VALIDATION REPORT

200 MW WIND POWER PROJECT IN TAMIL NADU BY ORANGE SIRONJ

Project Title	200 MW Wind Power Project in Tamil Nadu by Orange Sironj
GS ID of Project	6290
Version of the Validation Report	3.1
Completion date of the Validation Report	29/07/2024
Date of Design Certification	26/11/2019
Project Representative	Infinite Environmental Solutions Limited
Project Developer	Greenko Sironj Wind Power Pvt Ltd.
Project Participants and any communities involved	N/A
Activity Requirements applied	Renewable Energy
Scale of the Project Activity	Large Scale
Methodology (ies) applied and version number	ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0

Product Requirements applied	GHG Emissions Reduction & Sequestration
Project Cycle	Retroactive
Other Requirements applied	N/A

VKU Project ID	VKU.VAL.07.23.GS_6290
Prepared By	VKU Certification Pvt. Ltd.
Contact	Regd. Off: Prakoshth Number No. 1-S, Leaf Tower, Second Floor, Plot No. 01, IRIS LEAF Gram Talawali Chanda, Indore 453771 (M.P.) India URL: https://www.vkucertification.com/ E-mail: info@vkucertification.com
Authorized by	Dr. Vikas Kumar Aharwal (Founder and Director) vikas.aharwal@vkucertification.com
Work carried out by	Team Leader/Validator/Verifier cum Technical Expert T.A 1.2 - Vivek Kumar Ahirwar Technical Reviewer cum Technical Expert T.A 1.2 & Approver – Sanjay Kumar K Project Trainee – Anand Kumar

A. OBJECTIVE

The objective of this validation (RCP) is to have an independent review of the GS4GG Key Project Information & Project Design Document (PDD) /1/ and to check compliance with the GS requirements /5/ /6/ /7/ /8/ /9/ /10/ /11/ /12/ /13/ /14/ /15/ /16/ /17/ as described in the Gold Standard documentation and supporting documents /2/ /3/ /4/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/ /39/ /40/ /41/ /42/ /43/ given by the client. Validation of the renewal of crediting period is a requirement and it is seen as necessary to provide assurance about:

1. Changes in the Project as related to the GS4GG General Eligibility Criteria
2. Incorporation of any relevant updates to the GS4GG Requirements
3. Re-definition of Baseline Scenario and any impact of change on the Eligibility Principles, Criteria and Requirements
4. Any Gold Standard activity, product and methodology-specific Requirements
5. Demonstration of Ongoing Financial Need
6. The impact of new relevant national and/or sectoral policies and circumstances on the baseline;
7. The correctness of the application of an approved baseline methodology for the determination of the continued validity of the baseline or its update, and
8. The estimation of emission reductions for the applicable crediting period.

B. SCOPE AND CRITERIA OF THE VALIDATION

The scope of validation is defined as the independent and objective review of the Key Project Information & Project Design Document (PDD) /1/, monitoring plan /1/ and other relevant supporting documents /2/ /3/ /4/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/ /39/ /40/ /41/ /42/ /43/, including the baseline and monitoring methodologies /18/. The information in these documents is reviewed against all applicable GS requirements /5/ /6/ /7/ /8/ /9/ /10/ /11/ /12/ /13/ /14/ /15/ /16/ /17/ including the baseline and monitoring methodology ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0 /18/. The documents /1/ /2/ /3/ /4/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/ /39/ /40/ /41/ /42/ /43/ thus submitted to the VKU Assessment team by PD were reviewed against the following standards, methodology, tools and guidelines:

1. GS4GG Principles and Requirements; Version 1.2, dated: 23/10/2019 /5/

2. Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/
3. CDM Validation and Verification standard for project activities; Version 3.0 /17/
4. Renewable energy activity requirements; Version 1.4, dated: 16/08/2021 /13/
5. GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /14/
6. Safeguarding principles & requirements; Version 2.1, dated: 29/06/2023 /7/
7. Stakeholder consultation and engagement requirements; Version 2.1, dated: 14/06/2022 /6/
8. Design change requirements; Version 1.1, dated: 14/04/2023 /8/
9. Site visit and remote audit requirements and procedures; Version 2.0, dated: 30/05/2023 /10/
10. Applicability of minimum site visit requirement by VVB; Version 2.0, dated: 16/08/2021 /11/
11. Validation & verification body requirements; Version 2.0, dated: 14/01/2021 /12/
12. Template Guide: Key Project Information & Project Design Document (PDD) Version 1.4, dated 21/06/2023 /16/
13. Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /15/
14. ACM0002: Grid-connected electricity generation from renewable sources Version 21.0 /18/
15. Tool 1: Tool for the demonstration and assessment of additionality Version 07.0.0 /19/
16. Tool 7: Tool to calculate the emission factor for an electricity system Version 07.0.0 /20/
17. Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period Version 3.0.1 /21/
18. CDM – CO_2 Baseline Database (CO_2 Baseline Database for Indian Power Sector); Version 19.0 /22/
19. VKU QMS Procedures and SOPs – Internal procedural documents of VKU Certification Pvt. Ltd. /24/

The validation team has, based on the recommendations in the GS4GG Validation and Verification Standard /9/, employed a rule-based approach, focusing on the identification of significant risks for project implementation and the generation of GSVERs.

The validation is not meant to provide any consulting towards the project participants/project representative/coordinating managing entity. However, stated requests for clarifications and/or corrective actions/forward action request may have provided input for the improvement of the project design.

While carrying out the validation, VKU Certification Private Limited determined if the Project Activity complies with the requirements of GS4GG validation and verification standard /9/, GS4GG principle and requirements /5/, the applicability conditions of the selected methodology /18/, guidance issued by the Gold Standard and also assessed the claims and assumptions made in the final GS4GG Key Project Information & Project Design Document (PDD) /1/ without limitation on the information provided by the project participants.

C. VALIDATION METHODOLOGY AND PROCESS

The methodology and processes are undertaken by a competent validation team (refer Section 2.1) which involved the following steps:

1. The desk review of documents and evidence submitted by the project participant in context of the GS4GG criteria along with CDM rules and guidelines issued by CDM EB.
2. SOP 4 of VKU QMS Process; Version 3.0, dated: 24.11.2023
3. Conducting remote audit, interview/interactions with the project representatives and other stakeholders
4. Reporting audit findings with respect to non-conformities as CLs, CARs and FARs as well as closure of the findings, as appropriate and preparing a draft validation report based on the auditing findings and conclusions.
5. Technical review of the draft validation report along with other documents as appropriate by an independent technical reviewer and approval of the validation report

This report is based on the assessment of the final GS4GG Key Project Information & Project Design Document (PDD) /1/, remote audit, application of standard auditing techniques as per the GS4GG general requirement for all audit instances including but not limited to document reviews and stakeholder interviews, review of the applied methodologies and their underlying formulae and calculations.

This report contains the findings in terms of CARs, CLs or FARs and resolutions from the validation and a validation opinion confirming the monitoring plan is sound and reasonable and meets the stated

GS4GGG requirements, host country criteria and correctly applied the GS approved methodology /18/ and tools /19/ /20/ /21/.

D. VALIDATION CONCLUSION

The review of the GS4GG Key Project Information & Project Design Document (PDD) /1/ supporting documentation /2/ /3/ /4/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/ /39/ /40/ /41/ /42/ /43/ and subsequent follow up actions has provided VKU certification Private Limited with sufficient evidence to determine the fulfilment of the above stated criteria. VKU Certification is of the opinion that the project activity **"200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290)** meets all the GS requirements, host country criteria and has correctly applied the GS approved methodology ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0 /18/. Therefore, this project activity "200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290) is recommended to GS4GG for renewal of crediting period (RCP).

Sustainable Development Goals Targeted	**Most Relevant SDG Target**	**SDG Impact**
SDG 13: Climate Action	N/A	Emissions Reductions
SDG 8: Decent Work and Economic Growth	8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value	1. No. of trainings provided to the employees/year 2. Employment generated due to project activity.
SDG 7: Affordable and Clean Energy	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	MWh of renewable energy generated

CONTENTS

1 EXECUTIVE SUMMARY

The project activity **"200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290)** generate electrical energy using wind power technology and thus contributes in climate change mitigation efforts. It is a large-scale wind power project interpolated across several villages S. Kumarapuram, Puthiumputhur, Ottapidaram, Swamyanatham, P. Duraisamipuram, Vellaram, Kathcheri Thalavaipuram, Panchalankuruchi, Singathakurichi, Sekkarakudi, Vadakkukarusery, Ummarikottai, Ramaswamypuram, Jampulingapuram and Poovani of Thoothukudi district in Tamil Nadu state of India.

It is estimated that this project activity will replace anthropogenic emissions of greenhouse gases (GHGs) approximately 594,764 tCO_2e per annum, thereon displacing 635,976 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian electricity grid, which is mainly dominated by thermal/ fossil fuel-based power plant.

Greenko Sironj Wind Power Pvt Ltd[1] is the project investor of this project activity. 100 WTGs, each of 2MW capacity are installed under this project activity with a cumulative installed capacity of 200 MW. The commissioning details of the WTG's are mentioned below:

Number of WTGs	Commissioning Date	Commercial operation as per Commissioning cum COD Certificate
50	05/03/2019	07/03/2019
50	13/03/2019	14/04/2019

Project developer has placed operation and maintenance contract /32/ with the WTG Suppliers; Siemens Gamesa Renewable Private Limited (Gamesa) for the operation and maintenance the WTGs. The project activity is the installation of a new grid-connected renewable power plant/unit and this is not a CPA that has been excluded from a registered CDM PoA as a result of erroneous inclusion of CPAs. A summary of estimated sustainable development contributions in the final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024 /1/ is as follows:

Sustainable Development Goals Targeted	SDG Impact	Estimated Annual Average	Unit or Products

[1] Orange Sironj Wind Power Pvt Ltd was the investor of this project activity, but the name 'Orange Sironj Wind Power Pvt Ltd' is now changed to 'Greenko Sironj Wind Power Pvt Ltd.' from 28/12/2021 as per the Certificate of Incorporation pursuant to change of name, MINISTRY OF CORPORATE AFFAIRS, GOVERNMENT OF INDIA

SDG 13: Climate Action	Emission Reductions	594,764	GSVERs
SDG 8: Decent Work and Economic Growth	Trainings	1	No. of Trainings/year
	Employees	15	No. of Jobs
SDG 7: Affordable and Clean Energy	MWh of renewable energy generated	635,976	MWh/Annum

2 VALIDATION TEAM, TECHNICAL REVIEWER AND APPROVER

2.1 Validation team member

The name of the team members, their roles, affiliation and involvement are mentioned below:

