibration Frequency</u>	Version 01, dated: 12/02/2010	CDM Website
11.	11.1	UNFCCC CDM	<u>Methodology- ACM0002 "Grid-connected electricity generation from renewable sources"</u>	Version 20.0 and Dated: 28/11/2019	CDM Website
	11.2	UNFCCC CDM	<u>Methodological tool: Tool for demonstration and assessment of additionality</u>	Version 07 Dated: 23/11/2012	
	11.3	UNFCCC CDM	<u>Methodological Tool: Tool to calculate emission factor for an electricity system</u>	Version 07 Dated: 31/08/2018	
12.	Infinite Environmental Solutions Limited		GS4GG PDD	Version 06 and Dated 31/10/2022	Infinite Environmental Solutions Limited
13.	Gold Standard		<u>GS4GG guide MR Template</u>	Version 1.1 and Dated 14/10/2020	Gold Standard Website
Reference/Supporting documents					
14.	Infinite Environmental Solutions Limited		Monitoring Report	Version 01 dated 16/01/2024 Version 02 dated 05/02/2024 Version 03 dated 28/02/2024 Version 04 Dated 06/05/2024	Infinite Environmental Solutions Limited
15.	Infinite Environmental Solutions Limited		Emission Reduction spreadsheet	Version 01 dated 16/01/2024 Version 02 dated 05/02/2024 Version 03 dated 28/02/2024	Infinite Environmental Solutions Limited
16.	Egyptian Electricity Transmission Company		Commissioning Certificates	dated 13/11/2021	Infinite Environmental Solutions Limited
17.	Siemens Gamesa		Technical Specifications	Dated: March-2021	Infinite Environmental Solutions Limited

18.	Lekela Egypt Wind Power BOO (S.A.E.)	Updated Single Line diagram of the project (SLD)	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
19.	Lekela Egypt Wind Power BOO (S.A.E.)	Training Records applicable for current monitoring period from 01- January- 2023 to 31- December-2023 (Including both the dates)	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
20.	Lekela Egypt Wind Power BOO (S.A.E.)	Employment records personnels applicable for the current monitoring period	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
21.	Lekela Egypt Wind Power BOO (S.A.E.)	Grievance records (Grievances of emails and phone call) And Grievances register placed at project site	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
22.	EETC	Joint Meter Reading reports for current monitoring period	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
23.	EETC and Lekela Egypt Wind Power BOO (S.A.E.)	Power Purchase Agreement	Dated: 13/02/2019	Infinite Environmental Solutions Limited
24.	Lekela Egypt Wind Power BOO (S.A.E.) And Siemens Gamesa Renewable Energy Egypt LLC	O&M agreement	Dated: 12-July-2019	Infinite Environmental Solutions Limited
25.	Lekela Egypt Wind Power BOO (S.A.E.) And Siemens Gamesa Renewable Energy Egypt LLC	O&M log	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
26.	Siemens Technologies SAE	Calibration Certificates of energy meters installed	Dated: 11/02/2021	Infinite Environmental Solutions Limited

27.	Lekela Egypt Wind Power BOO (S.A.E.)	Invoices	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
28.	Lekela Egypt Wind Power BOO (S.A.E.)	Self- Declaration for no double counting	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
29.	Lekela Egypt Wind Power BOO (S.A.E.)	Climatic conditions record applicable for current monitoring period	Current monitoring period from 01/01/2023 to 31/12/2023 (including both the dates)	Infinite Environmental Solutions Limited
30.	LGAI Technological Center, S.A	Design Certification (Validation) Report	Version 2.0 Dated: 31/10/2022	Infinite Environmental Solutions Limited
VVB Documents used during Current Verification				
31.	VKU Certification	Onsite Inspection- Site Photographs	Dated: 23/01/2024 & 24/01/2024	N/A
32.	N/A	<u>GPS Map Camera</u>	N/A	N/A
33.	N/A	<u>Google Earth Software</u>	N/A	N/A
34.	VKU Certification Pvt Ltd	Onsite Personnel and Stakeholders Interview	Dated: 23/01/2024 & 24/01/2024	VKU Certification Pvt Ltd
35.	VKU Certification Pvt Ltd	VKU.F64W.Field Assessment Checklist_VKU.VER.24.24_GS_7739	Dated: 23/01/2024 & 24/01/2024	VKU Certification Pvt Ltd
36.	VKU Certification Pvt Ltd	VKU.F46W. Attendance Sheet for Audit_VKU.VER.24.24_GS_7739	Dated: 23/01/2024 & 24/01/2024	VKU Certification Pvt Ltd
37.	VKU Certification Pvt Ltd	VKU.F56W.Risk Assessment_VKU.VER.24.24_GS_7739	Dated: 17/01/2024	VKU Certification Pvt Ltd
38.	VKU Certification Pvt Ltd	VKU.F24W. Audit and Sampling Plan_VKU.VER.24.24_GS_7739	Dated: 17/01/2024	VKU Certification Pvt Ltd