S.No.	Role	Type of Resource	Last Name	First Name	Affiliation (e.g., name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk Review	Remote Inspection	Interview	Validation Finding
1.	Team Leader / Validator / Verifier/ Technical Expert	ER[2]	Kumar Ahirwar	Vivek	Outsourced entity	Y[3]	Y	Y	Y
2.	Project Trainee	IR	Kumar	Anand	VKU Cert. Pvt. Ltd.	Y	Y	N	N

2.2 Technical Reviewer and Approver of the validation report

	Role			First	Affiliation	Signature

[2] ER: External resource, IR: Internal Resource

[3] Y: Yes, N: No

S. No.		Type of Resource	Last Name	Name	(e.g., name of central or other office of DOE or outsourced entity)	
1.	Technical Reviewer & Technical Expert	ER	Kumar K	Sanjay	Outsourced entity	Date: 29/07/2024
2.	Approver	ER	Kumar K	Sanjay	Outsourced entity	Date: 29/07/2024

2.3 Authorized Signatory For VKU

S. No.	Role	Last Name	First Name	Affiliation (e.g., name of central or other office of DOE or outsourced entity)	Signature (Final version only)
1.	Director	Kumar Aharwal	Vikas	VKU Certification Pvt. Ltd.	VIKAS KUMAR AHARWAL Digitally signed by VIKAS KUMAR AHARWAL Date: 2024.07.29 15:31:36 +05'30'

3 MEANS OF VALIDATION

3.1 Desk/Document Review

The documents reviewed in the desk review are mentioned below:

Sl. No.	Author	Title	Reference	Provider
1	Infinite Environmental Solutions Limited	Key Project Information & Project Design Document (PDD)	Version 01, dated 04/01/2024 Version 02, dated 01/02/2024 Version 03, dated 01/03/2024 Version 04, dated 11/04/2024 Version 05, dated 27/06/2024	Infinite Environmental Solutions Limited
2	Infinite Environmental Solutions Limited	ER Sheet	Version 01, dated 04/01/2024 Version 02, dated 01/02/2024 Version 03, dated 27/06/2024	Infinite Environmental Solutions Limited

3	Infinite Solutions	Key Project Information & Project Design Document (PDD)	Version 05, dated 30/12/2019	Infinite Environmental Solutions Limited
4	Gold Standard for the Global Goals	Design and Performance Review under Gold Standard for the Global Goals	N/A	Infinite Environmental Solutions Limited
5	GS4GG	Principles and Requirements	Version 1.2, dated: 23/10/2019	Publicly Available
6	GS4GG	Stakeholder consultation and engagement requirements	Version 2.1, dated: 14/06/2022	Publicly Available
7	GS4GG	Safeguarding principles & requirements	Version 2.1, dated: 29/06/2023	Publicly Available
8	GS4GG	Design change requirements	Version 1.1, dated: 14/04/2023	Publicly Available
9	GS4GG	Validation and verification standard	Version 1.0, dated: 06/03/2023	Publicly Available
10	GS4GG	Site visit and remote audit requirements and procedures	Version 2.0, dated: 30/05/2023	Publicly Available
11	GS4GG	Applicability of minimum site visit requirement by VVB	Version 2.0, dated: 16/08/2021	Publicly Available
12	GS4GG	Validation & verification body requirements	Version 2.0, dated: 14/01/2021	Publicly Available
13	GS4GG	Renewable energy activity requirements	Version 1.4, dated: 16/08/2021	Publicly Available

14	GS4GG	GHG Emissions Reduction & Sequestration Product Requirements	Version 2.2, dated: 28/08/2023	Publicly Available
15	GS4GG	Gold standard eligible impact quantification methodologies	Version 2.4, dated: 22/06/2023	Publicly Available
16	GS4GG	Template Guide: Key Project Information & Project Design Document (PDD)	Version 1.4, dated 21/06/2023	Publicly Available
17	CDM	CDM Validation and Verification standard for project activities	Version 3.0	Publicly Available
18	CDM	ACM0002: Grid-connected electricity generation from renewable sources	Version 21.0	Publicly Available
19	CDM	Tool 1: Tool for the demonstration and assessment of additionality	Version 07.0.0	Publicly Available
20	CDM	Tool 7: Tool to calculate the emission factor for an electricity system	Version 07.0.0	Publicly Available
21	CDM	Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period	Version 3.0.1	Publicly Available

22	Central Electricity Authority, Ministry of Power, GoI	CDM – CO_2 Baseline Database (CO_2 Baseline Database for Indian Power Sector)	Version 19.0	Publicly Available
23	ISO	Standards: ISO 14064-2:2019 & ISO 14064-3:2019	N/A	N/A
24	VKU Certification Pvt. Ltd.	QMS Procedures and SOPs	N/A	VKU Certification Pvt. Ltd.
25	Yadav Measurements	Certificate of calibration; Issued by Yadav Measurements Private Limited	Certificate No. YMPL/325385/124879, YMPL/325385/124880, YMPL/325386/124881	Infinite Environmental Solutions Limited
26	Solar Energy Corporation of India Limited	Commissioning cum COD Certificate	Ref No. SECI/wind/ISTS/Tranche-2/COD/OSWPPL/29352; dated 06/03/2019, and Ref No. SECI/wind Tranche-2/COD-II/OSWPPL; dated 13/04/2019	Infinite Environmental Solutions Limited
27	Greeenko, Voltech O And M Services, REVA, Orion Security Solutions Pvt. Ltd.	Employment Records 1. Employment Generation Details 2. Attendance Register 3. Salary Slips	N/A (AT has cross checked the employment records of the 1st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2nd Crediting period)	Infinite Environmental Solutions Limited
28	Greenko	Training Record: 1. Training Attendance	N/A (AT has cross checked the training records of the 1st crediting period to confirm the reasonableness of the assumptions	Infinite Environmental Solutions Limited

			made by the PD during the current 2nd Crediting period)	
29	M/S Kshema Power & Infrastructure Company Pvt. Ltd, Chennai	Protection and Metering Single Line Diagram	Dated: 27/02/2018	Infinite Environmental Solutions Limited
30	GoI, CEA, Southern Regional Power Committe	Regional Energy Account	N/A (AT has cross checked the regional energy account of the 1st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2nd Crediting period)	Infinite Environmental Solutions Limited
31	Greenko Sironj Wind Power Pvt Ltd	Invoices	N/A (AT has cross checked the invoices of the 1st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2nd Crediting period)	Infinite Environmental Solutions Limited
32	Govt. of National Capital Territory of Delhi	O & M Agreement between Orange Sironj Wind Power Pvt Ltd and Siemens Gamesa Renewable Power Private Limited	Dated: 16/01/2018	Infinite Environmental Solutions Limited
33	Govt. of National Capital Territory of Delhi	Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt Ltd and Solar energy Corporation of India Limited	Dated: 19/12/2017	Infinite Environmental Solutions Limited

34	Orange Sironj Wind Power Pvt Ltd	Official Development Assistance Declaration	Dated: 11/04/2024	Infinite Environmental Solutions Limited
35	GS4GG	Cover Letter	Dated: 25/06/2024	Infinite Environmental Solutions Limited
36	Ministry of Corporate Affairs, Government of India	Certificate of Incorporation pursuant to change of name,	Dated: 28/12/2021	Infinite Environmental Solutions Limited
37	Greenko Sironj Wind Power Pvt Ltd.	Declaration for PPA	Dated: 20/01/2024	Infinite Environmental Solutions Limited
38	Greenko Sironj Wind Power Pvt Ltd	Declaration for no double counting	Dated: 20/01/2024	Infinite Environmental Solutions Limited
39	Greenko	Emergency Response Plan	Dated: 22/09/2020	Infinite Environmental Solutions Limited
40	Siemens Gamesa Renewable Power Private Limited	Delivery Challan of Hazardous waste and Manifest for Hazardous and Other Waste (FORM-10)	Dated: 03/11/2023	Infinite Environmental Solutions Limited
41	Greenko	No Discrimination Policy	Dated: 16/07/2017	Infinite Environmental

				Solutions Limited
42	ERM India Private Limited	Environment and Social Impact Assessment	Version 0.2, Dated: 23/08/2019	Infinite Environmental Solutions Limited
43	Govt. of National Capital Territory of Delhi	Development, Design, Supply, Transportation, Erection, Testing and Commissioning Contract between Orange Sironj Wind Power Pvt. Ltd. and Siemens Gamesa Renewable Power Private Limited	Dated: 22/11/2017	Infinite Environmental Solutions Limited
44	Google Inc.	Google Earth Pro	N/A	Publicly Available
45	Google Inc.	GPS Map Camera	N/A	Publicly Available
46	VKU Certification	VKU.24W. Audit and Sampling Plan	VKU.F24W. Audit and Sampling Plan_VKU.VAL.07.23.GS_6290	VKU Certification
47	VKU Certification	VKU.F46W. Attendance Sheet for Audit	VKU.F46W. Attendance Sheet for Audit_VKU.VAL.07.23.GS_6290	VKU Certification
48	VKU Certification	Screenshots taken during remote audit on 11/01/2024	N/A	VKU Certification
49	Greenko	Grievance record	N/A (AT has cross checked the grievance records of the 1st crediting period to confirm the implementation of ongoing	Infinite Environmental Solutions Limited

			communication with local stakeholder)	
50	VKU certification	Recording of remote audit	N/A	VKU Certification
51	Greenko	Snap of Bird Strike Register	N/A (AT has cross checked the Bird strike register of the 1st crediting period to confirm the implementation of mitigation measures)	Infinite Environmental Solutions Limited

3.2 Remote Inspection

VKU Certification Pvt. Ltd. has conducted remote audit on 11/01/2024 using video call over Microsoft Teams and same has been recorded and stored /50/ for validation (RCP) of this project activity **"200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290)** following "Remote audit techniques" mentioned in Clause 2.C of the GS4GG Site visit and remote audit requirements and procedures /10/ and Applicability of minimum site visit requirement by VVB /11/. The risk of remote audit assessed by the assessment team is mentioned below:

Sl. No.	Scope of Assessment	Risks Identified	Conclusion
1.	Location of project	Low Risk	Assessment team concludes that there is low risk in location of this project as it was confirmed during the during the remote audit by interviewing PD representatives and local stakeholders along with Google earth pro, the same is assessed in section 4.1.4 of the final FVR; version 3.1 dated 29/07/2024
2.	Technologies and/or measures	Low Risk	Assessment team concludes that there is low risk in technologies and/or measures applied in this project activity as this project activity is already registered under GS4GG. All the technologies and/or measures applied is confirmed during the remote audit through remote inspection, the same is assessed in section 4.1.5 of the final FVR; version 3.1 dated 29/07/2024

3.	Data and parameters fixed ex ante	Low Risk	Assessment team concludes that there is low risk in fixed ex ante parameters mentioned in Section B.6.2 of Key Project Information & Project Design Document (PDD); Version 05 dated 27/06/2024 as these parameters are based on the applied latest CDM methodology and sourced from CEA database.
4.	Data and parameters to be monitored	Low Risk	Assessment team concludes that there is low risk in Data and parameters to be monitored mentioned in Section B.7.1 of Key Project Information & Project Design Document (PDD); Version 05 dated 27/06/2024 as these parameters are based on the applied latest CDM methodology and other elements of monitoring plan mentioned in section B.7.3 of the project activity.
5.	Other elements of monitoring plan	Low Risk	Assessment team concludes that there is low risk in other elements of monitoring plan mentioned in section B.7.3 of the project activity
6.	Assessment that project complies with GS4GG Gender Sensitive requirements	Low Risk	Assessment team concludes that there is low risk in compliance with GS4GG Gender Sensitive Requirements mentioned in section D.2 of Key Project Information & Project Design Document (PDD); Version 05 dated 27/06/2024 as it complies with GS4GG Gender Equality Requirements & Guidelines.
7.	Stakeholder mitigation measures	Low Risk	Assessment team concludes that there is low risk in Stakeholder mitigation measures as it was confirmed by interviewing PD representatives and local stakeholders during remote audit and the same is assessed in section 4.7 and 4.8 of the final FVR; Version 3.1 dated 29/07/2024

The details of activities performed during remote audit, site location, date and involved team members are mentioned below:

Date of Remote Audit: 11/01/2024

Activity Performed during remote audit	Site Location	Date	Team Member
Introduction, scope and objective of work, roles and responsibilities of audit team, resources required, and timetable of the remote audit including time for closing meeting and any concerns from PP.	Remote audit conducted over Video Call using Microsoft Teams	11/01/2024	Vivek Kumar Ahirwar, and Anand Kumar
Discussion over – • Technology, Location and Implementation of the project activity • Choice and applicability of baseline methodology(ies) • Project boundary and emission sources included in the project boundary • Baseline identification • Additionality of the project activity (Baseline alternatives, GHG programme consideration, Investment analysis, identified barriers, Common Practice analysis) • Parameter fixed Ex-ante and Baseline emissions, Project emissions and Leakage calculation • Monitoring plan (feasibility of monitoring arrangements described in PD/PDD, QA/QC procedures, responsibility of	Remote audit conducted over Video Call using Microsoft Teams	11/01/2024	Vivek Kumar Ahirwar, and Anand Kumar

implementation of monitoring plan, data recording & storage procedures) • Operational lifetime of the project activity, Start date of the project activity, Crediting period • Environmental impacts and need of EIA • ongoing communication procedure with relevant local stakeholder • Interview of relevant Local Stakeholders Compilation of the findings by Auditor/s (CARs/CLs) Discussion of the audit findings to the client and agreement on the issues raised and agreement on timelines.			

3.3 Interview

Following clause 7.16.6e of GS4GG Validation and Verification Standard; Version 1.0 dated 06/03/2023, VKU assessment team has taken consent from all the interviewees present during remote audit conducted on 11/01/2024 to disclose their names and designation/affiliation in the final validation report of this project activity ""**200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290)** and none of them have any objection over this hence, there is no perceived or potential conflict of interest. All the interviews conducted during the validation of this project activity as recorded in VKU.F46W. Attendance Sheet for Audit_VKU.VAL.07.23.GS_6290/47/ is listed below:

S. No.	Interviewee			Date	Subject	Team Member
	Last Name	First Name	Affiliation			

1.	Krishnam Raju M (Male)	Murali	Greenko-HO Assistant Manager	11/01/2024	Please refer section 3.2 (Activity Performed during remote audit)	Vivek Kumar Ahirwar
2.	Naga Venkata Giri (Male)	V	Greenko-HO Assistant Manager			
3.	Balasubramanian (Male)	V	Greenko-Poovani Assistant Manager			
4.	Ramakrishnan (Male)	G	Greenko-Poovani Assistant Manager			
5.	Nixon (Male)	S	Greenko-Poovani Manager			
6.	Ponraj (Male)	M	Greenko-Poovani Security officer			
7.	Arun (Male)	M	Greenko-Poovani Office Assistant			
8.	Annamalai (Male)	A	SIS Poovani Security			
9.	Rajeev (Male)		Senior Analyst, Infinite Solutions			
10.	Kumar (Male)	Anand	Project Trainee–			

			VKU Cert.Pvt. Ltd.			
11.	Kumar Ahirwar (Male)	Vivek	Lead Auditor - VKU Cert. Pvt. Ltd.			
12.		Iyyapan (Male)	Local Stakeholder			
13.	Perumal (Male)	Ayyam	Local Stakeholder			

3.4 Sampling Approach

No ~~any~~ sampling plan is applied in the validation of this project activity. Assessment team has cross-checked 100% of the records.

3.5 Eligibility of the project under Gold Standard

The General Eligibility Criteria under GS4GG Principles & Requirements are as follows:

Eligibility Criteria	Description	Justification by PD	VKU Assessment
Types of Projects	The project type is a Wind Power Plant which generates power using wind Energy. The project activity belongs to the type of Renewable energy that generate and deliver power to the Indian grid.	The Wind Power Plant Project is conceived as a grid connected wind power plant within the category of renewable energy supply.	Assessment team confirms that it is a wind power project which harness renewable energy and supply electricity to the Indian grid as per the Commissioning cum COD Certificate /26/ and Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt Ltd and Solar energy Corporation of India Limited /33/

Location of Project:	The Project activity is located in Dist. Thoothukudi, Tamil Nadu state in India. Further details have been provided in section A.2 of PDD.	The Power purchase agreement between Project Proponent and Solar Energy Corporation of India Limited.	Assessment team confirms that this project activity is located in several villages of Thoothukudi district in Tamil Nadu state of India on the basis of location mentioned in Commissioning cum COD Certificate /26/, Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt. Ltd. and Solar Energy Corporation of India Limited /33/ and remote audit.
Project Area, Project Boundary and Scale:	Project Area and Boundary are defined in line with the applicable Methodology ACM0002 Version 21. The project activity includes 200 MW installed capacity and is Large Wind power plants with an installed capacity above 15 MW to be qualified as a large-scale wind plant (in accordance with UNFCCC rules).	Please refer section A.2 of PDD for the Geographical coordinates. The project has an install capacity of 200 MW which is more than 15 MW, therefore applies as a Large-Scale project. See section A.4 of the PDD.	The project area and project boundary include the project power plant and all power plants connected physically to the electricity system that the project power plant is connected to. This includes the wind turbine installation, pooling and sub-stations. The project activity evacuates the power to the INDIAN grid. Therefore, all the power plants contributing electricity to the Integrated grid have been considered in the project boundary. Assessment team confirms that project area and project boundary

			is in line with the applied Methodology ACM0002; Version 21. Assessment team confirms that it is a large-scale project activity as per the GHG Emissions Reduction & Sequestration Product Requirements /14/
Host Country Requirements:	The project activity follows the social wellbeing, Environmental wellbeing, Economic wellbeing and Technological wellbeing.	Projects is in compliance with India's legal, environmental, ecological and social regulations.	Assessment team confirms that this project activity complies with India's legal, environmental, ecological and social regulations as per the interview conducted during remote audit and Environment and Social Impact Assessment submitted by the PD. /42/
Contact Details:	Project Participant: Greenko Sironj Wind Power Pvt Ltd. Name of the contact person: Mr. Murali Krishnam Raju M Email: muraliraju.m@greenkogroup.com	GS4GG-Cover Letter	Assessment team confirms that the contact details are correct as per the GS4GG cover letter /35/, Certificate of Incorporation pursuant to change of name /36/ and remote audit.
Legal Ownership and Other Rights:	The project activity is developed by the PD.	The commissioning certificates and the Power Purchase Agreement	Assessment team confirms that the legal owner of this project activity was Orange

		(PPA) is in the name of the project participant.	Sironj Wind Power Pvt. Ltd. as per GS4GG Cover Letter /35/, Commissioning cum COD Certificate /26/ and Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt. Ltd. and Solar Energy Corporation of India Limited /33/. However, the name of Orange Sironj Wind Power Pvt. Ltd. is now changed to Greenko Sironj Wind Power Pvt. Ltd. as per the Certificate of Incorporation pursuant to change of name issued by Ministry of Corporate Affairs, Government of India /36/. Hence, Greenko Sironj Wind Power Pvt. Ltd. is now the legal owner of this project activity.
Official Development Assistance (ODA) Declaration:	The project had private funding and funding from bank. The PD hereby confirms that there is no public funding from Annex 1 countries and no diversion of Official Development Assistance (ODA) involved in the project activity. The project is funded by bank.	The Project Developer declares that the project has not directly or indirectly received or benefited from official development assistance. An Official Development Assistance (ODA) declaration (i.e., GS Annex D) has Been submitted to VVB.	Assessment team confirms that this project activity has not received funding from Annex 1 countries as per the interview conducted during remote audit and ODA declaration /34/ given by PD.

The eligibility criteria as per section 3.1.1 of GS4GG Principles & Requirements are described as follows:

Eligibility Criteria	Justification by PD	VKU Assessment
1. Demonstrate if project is pre identified as eligible by being referenced in Gold Standard Activity Requirements, Impact Quantification Methodologies or Product Requirements	The Project activity is already registered in GS4GG, and it meets all eligibility criteria as mentioned below.	Assessment team confirms that this project activity is already registered in GS4GG and it complies with all GS4GG requirements and guidelines. /5/ /6/ /7/ /8/ /9/ /10/ /11/ /12/ /13/ /14/ /15/16/ /17/
2. If not pre identified as eligible, provide evidence of Gold Standard approval	Not applicable	Assessment team confirms that this project activity is eligible under GS4GG as it meets all the of the GS4GG. It can be referred from above table.
3. Demonstrate how the project meets the General Eligibility criteria of the applicable Activity Requirements	General Eligibility criteria has been justified in the above table	Assessment team confirms that this project activity meets the General Eligibility criteria of the applicable Renewable Energy Activity Requirements It can be referred from the table below.
4. Confirm that the project is not registered with any other voluntary or compliance schemes.	The project activity is not registered with any other voluntary or compliance schemes.	Assessment team confirms that this project activity is not registered under any other voluntary or compliance schemes. The details of the registries checked are as follows: 1) http://cdm.unfccc.int/ 2) https://www.recregistryindia.nic.in/ 3) https://verra.org/verra-standards-and-programs/ 5) https://www.irecstandard.org/ 6) https://cri.nccf.in/