39.	VKU Certification Pvt Ltd	VKU.F60W.List of Documents_VKU.VER.24.24_G S_7739	Dated: 16/01/2024	VKU Certification Pvt Ltd
40.	VKU Certification Pvt Ltd	VKU.F72W.Evidence Gathering Plan_VKU.VER.24.24_GS_7739	Dated: 17/01/2024	VKU Certification Pvt Ltd
41.	VKU Certification Pvt Ltd	VKU.F71W. Evidence Gathering Activities_VKU.VER.24.24_GS_7739	Dated: 17/01/2024	VKU Certification Pvt Ltd
42.	VKU Certification Pvt Ltd	VKU.F70W. Strategic Analysis Plan_VKU.VER.24.24_GS_7739	Dated: 17/01/2024	VKU Certification Pvt Ltd
43.	VKU Certification Pvt Ltd	VKU.SOP.04. Process Requirements	Version 3.0 dated: 24/11/2023	VKU Certification Pvt Ltd
44.	Lekela Egypt Wind Power B00 (S.A.E.)	1 st Monitoring Report of MP from 13/11/2021 to 31/12/2022 (Both dates included)	Version 03, Dated: 31/05/2023	<u>GS Impact registry Weblink</u>
45.	LGAI Technological Center, S.A.	1 st Verification Report of MP from 13/11/2021 to 31/12/2022 (Both dates are included)	Version 01. Dated: 01/06/2023	<u>GS Impact registry Weblink</u>
Documents submitted by the PD as per GS4GG Project Review Requirement				
46.	Monthly Maintenance Records	From 01- January- 2023 to 31- December-2023 (Including both the dates)	NA	Infinite Environmental Solutions Limited
47.	Organogram (Organization Structure)	From 01- January- 2023 to 31- December-2023 (Including both the dates)	NA	Infinite Environmental Solutions Limited

5. Certification Statement

VKU Certification Private Limited (VKU Certification), contracted by Infinite Environmental Solutions Limited First Climate Markets AG, has performed the independent verification of the emission reductions for the GS4GG project activity 7739 “West Bake Wind Farm Project” in Egypt for the monitoring period 01/01/2023 to 31/12/2023 (both dates included) as reported in the latest revised Monitoring Report /14/. Infinite Environmental Solutions Limited 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

VKU Certification commenced the verification on the basis of the baseline and monitoring methodology ACM0002 V 20.0 /11.1/ the monitoring plan contained in the PDD Version 06 dated 31/10/2022 /12/, revised Monitoring Report /14/ as per the methodology described under Section 2 of this report.

VKU Certification’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. VKU Certification planned and performed the verification by obtaining evidence and other information and explanations that VKU Certification 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 01/01/2023 to 31/12/2023 (both dates included) are fairly stated in the Monitoring Report (final) Version 04 /14/. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002 V 20.0 /11.1/ and the monitoring plan contained in the PDD Version 06 dated 31/10/2022 /12/.

VKU Certification Private Limited is able to certify that the emission reductions from the GS4GG project activity 7739 “West Bakr Wind Farm Project” in Egypt during the period 01/01/2023 to 31/12/2023 (both dates included) amount to 464,178 tCO₂e.

**Verified and certified emission reductions as per commitment period:**

Commitment period	Amount
From: 01/01/2023 to 31/12/2023 (both dates included)	464,178 tCO₂e.

**VIKAS
KUMAR
AHARWAL**

Digitally signed by
VIKAS KUMAR
AHARWAL
Date: 2024.05.14
12:30:21 +05'30'

Dr Vikas Kumar Aharwal

Founder and Director

VKU Certification Private Limited

14/05/2024

Indore, India

6. VERIFICATION FINDINGS (CAR/CL/FAR)

CAR: Corrective Action Request (03)

CL: Clarification Request (03)

FAR: Forward Action Request (00)