		7) International Carbon Registry 8) GCC Projects Portal PD has also submitted a declaration which states that this project activity has neither applied or registered to claim REC benefits under any other GHG Mechanism nor it is rejected by any other GHG program. /38/
5. Demonstrate the activity is NOT located in a host country, region, locality or state that has an emission reduction cap enforced OR has the possibility to trade emissions that include the scope of the proposed project	The host country for project activity is India which is a non-annex I Country. Hence, no emission reduction cap enforced as well as no emission trading system implemented in the host country.	Assessment team confirms that this project activity is implemented in Thootukudi district of Tamil Nadu in India which is a non-annex I Country and hence, no emission reduction cap is enforced as well as no emission trading system implemented in the host country. The location of this project activity is confirmed on the basis of location mentioned in Commissioning cum COD Certificate /26/, Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt. Ltd. and Solar Energy Corporation of India Limited /33/ and remote audit.
6. Demonstrate that no potential for double counting of impacts if the Project Area overlaps with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature.	The Project is not registered in any other mechanism. Also, self-declaration for no double counting has been provided by the PD.	Assessment team has cross-checked the following registries: 1) http://cdm.unfccc.int/ 2) https://www.recregistryindia.nic.in/ 3) https://verra.org/verra-standards-and-programs/ 5) https://www.irecstandard.org/

		6) https://cri.nccf.in/ 7) International Carbon Registry 8) GCC Projects Portal This project activity is not registered in any of the above registries, hence, the potential for double counting of impacts is zero. PD has also submitted a declaration /38/ which states that this project activity has neither applied or registered to claim REC benefits under any other GHG Mechanism nor it is rejected by any other GHG program and confirms that there would not be any double counting of the SDG Impacts.
7. Demonstrate that the project is in compliance with applicable Host Country's legal, environmental, ecological and social regulation.	The project activity has obtained all the authorities' approvals to comply with legal, environmental, ecological and social regulations before begin the implementation.	Assessment team confirms that this project activity complies with India's legal, environmental, ecological and social regulations as per the interview conducted during remote audit and Environment and Social Impact Assessment submitted by PD. /42/

The general eligibility criteria under Renewable Energy Activity Requirements are mentioned below:

Eligibility Criteria	**Justification by PD**	**VKU Assessment**
Project Type	As discussed above, the project type is eligible.	Assessment team confirms that it is a wind power project which harness renewable energy and supply electricity to the Indian grid as per the Commissioning cum COD Certificate /26/ and Power Purchase Agreement

		(PPA) between Orange Sironj Wind Power Pvt Ltd and Solar energy Corporation of India Limited /33/
Project Location:	The project is located in villages of Thoothukudi district in the State of Tamil Nadu of India.	Assessment team confirms that this project activity is located in several villages of Thoothukudi district in Tamil Nadu state of India on the basis of location mentioned in Commissioning cum COD Certificate /26/, Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt. Ltd. and Solar Energy Corporation of India Limited /33/ and remote audit.
Project Scale	The project activity is a 200 MW Wind power project and thus qualifies under large scale projects.	As per GS4GG GHG Emissions Reduction & Sequestration Product Requirements /14/ - "All Projects exceeding the small-scale thresholds are defined as large scale. Small scale projects are defined following CDM project standard for project activities, as below; a) Type 1: Renewable energy Projects: maximum output capacity of 15 MW(e) or 45MW (th)." As per renewable energy activity requirement /13/ any renewable energy Project with a maximum output capacity of 15 MW (or an appropriate equivalent) is defined as small scale project.

		Since this project activity has capacity of 200 MW that is more than 15 MW hence, it comes under large scale project activity.

4 VALIDATION FINDINGS

A total of **11** findings were raised, which includes: **04 Corrective Action Requests (CARs)**; **06 Clarification Requests (CLs)** and **01 Forword Action Request (FAR)**. All the findings were successfully resolved by the PD except FAR#01. FAR#01 is related with the VVB who will perform 1st verification of this project activity. The same is discussed in detail in Appendix 3 of this validation report.

4.1 Purpose and General description of Project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05 dated 27/06/2024/1/, ER Sheet; Version 01 dated 04/01/2024, Version 02 dated 01/02/2024 Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CAR#01 and CL#01 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that purpose and general description of project mentioned in Section A.1 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024 /1/ is correct and it complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/, previously registered Key Project Information & Project Design Document

	(PDD); Version 05, dated 30/12/2019 /3/ and fulfils the requirements of Gold Standard for Global Goals.

4.1.1 Identification of project type

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024 /1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	No any findings were raised for the identification of project type.
Conclusion	Assessment Team confirms that it is a renewable energy project as mentioned in Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ and it is correct as per previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/, Commissioning cum COD Certificate issued by Solar Energy Corporation of India Limited /26/, Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt. Ltd. and Solar energy Corporation of India Limited /33/, Development, Design, Supply, Transportation, Erection, Testing and Commissioning Contract (EPC Contract) between Orange Sironj Wind Power Pvt Ltd and and Siemens Gamesa Renewable Power Private Limited /43/.

4.1.2 Eligibility of the project under Gold Standard

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, ER Sheet;

	Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and remote audit.
Findings	CL#01 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that this project is eligible under Gold Standard as mentioned in Section A.1.1: Eligibility of the project under Gold Standard, of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ and it complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/, GS4GG Principles and Requirements; Version 1.2, dated: 23/10/2019 /5/, GS4GG Renewable energy activity requirements; Version 1.4, dated: 16/08/2021 /13/ and Gold standard eligible impact quantification methodologies, Version 05, dated 30/12/2019 /15/.

4.1.3 Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD; Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CL#02 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that legal ownership of products generated by the project and legal rights to alter use of resources required to service the project mentioned in Section A.1.2 of Key Project Information & Project Design Document (PDD); Version

	05, dated 27/06/2024/1/ is correct and Greenko Sironj Wind Power Pvt Ltd. is the legal owner of products generated by the project and it has legal rights to alter use of resources required to service the project as the name of 'Orange Sironj Wind Power Pvt Ltd' is now changed to 'Greenko Sironj Wind Power Pvt Ltd.' from 28/12/2021 as per the Certificate of Incorporation pursuant to change of name, Ministry of Corporate Affairs, Government 0f India /36/, previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and GS4GG cover letter /35/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.1.4 Location of Project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024 /1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/and remote audit.
Findings	No any findings were raised for location of project.
Conclusion	Assessment Team confirms that location of project including geocoordinates of all the WTGs mentioned in Section A.2 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024 /1/ is correct as per Commissioning cum COD Certificate issued by Solar Energy Corporation of India Limited /26/, Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt. Ltd. and Solar energy Corporation of India Limited /33/ and previously registered Key Project Information & Project Design Document (PDD); Version 05,

	dated 30/12/2019 /3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/

4.1.5 Technologies and /or measures

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CL#02 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that technology and/or measures mentioned in Section A.3 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is correct as per Development, Design, Supply, Transportation, Erection, Testing and Commissioning Contract between Orange Sironj Wind Power Pvt Ltd and Siemens Gamesa Renewable Power Private Limited /43/ and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.1.6 Scale of Project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting

	documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/and remote audit.
Findings	No any findings were raised for scale of the project.
Conclusion	Assessment Team confirms that it is a large-scale project as mentioned in Section A.4 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/and it is correct as per Commissioning cum COD Certificate issued by Solar Energy Corporation of India Limited /26/, Power Purchase Agreement (PPA) between Orange Sironj Wind Power Pvt. Ltd. and Solar energy Corporation of India Limited /33/ and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/ and GS4GG GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /14/.

4.1.7 Funding sources of project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	No any findings were raised for funding sources of project.
Conclusion	Assessment Team confirms that no public funding from Annex 1 countries and no diversion of Official Development Assistance (ODA) /34/ is involved in this project activity as mentioned in Section A.5 of Key Project Information & Project Design

	Document (PDD); Version 05, dated 27/06/2024/1/. It is correct as per declaration given by the project developer and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2 Application and selection of methodologies and standardized baselines

4.2.1 Reference of approved methodology(ies)

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04 dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, ER Sheet; Version 01, dated 04/01/2024, Version 02 dated 01/02/2024 Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and remote audit.
Findings	No any findings were raised.
Conclusion	Assessment Team confirms that methodology /18/ and tools /19/ /20/ /21/ mentioned in Section B.1 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is the latest one and these are as follows: Methodology: 1. ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0 /18/ Tools: 1. Tool 1: Tool for the demonstration and assessment of additionality; Version 07.0.0 (EB 70, Annex 08) /19/ 2. Tool 7: Tool to calculate the emission factor for an electricity system; Version 07.0.0 (EB 100, Annex 4) /20/

	3. Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period; Version 3.0.1 (EB 66, Annex 47) /21/ It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/, Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /15/, GHG Emissions Reduction & Sequestration Product Requirements, Version 2.2, dated: 28/08/2023 /14/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2.2 Applicability of methodology (ies) and standardized baselines

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04 dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	No any findings were raised.
Conclusion	Assessment Team confirms that the applicability criterion of methodology /18/ and tools /19/ /20/ /21/ as mentioned in Section B.1 the Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is correct and this project activity fulfils all the requirements of GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/ Gold standard eligible impact quantification methodologies; Version

	2.4, dated: 22/06/2023 /15/, GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /14/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2.3 Deviation from methodology and/or methodology tool

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04 dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05 dated 27/06/2024/1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	No any findings were raised.
Conclusion	Assessment Team confirms that methodology and tools mentioned in Section B.1 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is the latest one and these are as follows: Methodology: 1. ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0 /18/ Tools: 1. Tool 1: Tool for the demonstration and assessment of additionality; Version 07.0.0 (EB 70, Annex 08) /19/ 2. Tool 7: Tool to calculate the emission factor for an electricity system; Version 07.0.0 (EB 100, Annex 4) /20/

	3. Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period; Version 3.0.1 (EB 66, Annex 47) /21/ It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/, Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /15/, GHG Emissions Reduction & Sequestration Product Requirements, Version 2.2, dated: 28/08/2023 /14/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/. No any deviation is found either in methodology /18/ or tools /19/ /20/ /21/used in the Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/.

4.2.4 Project Boundary, sources and GHGs

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04 dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CL#05 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that the project boundary and sources of GHGs mentioned in Section B.3 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is correct as per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0 /18/, GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/ and also complies with the guidelines

	mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2.5 Establishment and description of baseline scenario

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CAR#01 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that the baseline scenario established in Section B.4 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is correct as per Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period; Version 3.0.1 /21/, para 24 of the applied methodology ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0 /18/ and GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/. The baseline emission factor is calculated as per the latest CDM – CO_2 Baseline Database; Version 19.0 /22/ released by Central Electricity Authority, Ministry of Power, GoI, available at the time of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ submission for renewal. The OM, BM & CM of the INDIAN grid used for the project activity is as follows:

Parameter	Value	Nomenclature	Source
$EF_{grid,OM,y}$	0.9580 tCO_2/MWh	Operating margin CO_2 emission factor for the project electricity system in year y	Calculated as the last 3-year (2020-21, 2021-22 and 2022-23) generation-weighted average, sourced from Baseline CO_2 Emission Database; Version 19.0 /22/, December 2023 published by Central Electricity Authority (CEA), Government of India
$EF_{grid,BM,y}$	0.8670 tCO_2/MWh	Build margin CO_2 emission factor for the project electricity system in year y	Baseline CO_2 Emission Database; Version 19.0 /22/, December 2023 published by Central Electricity Authority (CEA), Government of India
$EF_{grid,CM,y}$	0.9352 tCO_2/MWh	Combined margin CO_2 emission factor	Calculated as the weighted average of the operating

			for the project electricity system in year y	margin (0.75) & build margin (0.25) values, sourced from Baseline CO_2 Emission Database; Version 19.0 /22/, December 2023 published by Central Electricity Authority (CEA), Government of India
	It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.			