Type	Date	25-January-2024
CAR#01	Reference	Sheet of Ver protocol: Cover Page to Section E
Description of the Non-Conformance		
Key Information - Table 2 format for product vintages is found to be inconsistent with the MR template guide v1.1. Moreover, PD has also not provided vintage wise values of other applied SDGs. PD is also required to correct VERs. Section A.3 - PD has not provided relevant reference links in this section of Monitoring report. - PD has not mentioned clearly that, is the crediting period inclusive of both the dates? Section C - PD has not mentioned QA/QC procedure, Apportioning, Training in this section of MR. - PD has not provided information and details of EEHC. Section E.6 - PD has not clear mentioned that whether both the dates are included in the monitoring period mentioned in this section of MR.		
1 st Response from PP	Date	05-February-2024
- The format of table 2 for product vintages has been made consistent to the MR template guide v1.1. Further, vintage wise values of other applied SDGs have been provided in table 2 of the MR. - The relevant reference link for the applied methodology and tools has been provided under footnote in section A.3 of the MR. - The crediting period of the project activity is inclusive of both dates. The same has been mentioned in section A.4 of the MR. - QA/QC procedure for each monitoring parameter has been provided in section D.2 of the MR. Emergency preparedness plan has been provided in section C of the MR. Details of the - EEHC has been incorrectly mentioned by the PD. It has been corrected to EETC (Egyptian Electricity Transmission Company). - The monitoring period of the project activity is inclusive of both dates. The same has been mentioned in section E.6 of the MR.		

1stAssessment by Audit Team	Status	Closed	Date	05-February-2024
1. It is confirmed that format of table 2 for product vintages has been made consistent to the MR template guide v1.1. Also, vintage wise values of other applied SDGs are now provided in the revised MR. Hence, finding is closed. 2. Relevant reference link has been provided in the revised MR. Hence, finding is closed. 3. It is now confirmed that the crediting period is inclusive of both start and end dates. Hence the finding is closed. 4. It is confirmed that the information regarding QA/QC procedure is now provided in section D.2 of MR and the emergency preparedness plan is also provided now in section C of MR. Hence, the finding is resolved and closed 5. The incorrectly mentioned EEHC has now been corrected to EETC in the revised MR. Hence, the finding is closed. 6. It is confirmed that the monitoring period of project activity is inclusive of both the dates and PD has also updated the same in section E.6 of the revised MR. Hence, the finding is closed. Hence, assessment team confirms that CAR#01 has been resolved and closed.				

Type	Date	25-January-2024		
CAR#02	Reference	All Sheet of Ver protocol:		
Description of the Non-Conformance				
8. PD is required to provide evidences the support the following: • Technical specifications of WTGs • O&M logs • Error factor of 0.2% • Climatic condition record • Break Down details/records • Grievances Expression Register				
1 st Response from PP	Date	05-February-2024		
PD is providing following evidence to the assessment team: 1. Technical specification of WTG 2. O&M logs 3. Error factor is as per accuracy class for the energy meter which has been mentioned in the calibration certificate. 4. Climatic condition record 5. There is no breakdown during the current verification period. 6. Grievance register				
1 st Assessment by Audit Team	Status	Closed	Date	06-February-2024

Assessment team confirms that PD has provided the evidence for the following:

1. Technical specification of WTG
2. O&M logs
3. Error factor is as per accuracy class for the energy meter which has been mentioned in the calibration certificate.
4. Climatic condition record
5. Grievances register and records

It is also confirmed by assessment team that there was no breakdown during the current verification of project activity.

Hence, assessment team confirms that CAR#02 has been resolved and closed.

Type	Date	21-February-2024
CAR 03	Reference	Sheet A, C of Verification Protocol
Description of the Non-Conformance		
Section A.2 1. It is found that the coordinate for WTG_42 is not correct. Section C 2. PD has not provided the information of two lines of power evacuation. 3. It is found that in the line diagram below the voltage transformation from the WTG to the HV/MV transformers and to the grid is not mentioned or indicated. Section D.2 4. No data is provided to cross check the number of employees at site and the wages earned by them. Also, it is not clear as to how the wages provided are in line with the minimum wages act of Egyptian Govt norms.		
1 st Response from PP	Date	28-February-2024
Section A.2 1. The coordinate provided for the WTG -42 was incorrectly mentioned. The correct location has now been provided in the MR and the correction was mentioned in section B.2.2 of the MR. Section C 2. The information about the two lines of power evacuation has been mentioned in section C of the MR. 3. The wind turbine generator voltage level is 690VAC. The wind turbine generator nacelle is equipped with a dry type step-up transformer 0.69/33KV. The produced electricity from the wind turbine generators at the facility is collected via a medium voltage underground cable network at 33KV level from the wind turbine generators to the substation located medium		

voltage collector/switchgear. The collected generated electricity at the 33KV medium voltage collector/switchgear is evacuated to the off taker national grid through 2 oil filled step up main power transformers each is 33/220KV, 175MVA then to 2 overhead transmission lines. The same has been provided in section C of the MR.