4.2.6 Demonstration of additionality

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04 dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05 dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/and remote audit.
Findings	No any findings were raised.
Conclusion	It is a retroactive project and already registered under gold standard. Assessment Team confirms that this project is additional as per Tool 1: Tool for the demonstration and assessment of

	additionality; Version 07.0.0 (EB 70, Annex 08) /19/. It also complies with GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/ and the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2.7 Prior Consideration

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04 dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	No any findings were raised.
Conclusion	The project is undergoing renewal of crediting period. Hence prior consideration not required.

4.3 Estimation of emission reductions (SDG 13) or net anthropogenic removals and other Sustainable Development Goals

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	No findings were raised.

Conclusion	PD has considered 3 SDGs under this project activity. The Sustainable Development Goals targeted, their most relevant SDG targets and SDG impacts are mentioned below: **Sustainable Development Goals Targeted** / **Most Relevant SDG Target** / **SDG Impact** **SDG 13:** Climate Action / N/A / Emissions Reductions **SDG 8:** Decent Work and Economic Growth / 8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value / 1. No. of trainings provided to the employees/year; 2. Employment generated due to project activity. **SDG 7:** Affordable and Clean Energy / 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix / MWh of renewable energy generated Summary of ex ante estimates of each SDG Impacts are as follows: SDG 7: Affordable and Clean Energy YEAR / BASELINE ESTIMATE / PROJECT ESTIMATE / NET BENEFIT Year 1 / 0 / 635,976 MWh / 635,976 MWh Year 2 / 0 / 635,976 MWh / 635,976 MWh Year 3 / 0 / 635,976 MWh / 635,976 MWh Year 4 / 0 / 635,976 MWh / 635,976 MWh Year 5 / 0 / 635,976 MWh / 635,976 MWh SDG 8: Decent Work and Economic Growth

PD has considered 3 SDGs under this project activity. The Sustainable Development Goals targeted, their most relevant SDG targets and SDG impacts are mentioned below:

Sustainable Development Goals Targeted	Most Relevant SDG Target	SDG Impact
SDG 13: Climate Action	N/A	Emissions Reductions
SDG 8: Decent Work and Economic Growth	8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value	1. No. of trainings provided to the employees/year
		2. Employment generated due to project activity.
SDG 7: Affordable and Clean Energy	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	MWh of renewable energy generated

Summary of ex ante estimates of each SDG Impacts are as follows:

SDG 7: Affordable and Clean Energy

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	0	635,976 MWh	635,976 MWh
Year 2	0	635,976 MWh	635,976 MWh
Year 3	0	635,976 MWh	635,976 MWh
Year 4	0	635,976 MWh	635,976 MWh
Year 5	0	635,976 MWh	635,976 MWh

SDG 8: Decent Work and Economic Growth

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	0 Training, 0 Jobs	1 Training, 15 Jobs	1 Training, 15 Jobs
Year 2	0 Training, 0 Jobs	1 Training, 15 Jobs	1 Training, 15 Jobs
Year 3	0 Training, 0 Jobs	1 Training, 15 Jobs	1 Training, 15 Jobs
Year 4	0 Training, 0 Jobs	1 Training, 15 Jobs	1 Training, 15 Jobs
Year 5	0 Training, 0 Jobs	1 Training, 15 Jobs	1 Training, 15 Jobs

SDG 13: Climate Action

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	594,764 tCO_2e	0 tCO_2e	594,764 tCO_2e
Year 2	594,764 tCO_2e	0 tCO_2e	594,764 tCO_2e
Year 3	594,764 tCO_2e	0 tCO_2e	594,764 tCO_2e
Year 4	594,764 tCO_2e	0 tCO_2e	594,764 tCO_2e
Year 5	594,764 tCO_2e	0 tCO_2e	594,764 tCO_2e

Assessment Team confirms that the estimation of emission reductions (SDG 13) or net anthropogenic removals and other Sustainable Development Goals (SDG 7 and SDG 8) mentioned in Section B.6 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is correct as per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources; Version 21.0 /18/ and it complies with the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/ and guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

Assessment Team conclude that parameters and values mentioned under SDGs 7, 8 and 13 of SDG Impact Tool submitted by PD are

	consistent and correct with the Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024 which are validated above.

4.4 Monitoring Plan

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Final ER Sheet; Version 03, dated 27/06/2024/2/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CL#01 and CL#03 were raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	As part of monitoring plan, these are the following data/parameters which will be monitored under 3 SDGs (SDG 7, SDG 8 & SDG 13): SDG 7: Affordable and Clean Energy <table><tr><td>Data / Parameter</td><td>$EG_{PJ,y}$</td></tr><tr><td>Unit</td><td>MWh/year</td></tr><tr><td>Description</td><td>Quantity of net electricity supplied to the grid during the year y.</td></tr><tr><td>Source of data</td><td>Monthly energy generation statement (REA Account) provided by SRPC (Southern Regional Power committee) every month.</td></tr><tr><td>Measurement methods and procedures</td><td>Data Type: Measured Monitoring equipment: Energy Meters of accuracy</td></tr></table>

		class 0.2s Archiving Policy: Paper &/or Electronic Calibration frequency of meter: Once in 5 years as per CEA guidelines. The Net electricity supplied to the grid by the project activity will be calculated as a difference of electricity exported to the grid, electricity imported from the grid obtained from Monthly Meter reading reports as per below equation: Net Electricity = Export – Import
	Monitoring frequency	Measurement: Continuous Recording: Monthly Monitoring Method: Monthly energy generation statement includes monthly recording of electricity export & import with the help of Energy meters of accuracy class 0.2s.
	QA/QC procedures	Quantity of net electricity supplied to the grid will be cross checked from the Invoices/ Monthly Bill raised by the Project Participant to SECI. The project proponent shall ensure that calibration of electricity meters is carried out in-line with PPA which recommends at least once in 5-year calibration or whenever abnormal difference/inconsistency is observed between main meter and check meter.

SDG 8: Decent Work and Economic Growth

Data / Parameter	Quantitative employment Quality of employment

	Unit	Number (employees) Number (Trainings)
	Description	• Number of project employees with Number of male/female, permanent/temporary, age and person with disabilities. • Number of Trainings provided to employees & O&M staff
	Source of data	• Employee Records • Training Records (HSE & HR)
	Measurement methods and procedures	Employee Records Training Records (HSE & HR)
	Monitoring frequency	Once in a Monitoring period
	QA/QC procedures	The number of persons employed is mentioned in the plant register, which can be crossed checked with daily attendance register.

SDG 13: Climate Action

Data / Parameter	Emissions Reduction
Unit	tCO_2e
Description	Reduction in CO_2 emission due to implementation of project activity
Source of data	Calculated as per Tool 7: Tool to calculate the emission factor for an electricity system. The data for emission factor are obtained from “CO_2 Baseline Database for Indian Power Sector” version 19.0, published by the Central Electricity Authority, Ministry of Power, Government of India.

	Measurement methods and procedures	Calculated from CEA database; Version 19.0 and Energy Generation
	Monitoring frequency	The energy meters are calibrated once in every 5 years by an independent testing laboratory. The calibration of the meters will be done once in 5 years as per CEA guidelines. The accuracy class of meters, feeder arrangements, metering and determination of net electricity supplied to grid and calibration interval are under purview of state electricity board and PP do not have any control on it.
	QA/QC procedures	A check meter is also installed near the main meter to cross check the electricity exported to the grid. The check meter reading is used in case of failure of main meter.

In case Main meter or Check meter is found to be outside the acceptable limits of accuracy or faulty or not functioning properly, it will be repaired, recalibrated or replaced as soon as possible. In the event that the Main meter is not in service as a result of maintenance, repairs or testing, the Check meter will be used for readings and in the event that the Main meter and check meter both are not in service as a result of maintenance, repairs or testing, the Standby meter will be used for readings. The net electricity is calculated from the difference between export and import, which is used for baseline emission calculations, and the export and import readings are taken from the energy meters which are required to be calibrated as per the calibration frequency. If the calibration is delayed, the error factor will be applied as per the accuracy class of the energy meter for the delayed period at the time of verification.

	Assessment Team confirms that the monitoring plan mentioned in Section B.7 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is correct as there is no change from the previous monitoring plan /3/ mentioned in the previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and it also complies with the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/ and guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.5 Project Start date, crediting period type and duration

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CL#01 and CL#03 were raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that start date of this project activity is 22/11/2017 and it is correct as per the Development, Design, Supply, Transportation, Erection, Testing and Commissioning Contract between Orange Sironj Wind Power Pvt. Ltd. and Siemens Gamesa Renewable Power Private Limited /43/ and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/. The 2nd crediting period for this project activity as mentioned in section C.2 of Key Project Information & Project Design Document (PDD); Version 04, dated 11/04/2024 is from

	07/03/2024 to 06/03/2029 (Inclusive of both dates). It is renewable and length of this crediting period is 5 years. It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/.

4.6 Environmental Impacts

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	No findings were raised.
Conclusion	Assessment Team confirms that this project activity does not harm environment as mentioned in Appendix-1: Safeguarding Principles Assessment of Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/. It is correct as per the Environment and Social Impact Assessment; Version 0.2, dated: 23/08/2019 /42/ carried out by ERM India Private Limited.

4.7 Local Stakeholder Consultation

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CL#03 was raised and closed successfully. For more details, please refer Appendix 3.