Section D.2

4. PD has submitted relevant records of the employees categorised on the basis of type of employment (skilled/unskilled, temporary/permanent) to the assessment team. Information of income values of the employees are the confidential information which cannot be provided in the MR. Further, the salary slips of the employees were presented to the assessment team during on-site audit. The query about the minimum wages act of Egyptian Govt norms and the compliance for the same was asked during on-site audit and the same has been clearly explained by the PD.

1st Assessment by Audit Team

Status

Closed

Date

29-February-2024

Section A.2

1. It is found that the correct location for WTG-42 has now been provided in the revised MR section B.2.2. As per the assessment on Google Earth, the revised geocoordinate of WTG 42 is now so correct location. Hence, the finding is closed.

Section C

2. It is confirmed that the information regarding two lines of power evacuation has been mentioned in section C of revised MR. Hence, the finding is closed.
3. It is confirmed that the wind turbine generator voltage level is 690V AC. It is also confirmed that the produced electricity from the wind turbine generators at the facility is collected via a medium voltage underground cable network at 33KV level from the wind turbine generators to the substation located medium voltage collector/switchgear. PD has also updated the information in section C of MR. Hence, the finding is closed.

Section D.2

4. It is confirmed that PD has submitted relevant records of the employees categorised on the basis of the type of employment (skilled/unskilled, temporary/permanent) to the assessment team. It is also confirmed that the query regarding the minimum wages act of Egypt Govt norms (WagesIndicator.Org) and compliance has been resolved during site-visit. Hence, the finding is closed.

Assessment team confirms that CAR#03 is resolved and closed.

Type	Date	25-January-2024
CL#01	Reference	Section of Ver protocol: Section A to Section G
Description of the Non-Conformance		
Section A.1 1. PD needs to clarify the roles of First Climate Markets AG and Lekela Egypt Wind Power BOO (S.A.E.) Section A.2 2. PD is required to clarify whether Ras Ghareb is a city or a village in Egypt? The location is not consistent throughout the MR. Section B.1 3. As per on-site audit, verification team found that transformer ABB has not installed yet. PD is required to justify the same. Section D.2 4. PD required to clarify that, are the listed employees categorised further on the basis of type of employment (skilled/unskilled, temporary/permanent)? Also needs to justify the income value on the basis of same. Section F 5. PD has not clarified that whether any agreement has been signed between the Project Developer and Waste Handler. If, yes then PD is required to submit the same. Section G.2 6. PD has not clarified that on which basis PD stated there has no stakeholder mitigation in the current monitoring period? Section G.3 7. PD has not provided justification, how there has been no legal contest arisen with the project (references). Appendix B 8. PD required to clarify how the number of attendees in a few trainings is more than 18, although the number of employees mentioned in section D.2 (SDG 8) is only 18. Since this is the second verification of the project activity, PD is also required to clarify whether any attrition or recruitment has taken place after the first verification in the current monitoring period.		
1 st Response from PP	Date	05-February-2024
1. First Climate Markets AG is the Project Representative and Lekela Egypt Wind Power BOO (S.A.E.) is the Project Developer for the project activity. The same has been provided in cover page and in section A.1 of the MR.		

2. With reference to the section A.2 of GS registered PDD, Ras Ghareb is a village in Egypt. The location of the project activity has been made consistent in the MR.
3. Transformer ABB was proposed to install at the time of project validation, but it is not installed yet. The same has been justified to the assessment team during the on-site audit.
4. PD is submitting relevant records of the employees categorised on the basis of type of employment (temporary/permanent) to the assessment team. Information of income values of the employees are the confidential information which cannot be provided in the MR. Further, the salary slips of the employees were presented to the assessment team during on-site audit.
5. Currently there is no agreement for the waste disposal between the Project Developer and Waste Handler. The agreement is being signed as and when required.
6. There were 4 social grievances received from the stakeholder during the current verification period. The same has been mentioned in section G.2 of the MR and PD is submitting grievance record to the assessment team to verify the same.
7. The grievance received during the current verification period are of social category. There were no legal grievances received. The same has been mentioned in section G.3 of the MR.
8. Number of employees in an organization is a highly subjective phenomenon and is not fixed. Currently, 18 people are working in the project activity out of which 3 were employed during the current verification period.

1stAssessment by Audit Team	Status	Closed	Date	05-February-2024
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Section A.1

1. Assessment team confirms that PD clarify the roles of First Climate Markets AG and Lekela Egypt Wind Power BOO (S.A.E.) and same has been updated in the revised MR. Hence, the finding is closed.