Conclusion	As per clause 5.1.47 of GS4GG Principles & Requirements; Version 1.2, the scope of Design certification renewal is limited to: a) Changes in the Project as related to the General Eligibility Criteria. b) Incorporation of any relevant updates to the Gold Standard Requirements. c) Re-definition of Baseline Scenario and any impact of change on the Eligibility Principles, Criteria and Requirements. d) Any Gold Standard activity, product and methodology-specific Requirements. e) Demonstration of Ongoing Financial Need, where relevant This project activity is already registered in GS4GG and PD had conducted the Stakeholder consultation physical meeting retroactively and no any complementary stakeholder meeting is conducted during this RCP (Renewal of crediting period). For continuous input or to record ongoing communication with local stakeholders a grievance register /49/ is available at the project site office of Greenko Sironj Wind Power Pvt Ltd. at Pudhiyamputhur Village of district Thoothukudi in Tamil Nadu state of India. It is permanently available to local stakeholders. It is correct as per the actual site scenario and complies with GS4GG Principles and Requirements; Version 1.2, dated: 23/10/2019 /5/, Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/, guidelines of template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.8 Global Stakeholder Consultation

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design

	Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/and remote audit.
Findings	No findings were raised.
Conclusion	The project activity is already registered in GS4GG. It is a retroactive project activity. PD had conducted a physical Stakeholder consultation meeting on 09/05/2018 in line with the GS4GG Principles and Requirements /5/. The stakeholders were the ones local people impacted by the project and local NGOs, International NGOs, GS representatives and local govt etc. Assessment team confirms that the stakeholder consultation mentioned in section E of Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ is correct as per the previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and fulfils the GS4GG principles and requirements /5/ and also complies with the guidelines of template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.9 Safeguarding Principle and Gender Sensitive Assessment

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01 dated: 04/01/2024, Version 02 dated 01/02/2024, Version 03 dated 01/03/2024, Version 04, dated 11/04/2024 and Final Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 30/12/2019 /3/ and remote audit.
Findings	CAR#02 was raised and closed successfully. For more details, please refer Appendix 3.

<table>
<tr>
<td>Conclusion</td>
<td>
PD has assessed Safeguarding principles in Appendix-1 of Key Project Information & Project Design Document (PDD); Version 05, dated 27/06/2024/1/ and the summary of safeguarding principles that be monitored is summaried as follows:
<table>
<tr><th>S. No.</th><th>Principles</th><th>Mitigation measures added to the monitoring plan</th></tr>
<tr><td>1.</td><td>Principle 6.1: Labor Rights</td><td>The Project Developer ensures the training of workers,
documentation and reporting of accidents and incidents, and emergency preparedness and response measures.</td></tr>
<tr><td>2.</td><td>Principle 9.5 Hazardous and Non-hazardous Waste</td><td>The waste is disposed to the waste handlers and the firm complies with all the local laws for monitoring and disposal.</td></tr>
<tr><td>3.</td><td>Principle 9.10 High conservation value areas and critical habitats</td><td>Since this is wind power plant, birds may strike into the spinning blades of WTGs while flying. PD has applied contrast painting to the rotor blades which significantly reduced the collision risk. The appointed personnel of O&M team maintain a Bird strike register.
During the siting activity, it was ensured that there are no water bodies beside WTGs, also water pits are not allowed around the WTGs and none of the area of WTGs erection or transmission lines are under sensitive or under areas of conservation importance.</td></tr>
</table>
</td>
</tr>
</table>

5 INTERNAL QUALITY CONTROL

The final validation report has undergone a technical review and quality review before being submitted to the project participant(s)/coordinating managing entity and GS4GG registry. Technical reviewer is qualified in accordance with VKU Certification Private Limited., qualification scheme for GS4GG validation and verification performed the technical review.

6 VALIDATION OPINION

VKU Certification Pvt. Ltd. is contracted by Greenko Sirionj Wind Power Pvt. Ltd. for validation (RCP) of the project activity **"200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290)** for 2nd crediting period from 07/03/2024 to 06/03/2029 (Inclusive of both dates).

The validation was performed following requirements and guidelines defined by Gold Standard for the Global Goals and UNFCCC criteria, Clean Development Mechanism (CDM), latest version of Validation and Verification Standard and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The project will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the final Key Project Information and Project Design document (PDD)/1/. In the opinion of the validation team, the project meets all relevant GS4GG, UNFCCC, CDM criteria and all relevant host country.

The review of the final Key Project Information and Project Design document (PDD)/1/ and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline. The PDD correctly applies the valid version of the methodology ACM0002: Grid Connected Electricity Generation from Renewable Sources; Version 21.0 /18/ and meets all relevant criteria therein. The monitoring arrangements described in the monitoring plan are feasible within the project, and it is validation team's opinion that the project developer is able to implement the monitoring plan and it is deemed likely that the forecasted emission reductions of 594,764 tCO_2e per year from the project during the second crediting period will be achieved, given that the underlying assumptions do not change.

During the course of validation total of 11 findings were raised, which includes: 04 Corrective Action Requests (CARs); 06 Clarification Requests (CLs) and 01 Forword Action Request (FAR). All the findings were successfully resolved by the PD except FAR#01. FAR#01 is related with the VVB who will perform 1st verification of this project activity.

In summary, it is validation team's opinion that the project activity **"200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290)** meets all relevant GS4GG and UNFCCC requirements for the renewal of the crediting period. Hence, VKU Certification Pvt. Ltd. recommends the renewal of the the second crediting period from 07/03/2024 to 06/03/2029 (Inclusive of both dates).

7 MATERIALITY AND LEVEL OF ASSUMPTION APPLIED

7.1 Materiality

As per the ISO 14063-3:2019 /23/, VKU validation team has applied materiality thresholds for the purpose to reach at the conclusion on the GHG statement about the estimated SDG Impacts due to the project activity "200 MW Wind Power Project in Tamil Nadu by Orange Sironj" (GS 6290). Hence, to assess the baseline scenario and estimation, validation team has applied the qualitative materiality over the assumptions and information presented in the final Key Project Information and Project Design document (PDD) /1/.

7.2 Level of Assumption

All the revisions in the validation report before being submitted to the client were subject to an independent internal technical review to confirm that all validation activities had been completed according to the pertinent VKU's internal procedure and with a **"Reasonable Level of Assumption"** as per the ISO Standard 14064-2 and ISO 14064-3 /23/.

APPENDIX 1: ABBREVIATIONS

Abbreviations	Full texts
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO_2	Carbon Dioxide
CO_{2e}	Carbon Dioxide equivalent
CME	Co-ordinating/ Managing Entity
EB	Executive Body
EF	Emission Factor
FAR	Forward Action Request
FVR	Final Verification Request
GS	Gold Standard
GS4GG	Gold Standard for Global Goals
GHG	Greenhouse Gas
PD	Project Developer
QC/QA	Quality Control/Quality Assurance
SDG	Sustainable Development Goal
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VER	Verified Emission Reductions
VVB	Validation and Verification Body
VVS	Validation and Verification Standard
N/A	Not Applicable
RCP	Renewal of crediting Period
PDD	Project Design Document
WTG	Wind turbine Generator
COD	Date of commissioning
ER	Emission Reduction
VVB	Validation Verification Body
SECI	Solar Energy Corporation of India Limited
CEA	Central Electricity Authority
PPA	Power Purchase Agreement
ODA	Official Development Assistance

APPENDIX 2: COMPETENCY STATEMENT

Team Leader cum Technical Expert:

Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Vivek Kumar Ahirwar
Nationality	Indian
Countries of Experience	India, Madagascar, Thailand, Nepal, South Africa, Vietnam, Mozambique, Kenya, Ethiopia, Spain, Singapore, Zimbabwe, Columbia, Zambia, Libya, Indonesia, Myanmar
Education Qualification	B.E.(Mechanical) M.Tech.(Energy Management)
Year of Experience	15 Years +
Area of Expertise	Climate Change & Environment & Industry
Eligible Sectoral Scope	TA 1.1 Thermal Energy & Biomass TA 1.2 Renewables/Non-renewables TA 2.1 Energy Distribution TA 3.1 Energy Demand 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 (TA 1.1, 1.2, 2.1, 3.1, 13.1)	YES
Financial Expert	YES

Reviewed by	Apoorva Gupta (Quality Manager)	Date	11/10/2023
Approved by	Barun Kumar (Technical Manager)	Date	11/10/2023

Technical Reviewer cum Technical Expert:

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 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

Project Trainee – Anand Kumar:

Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Anand Kumar
Nationality	Indian
Countries of Experience	India
Education Qualification	M.Sc. (Environmental Science) B.Sc. (Chemistry Hons.)
Year of Experience	Fresher (Done 3 months Internship in VKU)
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	31/03/2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	31/03/2023

APPENDIX 3: RESOLUTION OF FINDINGS

<table>
<tr><td>Type</td><td>Date</td><td>22-January-2024</td></tr>
<tr><td>CAR#01</td><td>Reference</td><td>KPI, Section A and B</td></tr>
<tr><td colspan="3">Description of the Non-Conformance</td></tr>
<tr><td colspan="3">1. Key Project Information
1.1. The footnote 1 inserted for ‘Methodology (ies) applied and version number’ is non-functional.
2. Section A
2.1. Font colour is found inconsistent in many of the sections throughout the PDD.
3. Section B.2
3.1. Applicability Criterion of ‘Tool 1: Tool for the demonstration and assessment of additionality- Version 07.0.0 (EB 70, Annex 08)’ is not found in Section B.2 as stated in this section.
4. Section B.4
4.1. It is found that Version 18.0 of the CEA electricity database is no longer the latest version of the database.</td></tr>
<tr><td>1st Response from PP</td><td>Date</td><td>01- February -2024</td></tr>
<tr><td colspan="3">1. In key project information:
1.1 The footnote for ‘Methodology (ies) applied and version number’ has now been revised and now in working condition.
2. In section A:
2.1 The font colour has been made consistent throughout the revised PDD.
3. In section B.2:
3.1 The applicability of ‘Tool 1: Tool for the demonstration and assessment of additionality- Version 07.0.0 (EB 70, Annex 08)’ has been demonstrated in section B.5 and the same has been revised and mentioned.
4. In section B.4:
4.1 The CEA database has been revised to the latest version 19.0 of the database.</td></tr>
</table>

1st Assessment by Audit Team	Status	Closed	Date	12-February-2024
1. Key Project Information 1.1. It is confirmed that the footnote is now functional and correct in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. **2. Section A** 2.1. It is confirmed that the font colour is now updated in the revised PDD, Version 02, dated 01/02/2024, hence, accepted. **3. Section B.2** 3.1. It is confirmed that the applicability of 'Tool 1: Tool for the demonstration and assessment of additionality- Version 07.0.0 (EB 70, Annex 08)' has been demonstrated in section B.5 of revised PDD, Version 02, dated 01/02/2024, hence, accepted. **4. Section B.4** 4.1. It is confirmed that the values are mentioned as per the latest CEA database, Version 19.0 in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. Hence CAR#01 is **CLOSED**.				

Type	Date	22-January-2024
CAR#02	**Reference**	Section B, D and Appendix 1
Description of the Non-Conformance		
1. Section B.5 1.1. The values of IRR and benchmark neither match with the ER sheet submitted nor with the registered PDD; Version 04, dated 07-August-2019. **2. Section D.1** 2.1. As per the PDD template guideline; Version 1.4, dated 21-June-2023, table in section D.1 is a summary of the Assessment available in Appendix 1 to clearly show which		

<table>
<tr><td colspan="5">aspects form part of the Project monitoring plan, however assessment team did not find the two principles mentioned below in Appendix 1.