Section A.2

2. It is confirmed by assessment team that PD has updated the location of project activity in the revised version of MR. Hence, the finding is closed.

Section B.1

3. It is confirmed by the assessment team that ABB transformer is not installed at the project site during current monitoring period. The information has also been updated in the revised MR by PD. Hence, the finding is closed.

Section D.2

4. It is confirmed that PD has submitted relevant records of employees based on type of employment. It is also confirmed by the assessment team that the samples of salary slip of employees were presented to the assessment team during the site visit. Hence, the finding is closed.

Section F

5. Assessment team confirms that PD has clarified that no agreement is signed for the waste disposal between the Project Developer and Waste Handler during the current monitoring period. Hence, the finding is closed.

Section G.2

6. It is confirmed that 4 grievances were raised during current monitoring period and they were successfully resolved and closed. The information has been updated in the revised MR by PD. PD has also submitted the relevant records for grievances. Hence, the finding is closed.

Section G.3

7. Assessment team confirms that the 4 grievances raised during current monitoring period are of 'social' category and no legal grievances were received. Hence, the finding is closed.

Appendix B

8. It is confirmed that PD has clarified 18 employees are currently employed under project activity. PD has also clarified that out of 18, 3 were employed during the current verification period. Details are provided in revised MR. Hence, the finding is closed.

Assessment team confirms that CL#01 has been resolved and closed.

Type	Date	25-January-2024
CL#02	Reference	ER sheet
Description of the Non-Conformance		
In ER sheet: - PD is required to clarify why the months of June, July, August and September have a higher generation as compared to other months? - PD has not provided PLF calculation and its percentage difference, clarify it. - As per onsite assessment, it is found that Net Generation Data not consistent between the Invoices and JMRs for the current monitoring period, PP is required to clarify.		
1 st Response from PP	Date	05-February-2024
1. The months June, July, August and Sept have a higher generation as compared to other months due to the climatic conditions which are not in control of the PD. PD is submitting climate records to the assessment team to verify the same. 2. The PLF calculation and its percentage difference has been mentioned in the ‘ER Summary’ tab of the ER sheet. 3. ER has been calculated based on net generation value following conservative approach. Net generation value is the minimum of the JMR values and invoice value. PP is submitting invoices and JMR to the assessment team to verify the same.		
1 st Assessment by Audit Team	Status	Closed
	Date	05-February-2024
1. Assessment team confirms that PD has clarified the higher generation in the months of June, July, August and September due to climatic condition or more wind season and for the same PD also submitted SCADA records of wind speed. Records of Wind speed found		

transparent and point towards high wind speed during the given months. Hence, finding is closed.

2. It is confirmed that PLF calculation and its percentage difference has been mentioned in the 'ER Summary' tab of the ER sheet. The actual PLF in the current monitoring period is 47.36%, which is 12.7% lower than the estimated value of PLF (54.25%) in the registered PDD. Hence the finding is closed.
3. It is confirmed by the assessment team that PD has clarified the calculation in ER sheet and also provided JMR and invoices to verify the same. Hence the finding in ER sheet has been resolved and closed.

Assessment team confirms that CL#02 is resolved and closed.

Type	Date	21-February-2024
CL#03	Reference	Verification Protocol GS Sheet B, C, D and E
Description of the Non-Conformance		
Section B.1 1. PD shall have to clarify that is Rated voltage synchronised with grid at given value 0.69/33k? Section C 2. PD shall have to clarify that what monitoring equipment or system is used for the monitoring of instantaneously electricity generation? 3. In the rarest event due to manmade or natural calamities if monitoring meters are the substation is destroyed, what procedures are undertaken to measure the energy, PD shall have to justify it. Section D.2 4. PP shall have to justify, how is the Income (Cumulative income of workers in E£) 3,130,521 are complying with Egyptian law on minimum wages? 5. In the ER sheet apportioning was applied. However, no procedure was mentioned in the monitoring plan of the registered PDD. Section E.2 6. PD shall have to clarify that how is internal energy needs at site fulfilled by the project developers at site. What is the source of energy during grid unavailability?		
1 st Response from PP	Date	28-February-2024
Section B.1 1. The wind turbine generator voltage level is 690VAC. The wind turbine generator nacelle is equipped with a dry type step-up transformer 0.69/33KV. The produced electricity from the wind turbine generators at the facility is collected via a medium voltage underground cable network at 33KV level from the wind turbine generators to the substation located medium voltage collector/switchgear. The collected generated electricity at the 33KV medium voltage collector/switchgear is evacuated to the off taker national grid through 2 oil filled step up main power transformers each is 33/220KV, 175MVA then to 2 overhead transmission lines. Electricity generation is instantaneously monitored through SCADA		

(Supervisory Control and Data Acquisition) system. The same has been mentioned in section C of the MR.

Section C

2. Electricity generation is instantaneously monitored through SCADA. The same has been mentioned here.

3. In such cases where monitoring meters at the substation is destroyed due to manmade or natural calamities, no energy generation will not be measured, and PD will not claim the emission reduction for the duration.

Section D.2

4. The compliance for income of employees with Egyptian law on minimum wages has been explained by the PD to the assessment team during on-site audit.

5. ER Sheet has been corrected and apportioning is not applied to calculate emission reduction.

6. The internal energy need at the site is fulfilled by the grid. The substation is equipped with a black start diesel generator at low voltage level 400VAC, 200KW to meet the energy need in case of grid unavailability. However, such situation has not been arrived since commissioning.

1stAssessment by Audit Team	Status	Closed	Date	29-February-2024
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Section B.1

1. It is found that the given information is consistent and compliance with the registered PDD and submitted SLD document. Hence, finding is closed.

Section C

2. PD has clarified that electricity generation is being instantaneously monitored through SCADA system and the same has been updated by PD in the section C of MR.
3. PD has clarified that during cases when there is natural calamity, no energy generation will be measured and the PD will not claim any emission reduction during that duration. Hence, the finding is closed.

Section D.2

4. It is confirmed that PD has clarified during on-site visit that the cumulative income of employees is in compliance with Egyptian law on minimum wages. Hence, the finding is closed.
5. It is confirmed that ER sheet has been corrected by PD and apportioning is not applied to calculate emission reduction in the current monitoring period. PD applied the error factor as per the Annex 60GUIDELINES FOR ASSESSING COMPLIANCE WITH THE CALIBRATION FREQUENCY REQUIREMENTS, therefore VVB concluded that applying the maximum permissible error of the instrument to the measured values, 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. So, PD applied 0.2 as error factor because there is no error found in result of delayed calibration. PD selected the error factor 0.2 as 0.2s is accuracy class of meters (both main meter and back up meter) as per the technical specification of energy meters submitted by the PD.
6. It is confirmed that the internal energy need at the site is fulfilled by the grid. PD has also clarified that the substation is equipped with a black start diesel generator at low voltage

level 400V AC, 200KW to meet the energy need in case of grid unavailability. Hence, the finding is closed.

Assessment Team confirmed that CL#03 is successfully closed.

Type	Date	DD/MM/YYYY		
FAR-00	Reference			
Description of the Non-Conformance				
1st Response from PP		Date	DD/MM/YYYY	
1st Assessment by Audit Team	Status	Close/Open	Date	DD/MM/YYYY

Declaration

All CARs, CLs, and FARs from the Verification

Total Number of CAR s	03	Total Number of CLs s	03	Total Number of FAR s	00
Status of CARs	☐ Open ☒ Closed ☐ Turned to a FAR	Status of CLS	☐ Open ☒ Closed ☐ Turned to a FAR	Status of FARs	☐ Open ☐ Closed ☐ Turned to a FAR

7. COMPETENCE OF VERIFICATION TEAM AND TECHNICAL REVIEWERS

Team Leader



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Barun Kumar
Nationality	Indian
Countries of Experience	India, South Africa, Kenya, Uganda, DR Congo, Zambia
Education Qualification	B.Sc. (Environmental Science & Water Management) M.Sc. (Ecology & Environmental Sciences)
Year of Experience	12 Years +
Area of Expertise	Climate Change & Environment
Eligible Sectoral Scope	TA 1.2 - Renewables TA 3.1 - Energy Demand TA 6.1 - Construction TA 7.1 - Transport

Roles

Project Trainee	NO
Validator/Verifier Trainee	NO
Validator	NO
Verifier	NO
Team Leader	YES
Technical Reviewer	YES
Local Expert (Country Wise)	NO
TA Expert (1.2, 3.1, 6.1, 7.1)	YES
Financial Expert	NO

Reviewed by	Vandana Gupta (Quality Manager)	Date	06/12/2022
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	06/12/2022

Technical Reviewer



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Sanjay Kumar K
Nationality	Indian
Countries of Experience	Vietnam, Thailand, India
Education Qualification	BE (Civil Engineering) ME (Environmental Engineering)
Year of Experience	12+ Years
Area of Expertise	Climate Change & Environment / Industry
Eligible Sectoral Scope	TA 1.2 - Energy generation from renewable energy sources TA 3.1. Energy demand (General) TA 6.1. Construction TA 13.1. Solid waste and wastewater