3. Appendix 1

3.1. Appendix 1 is incomplete with as per the template guidelines; Version 1.4 dated 21-June-2023</td></tr>
<tr><td colspan="3">1st Response from PP</td><td>Date</td><td>01- February -2024</td></tr>
<tr><td colspan="5">1. In section B.5:

1.1 The values of IRR and benchmark are made in line with the ER sheet submitted and with the registered PDD version 5.0 dated on 30/12/2019.

2. In section D.1:

2.1 Appendix 1 has been revised and now both section D.1 and appendix 1 in reference of the safeguarding principle has been made in line.

3. In appendix 1:

3.1 Appendix 1 has been revised as per the TEMPLATE GUIDE- v1.4 Project Design Document.</td></tr>
<tr><td>1st Assessment by Audit Team</td><td>Status</td><td>Closed</td><td>Date</td><td>12-February-2024</td></tr>
<tr><td colspan="5">Section B.5

It is confirmed that values of IRR and benchmark are now in line with the ER sheet submitted and with the registered PDD version 5.0 dated on 30/12/2019 in the updated PDD, Version 02, dated 01/02/2024, hence, accepted.

Section D.1

It is confirmed that Appendix 1 is now revised and section D.1 is updated accordingly in the revised PDD, Version 02, dated 01/02/2024, hence, accepted.

Appendix 1

It is confirmed that Appendix 1 has been revised as per the TEMPLATE GUIDE- v1.4 Project Design Document in the updated PDD, Version 02, dated 01/02/2024, hence, accepted.

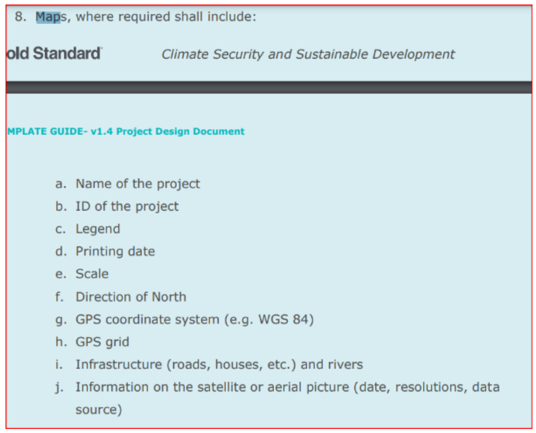
Hence CAR#02 is CLOSED.</td></tr>
</table>

<table>
<tr><td colspan="3">Type</td><td>Date</td><td>22-January-2024</td></tr>
<tr><td colspan="3">CAR#03</td><td>Reference</td><td>ER sheet</td></tr>
<tr><td colspan="5">Description of the Non-Conformance</td></tr>
<tr><td colspan="5">The following points of ER Sheet require corrections:
1. Version 18.0 is no longer the latest version of the CEA Electricity database.
2. The value of emission factor is no longer as per the latest version of CEA Electricity database.</td></tr>
<tr><td colspan="3">1st Response from PP</td><td>Date</td><td>01- February -2024</td></tr>
<tr><td colspan="5">The following corrections has been made in the revised ER sheet:
1. The CEA database has been updated to the latest available version 19.0.
2. The value of emission factor has been updated as per the latest CEA Electricity Database.
Hence CAR#03 is CLOSED.</td></tr>
<tr><td>1st Assessment by Audit Team</td><td>Status</td><td>Closed</td><td>Date</td><td>12-February-2024</td></tr>
<tr><td colspan="5">1. It is confirmed that the reference of CEA database has been updated to the latest available version 19.0, hence, accepted.
2. It is confirmed that the value of emission factor has been updated as per the latest CEA Electricity Database, version 19.0, hence, accepted.
Hence CAR#03 is CLOSED.</td></tr>
</table>

<table>
<tr><td>Type</td><td>Date</td><td>26-February-2024</td></tr>
<tr><td>CAR#04</td><td>Reference</td><td>Section A</td></tr>
<tr><td colspan="3">Description of the Non-Conformance</td></tr>
<tr><td colspan="3">1. Section A.1
1.1. “The project activity targets reduction of CO2e as main GHG greenhouse gas in baseline, there are no GHG emission associated with project activity” this statement contradicts itself.
2. Section A.1.1</td></tr>
</table>

2.1. The reference of the declaration “Project is not registered in any other mechanism. Also, self-declaration for no double counting has been provided by the PD” is not found in the PDD.

3. **Section A.2**
   3.1. The coordinates of the WTGs GPV-555, GPV- 730, GPV- 321, GPV- 061 and GPV-161, are not pointing to any WTGs on Google Earth Pro.
   3.2. The map does not follow the guidelines mentioned in the PDD template guideline to fill PDD document.

1) 

8. Maps, where required shall include:

old Standard *Climate Security and Sustainable Development*

MPLATE GUIDE- v1.4 Project Design Document

a. Name of the project
b. ID of the project
c. Legend
d. Printing date
e. Scale
f. Direction of North
g. GPS coordinate system (e.g. WGS 84)
h. GPS grid
i. Infrastructure (roads, houses, etc.) and rivers
j. Information on the satellite or aerial picture (date, resolutions, data source)

4. **Section A.3**
   4.1. Location, number of transformers, make/manufacturer and voltage transformation that is made by the transformers used in the project activity are not mentioned in the PDD

1st Response from PP	**Date**	01-March-2024

1. **Section A.1**
   1.1 The statement is revised.

   2)

2. **Section A.1.1**

3) **2.1** The declaration is submitted with the responses.

3. **Section A.2**
   3.1 The coordinates of the WTGs GPV-555, GPV- 730, GPV- 321, GPV- 061 and GPV- 161 is showing the location just near the WTGs so it has been updated as per actual exact location.
   3.2 Location map is updated as per TEMPLATE GUIDE- v1.4 Project Design Document.
4. **Section A.3**

4) **4.1** The technical details for all the transformers are updated.

1st Assessment by Audit Team	**Status**	Closed	**Date**	03-March-2024

1. Section A.1 1.1. It is confirmed that the PD has revised the statement in the updated PDD; Version 03 dated 01/03/2024 and it is correct, hence, accepted. **2. Section A.1.1** 2.1. It is confirmed that the PD has revised the statement in the updated PDD; Version 03 dated 01/03/2024 and submitted the declaration of no double counting and it is correct, hence, accepted. **3. Section A.2** 3.1. It is confirmed that the all the coordinates have been corrected in the updated PDD; Version 03 dated 01/03/2024 and it is correct, hence, accepted. 3.2. It is confirmed that the PD has revised the map as per the template guideline in the updated PDD; Version 03 dated 01/03/2024 and it is correct, hence, accepted. **4. Section A.3** 4.1. It is confirmed that the PD has included all the details in the updated PDD; Version 03 dated 01/03/2024 and it is correct as per the actual scenario, hence, accepted. Hence, CAR#04 is **CLOSED.**

Type	**Date**	22-January-2024
CL#01	**Reference**	KPI, Section A, B, C, D and E
Description of the Non-Conformance		
PD needs to provide the following supporting documents: 1. Supporting document for ‘Time of First Submission Date’ as well as ‘Date of Design Certification’ 2. Supporting document for job opportunities (permanent and temporary) created to local people during erection, commissioning and maintenance of this project. 3. Self-declaration for no double counting 4. GS4GG Cover Letter 5. ODA declaration 6. Transitioning document from Gold Standard to GS4GG 7. Supporting document for project cost and O&M cost analysis		

8. Plant register maintaining employee details as well as attendance register. 9. Records of accidents and incidents, emergency preparedness and response measures. 10. Records which document manufacture, trade, release and use of hazardous and non-hazardous chemicals and/or materials. 11. EPC document/start date for the project activity 12. Policy document which is aligned with 'Convention on the Elimination of All Forms of Discrimination against Women' 13. Stakeholder Consultation report 14. Grievance register		
1st Response from PP	**Date**	01- February -2024
The following documents has been provided: 1. Supporting document for 'Time of First Submission Date' as well as 'Date of Design Certification' 2. Supporting document for job opportunities (permanent and temporary) created to local people during erection, commissioning and maintenance of this project. 3. Self-declaration for no double counting. 4. GS4GG Cover Letter 5. ODA declaration 6. The project is only registered in GS4GG there is no transitioning hence transitioning document is not available. 7. Supporting document for project cost and O&M cost analysis 8. Plant register maintaining employee details as well as attendance register. 9. Records of accidents and incidents, emergency preparedness and response measures. 10. Records which document manufacture, trade, release and use of hazardous and non-hazardous chemicals and/or materials. 11. EPC document/start date for the project activity 12. Policy document which is aligned with 'Convention on the Elimination of All Forms of Discrimination against Women'		

13. The project activity is registered in GS4GG. PD had conducted the Stakeholder consultation physical meeting in line with the GS4GG requirements and guidelines. The local stakeholder consultation meeting was applicable as the project is retroactive registration project. Please refer registered PDD for Stakeholder Consultation details. 14. Grievance register				
1st Assessment by Audit Team	**Status**	Closed	**Date**	12-February-2024
1. It is confirmed that PD has submitted screen snap for "Time of First Submission Date' and Design and Performance Review under Gold Standard for the Global Goals for Date of Design Certification, hence accepted. 2. It is confirmed that PD has submitted Employment record and attendance sheet, hence accepted. 3. It is confirmed that PD has submitted Self-declaration for no double counting, hence accepted. 4. It is confirmed that PD has submitted GS4GG Cover Letter, hence accepted. 5. It is confirmed that PD has submitted ODA declaration, hence accepted. 6. It is confirmed that PD has revised the statement, hence accepted. 7. It is confirmed that PD has submitted supporting document for project cost and O&M cost analysis, hence accepted. 8. It is confirmed that PD has submitted attendance sheet as employee details, hence accepted. 9. It is confirmed that PD has submitted Record of accidents and incidents, emergency preparedness and response measures, hence accepted. 10. It is confirmed that PD has submitted record of Hazardous waste, hence, accepted. 11. It is confirmed that PD has submitted EPC document for the project activity, hence accepted. hence accepted. 12. It is confirmed that PD has submitted no discrimination Policy document, hence, accepted. 13. It is confirmed that the clarification provided by PD is correct, hence, accepted. 14. It is confirmed that PD has submitted grievance register, hence, accepted. Hence, CL#01 is **CLOSED.**				