Roles

Project Trainee	NO
Validator/Verifier Trainee	NO
Validator	YES
Verifier	YES
Team Leader	YES
Technical Reviewer	YES
Local Expert (Country Wise)	YES
TA Expert (1.2, 3.1, 6.1 & 13.1)	YES
Financial Expert	NO

Reviewed by	Apoorva Gupta (Quality Manager)	Date	16/10/2023
Approved by	Barun Kumar (Technical Manager)	Date	16/10/2023

Validator/Verifier-Trainee



Certification Pvt. Ltd.
VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Aastha Verma
Nationality	Indian
Countries of Experience	India
Education Qualification	B.Sc. (Zoology Hons.) M.Sc. (Environmental Science)
Year of Experience	1 year
Area of Expertise	Climate Change & Environment
Eligible Sectoral Scope	NA

Roles

Project Trainee	NO
Validator/Verifier Trainee	YES
Validator	NO
Verifier	NO
Team Leader	NO
Technical Reviewer	NO
Local Expert (Country Wise)	NO
TA Expert (X.X)	NO
Financial Expert	NO

Reviewed by	Vandana Gupta (Quality Manager)	Date	19/05/2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	19/05/2023

Project Trainee



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Megha Modi
Nationality	Indian
Countries of Experience	India
Education Qualification	B.Sc. Biotechnology (Hons) M.Sc. Biotechnology
Year of Experience	Fresher
Area of Expertise	NA
Eligible Sectoral Scope	NA

Roles

Project Trainee	YES
Validator/Verifier Trainee	NO
Validator	NO
Verifier	NO
Team Leader	NO
Technical Reviewer	NO
Local Expert (Country Wise)	NO
TA Expert (X.X)	NO
Financial Expert	NO

Reviewed by	Vandana Gupta (Quality Manager)	Date	02/09/2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	02/09/2023

Local Expert



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VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Ola Abdalla
Nationality	Egyptian
Countries of Experience	Egypt
Education Qualification	Bachelors in Electrical & Machines Engineering Masters of Science in Electrical & Machines Engineering
Year of Experience	12 Years
Area of Expertise	Climate Change & Environment Industry
Eligible Sectoral Scope	NA

Roles

Project Trainee	NO
Validator/Verifier Trainee	NO
Validator	NO
Verifier	NO
Team Leader	NO
Technical Reviewer	NO
Local Expert (Country Wise)	YES
TA Expert (X.X)	NO
Financial Expert	NO

Reviewed by	Apoorva Gupta (Quality Manager)	Date	26/12/2023
Approved by	Barun Kumar (Technical Manager)	Date	26/12/2023

APPENDIX 1: TECHNICAL SPECIFICATIONS

The Wind turbine type	SG 2.6-114 ¹ (2.625 - 2.9) MW
Wind turbine class & standard	IIA / S, IEC 61400-1:2005+AMD1:2010
Blade Type	G114 Infused blade, structural shells and adhesive joints
Blade Material	Fiberglass reinforced resin
No of blade	3
Blade Pitch Controller Type	Hydraulic
Gearbox Type	Three stages gearbox (two planetary stages and one helical gear stage)
Generator Type	Doubly – fed induction machine
Generator Manufacturer	SGRE
Generated Rated Power	2695 kW
Generator Rated Speed	1680 rpm
Generator Max. speed	1900 rpm
Generator Rated Voltage	690 V
Transformer Type	Dry type vacuum cast resin transformer
Manufacturer	Hainan Jinpan Electric Co., Ltd.
Rated Voltage	0.69V / 33 kV
Rated Power	2910 kVA
Tower Type	Tubular steel
Length	HH 80 m
Total No of WTGs Installed	96
Life of the WTGs	25 years

APPENDIX 2: CALIBRATION DETAILS

S. No.	Serial number of meters	Date of calibration	Validity of calibration
1	02891378 02914086 02891300 02913923	11/02/2021	10/02/2022
2	02891378 02914086 02891300 02913923	13/12/2021	12/12/2022
3	02891378 02914086 02891300 02913923	06/04/2023	05/04/2024 ¹⁰

APPENDIX 3: CLASSIFICATION OF EMPLOYEES

S. No.	Name	Gender	Company	Category	Type	Position
1	Moustafa Abdelhadi	Male	IPH	Permanent	Skilled	O&M Director - Plant Manager
2	Mohamed Elahmar	Male	IPH	Permanent	Skilled	Operation & Maintenance Head
3	Walid Elgohary	Male	IPH	Permanent	Skilled	LTSA Performance Head
4	Badea Wagih	Male	IPH	Permanent	Skilled	QHSSE Head
5	Kholoud Bakry	Male	IPH	Permanent	Skilled	Maintenance Planning & Reporting Engineer
6	Mohamed Saif	Male	IPH	Permanent	Skilled	Junior Shift Operation Engineer
7	Heba Ibrahim	Female	IPH	Permanent	Skilled	E and S Manager
8	Julie Beshara	Female	IPH	Permanent	Skilled	Sustainable Design Engineer
9	Mostafa Abdelgalil	Male	IPH	Permanent	Skilled	Junior Shift Operation Engineer
10	Ahmed Elsayed	Male	IPH	Permanent	Skilled	Site Admin & Store Keeper
11	Eslam Sayed	Male	IPH	Permanent	Skilled	Mechanical technician

¹⁰ There is delay calibration for current monitoring period, PD used error factor as per the UNFCCC annex 60 (GUIDELINES FOR ASSESSING COMPLIANCE WITH THE CALIBRATION FREQUENCY REQUIREMENTS) https://cdm.unfccc.int/Reference/Guidclarif/iss/iss_guid05.pdf. Verification Team finds it correct and in compliance.



12	Hassan Osman	Male	IPH	Permanent	Skilled	Electrial technician
13	Abdulrahman Mohamed	Male	Engaz service	Temporary	Unskilled	Office boy
14	Shawky Mohamed	Male	Engaz service	Temporary	Semi-skilled	Driver
15	Moustafa Heshmat	Male	Relax Tours	Temporary	Semi-skilled	Bus Driver
16	Mohamed Ashraf Hamdy	Male	Siemens Energy	Temporary	Skilled	O&M Team
17	Ahmed Maher Mousa	Male	Siemens Energy	Temporary	Skilled	O&M Team
18	Karim Mohamed Sabry	Male	Siemens Energy	Temporary	Skilled	O&M Team

APPENDIX 4: WTGS UTM GEO COORDINATES

Zone: 36 N	Easting	Northing
Wind Turbine	X	Y
1	480602	3162428
2	480929	3162600
3	481204	3162809
4	481465	3163058
5	481711	3163281
6	481971	3163509
7	482208	3163756
8	482437	3164018
9	480724	3161371
10	481140	3161527
11	481231	3161992
12	481679	3162151
13	481977	3162361
14	482248	3162580
15	482556	3162803
16	482828	3163007
17	480616	3160350
18	480905	3160538
19	481204	3160711
20	481493	3160897
21	481689	3161247
22	481949	3161490
23	482247	3161676
24	482563	3161844
25	482899	3162059
26	481766	3160307

Zone: 36 N	Easting	Northing
Wind Turbine	X	Y
49	482921	3158507
50	483214	3158702
51	483507	3158918
52	483779	3159158
53	484085	3159377
54	481544	3156474
55	481904	3156748
56	482284	3157070
57	482632	3157345
58	482988	3157629
59	483322	3157875
60	482350	3154644
61	482528	3154955
62	482705	3155287
63	482853	3155621
64	483046	3155910
65	483224	3156229
66	483486	3156465
67	483716	3156746
68	483900	3157049
69	484132	3157332
70	484385	3157590
71	484685	3157791
72	484942	3158031
73	485209	3158260
74	483374	3154602



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27	482144	3160573	75	486667	3154800
28	482531	3160820	76	483915	3155281
29	483010	3160975	77	484175	3155494
30	483333	3161221	78	484451	3155678
31	480609	3158299	79	484756	3155841
32	480872	3158553	80	485084	3155841
33	481139	3158775	81	485329	3156092
34	481406	3158991	82	485572	3156345
35	481704	3159188	83	485802	3156603
36	481993	3159372	84	486025	3156889
37	482305	3159550	85	486225	3157168
38	482616	3159696	86	486462	3157440
39	482921	3159881	87	485133	3154685
40	483250	3160003	88	485387	3154934
41	483527	3160212	89	485649	3155157
42	480641	3157201	90	485897	3155399
43	480970	3157380	91	486159	3155621
44	481275	3157584	92	486395	3155877
45	481589	3157787	93	486650	3156106
46	481925	3157975	94	486906	3156335
47	482225	3158195	95	487154	3156571
48	482565	3158346	96	487390	3156820

**History of the Document**

Version	Date	Amendment Summary*	Prepared By	Approved By
2.0	28/08/2023	Revisions done in all sections as per the requirement of GS4GG Standard	Vandana Gupta	Dr. Vikas Kumar Aharwal
1.1	22/07/2021	NA	Ayushi Garg	Vikas Aharwal
1.0	17/03/2020	NA	Ayushi Garg	NA

*Amendment Summary adopted in VKU System on 12.10.2022