<table>
<tr><td>Type</td><td>Date</td><td>22-January-2024</td></tr>
<tr><td>CL#02</td><td>Reference</td><td>KPI, Section A</td></tr>
<tr><td colspan="3">Description of the Non-Conformance</td></tr>
<tr><td colspan="3">
1. Key Project Information
1.1. Clarify the engagement of Greenko sironj Wind Power Pvt. Ltd. with this project activity and provide the supporting document for the same.
2. Section A
2.1. Clarify whether PD is yet to obtain ‘approvals to comply with legal, environmental, ecological and social regulations’ and provide supporting documents for the same, if available.
2.2. Clarify, how ‘section A.4: Scale of the Project is applicable’ for location of the project.
2.3. During desk review it is found that PPA is effective from 19-December-2017 while the date of PPA on invoices is mentioned as 19-December-2018. Clarify the existence of two dates of PPA
2.4. During desk review it is found that the legal owner is Orange Sironj Wind Power Pvt Ltd. as mentioned in the commissioning certificate and PPA while it is observed that from July 2022 onwards Greenko Sironj Wind Power Pvt Ltd. has raised the invoices to SECI instead of Orange Sironj Wind Power Pvt Ltd. Clarify the legal rights.
2.5. Clarify whether the average lifetime of the WTGs is still 20 years.
2.6. Clarify whether power evacuation is carried out by Indian Grid or by SECI
</td></tr>
<tr><td>1st Response from PP</td><td>Date</td><td>01- February -2024</td></tr>
<tr><td colspan="3">
1. In Key Project Information:
1.1 Orange Group is now Greenko Group and Greenko Sironj Wind Power Pvt Ltd is the project investor for this project activity and the supporting for the same has been provided with responses.
2. In section A:
2.1 The project activity has obtained all the authorities’ approvals to comply with legal, environmental, ecological and social regulations before begin the
</td></tr>
</table>

implementation. The supporting documents regarding the same is submitted with the responses. 2.2 It was typographical mistake now It has been revised to section A.2 as this section is related to the location of project. 2.3 The date of PPD is 19-December-2017.By mistake the year was mentioned wrong in the invoices but now onwards all the future invoices will be updated as per PPA date only i.e. on 19-December-2017. 2.4 Orange Sironj Wind Power Pvt Ltd is now Greenko Sironj Wind Power Pvt Ltd and the supporting for the same has been provided with responses. 2.5 The average lifetime of the WTGs does not change and is still 20 years from commissioning the same is also updated in PDD. 2.6 The power evacuation is carried out by Indian Grid the same is updated in PDD.				
1st Assessment by Audit Team	**Status**	Closed	**Date**	12-February-2024
1. Key Project Information 1.1. It is confirmed that the name of Orange Sironj is now changed to Greenko Sironj as per the 'Certificate of Incorporation pursuant to change of name' submitted by PD, hence, accepted. **2. Section A** 2.1. It is confirmed that PD has submitted 'Environmental and Social Impact Assessment' for this project activity, hence, accepted. 2.2. It is confirmed that PD has revised the statement in the updated PDD, Version 02, dated 01/02/2024, hence, accepted., hence, accepted. 2.3. It is confirmed that it was typographical error in the invoices, a declaration has been submitted by PD for the same, hence, accepted. 2.4. It is confirmed that the name of Orange Sironj is now changed to Greenko Sironj as per the 'Certificate of Incorporation pursuant to change of name' submitted by PD, hence, accepted. 2.5. It is confirmed that the clarification provided by the PD is correct and it is revised in the updated PDD, Version 02, dated 01/02/2024, hence, accepted.				

2.6. It is confirmed that the PD has revised the statement in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. Hence, CL#02 is **CLOSED.**

Type	**Date**	22-January-2024
CL#03	**Reference**	Section B, C and E s
Description of the Non-Conformance		
1. Section B.7 1.1. Is there any meter other than the main meter being used as export meter? 1.2. Clarify the presence of main, check and standby meter at the inter-connection point at the project site as these meters are not shown in the diagram presented in section B.3: Project Boundary. Submit the meter details as well. **2. Section C.1** 2.1. As per the registered previous PDD; Version 04, dated 07/08/2019 the expected operational lifetime of the project was 20 years. Is the expected operational lifetime of the project still 20 years? **3. Section E** 1. Clarify whether grievance register is placed in all these villages or at project site office only.		
1st Response from PP	**Date**	01- February -2024
1. In section B.7: 1.1. No export meter and main meter is same now the export meter is updated with main meter in PDD. 1.2. There are 3 meters main, check and standby. The main and check meters are located at government substation and the standby meter is located at plant substation accordingly the project boundary diagram is updated in section B.3 of PDD. The details of the meters are provided in appendix 5 and the meter calibration certificates are submitted with the responses.		

2. In section C.1: 2.1. As per the registered PDD version 05 dated on 30/12/2019 the expected operational lifetime of the project is 20 years from commissioning of the project. **3. Section E:** 3.1. The grievance register is placed at site office location the same is updated in PDD.				
1st Assessment by Audit Team	**Status**	Closed	**Date**	12-February-2024
1. Section B.7 1.1. It is confirmed that PD has updated the statement in the revised PDD, Version 02, dated 01/02/2024, hence, accepted. 1.2. It is confirmed that PD has revised the statement as per the actual scenario in the revised PDD, Version 02, dated 01/02/2024, hence, accepted. **2. Section C.1** 2.1. It is confirmed that the clarification provided by the PD is correct and it is revised in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. **3. Section E** 3.1. It is confirmed that the clarification provided by the PD is correct and it is revised in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. Hence CL#03 is **CLOSED**.				

Type	**Date**	22-January-2024
CL#04	**Reference**	ER Sheet
Description of the Non-Conformance		
The following point of ER Sheet require clarification: 2. Clarify why the values in the both the column F and H are different while both the columns are entitled as 'Estimated project emissions or removals (tCO2e)'		

1stResponse from PP			**Date**	01- February -2024
1. Column F is Estimated project emissions (tCO2e) and column H is the estimated emission reduction (tCO2e) and the same has been revised.				
1stAssessment by Audit Team	**Status**	Closed	**Date**	12-February-2024
1. It is confirmed that the title of the column is revised in the updated ER Sheet, Version 02, dated 01/02/2024, hence, accepted. Hence CL#04 is **CLOSED**.				

Type	**Date**	22-January-2024
CL#05	**Reference**	Remote Audit
Description of the Non-Conformance		
The following observations of assessment team during remote audit require clarification: 1. It is found that Main meter and Check meter are installed at GSS end while standby meter is at PSS end while there are 2 main meter and Check meter are shown in the diagram presented in section B.3: Project boundary. 2. Neither the complete details of meters at GSS end as well as PSS end are presented in the PDD nor calibration details of all the meters are submitted to VVB. **3.** A Standby meter is found at PSS end while it is not shown in the diagram presented in section B.3: Project boundary.		
1stResponse from PP	**Date**	01- February -2024
1. The main and check meters are installed at GSS and standby meter is located at PSS the line diagram is updated as per actual case in section B.3: Project boundary of PDD. 2. The meters details are updated and the calibration details are incorporated in Appendix 5 of PDD and calibration certificates are submitted with the responses. 3. The main and check meters are installed at GSS and standby meter is located at PSS the line diagram is updated as per actual case in section B.3: Project boundary of PDD.		

1st Assessment by Audit Team	Status	Closed	Date	12-February-2024
It is confirmed that the line diagram is now revised as per the actual site scenario in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. It is confirmed that complete meter details are now incorporated in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. It is confirmed that the line diagram is now revised as per the actual site scenario in the updated PDD, Version 02, dated 01/02/2024, hence, accepted. Hence CL#05 is **CLOSED**.				

Type		Date	26-February-2024
CL#06		**Reference**	Section A, B and D
Description of the Non-Conformance			
1. Section A.1.1 1.1. Clarify, how it is demonstrated that this project activity is not registered with any other voluntary or compliance schemes. **2. Section A.1.2** 2.1. Clarify, what legal instrument is held by Greenko Sironj with regards to demonstrating ownership of carbon credits generated from the project activity. **3. Section B.3** 3.1. In the SLD it is not clear regarding the plant boundary and location of the meters ie., within plant or project boundary. **4. Section B.5.2** 4.1. Provide the supporting documents to substantiate the claim that the assumptions made at the time of decision making is still relevant. **5. Section B.6.4** 5.1. Clarify, why Degradation factor is not used for conservative estimate of ER.			

6. Section B.7.1

6.1. Clarify, how are packaging wastes disposed of (eg plastic wastes in spares that are replaced as part of routine maintenance)

7. Section B.7.3

7.1. In rare events due to manmade or natural calamities the GSS is damaged or destroyed along with the monitoring equipment, Clarify, how is the energy generation measured at site or what procedures are applied? Also, if there is delay in calibration of the meters, what procedures are applied for the critical situation.

8. Section D.1

8.1. Clarify, how the requirements are fulfilled as per SFG principles document.

1st Response from PP	Date	01-March-2024

1. Section A.1.1

a. The declaration for no double counting has been provided by the PD. The project activity is not registered with any other voluntary or compliance schemes and the same can be confirm from all the registries.

2. Section A.1.2

2.1 As per submitted GS4GG cover latter it is demonstrated that Orange Sironj Wind Power Pvt Ltd. is owner of the project also COI is submitted with the responses to demonstrate the name change of company.

3. Section B.3

a. Main and check meters are located at GSS end and standby meter is located at PSS and the same thing is demonstrated in the line diagram. All 3 meters are located within the project boundary. Accordingly, the project boundary diagram is updated.

4. Section B.5.2

4.1 O&M agreement is submitted with the responses to verify the same.

5. Section B.6.4

5.1 This is wind power project and WTGs are performing same over the lifetime hence Degradation factor is not used.

6. Section B.7.1

6.1 The spare parts are replaced by O&M entity so O&M entity will replace the parts and handle the packaging wastes also. The O&M entity is collect the packaging wastes and disposed-off as per compliance of local ULB. **7. Section B.7.3** **7.1** In the event that the Main meter is not in service as a result of maintenance, repairs or testing, the Check meter will be used for readings and in the event that the Main meter and check meter both are not in service as a result of maintenance, repairs or testing, the Standby meter will be used for readings. The electricity export for baseline emissions and electricity import for project emission calculations, is required to be calibrated as per calibration frequency. If the calibration is delayed the error factor will be applied as per accuracy class of energy meter for delayed period at the time of verification. **8. Section D.1** **8.1** Safeguarding Principles mitigation measures added to the monitoring plan is updated as per requirement of Safeguarding Principles & Requirements version 2.1				
1st Assessment by Audit Team	**Status**	Closed	**Date**	03-March-2024
1. Section A.1.1 1.1. It is confirmed that PD has submitted the declaration for no double counting and assessment team has cross-checked several registries to confirm the same and it is found correct, hence, accepted. **2. Section A.1.2** 2.1. It is confirmed that PD has submitted GS4GG cover letter which confirms that Orange sironj Wind Power Pvt. Ltd. possess the rights of credits, however, the name of Orange sironj Wind Power Pvt. Ltd. is now changed to Greenko Sironj Wind Power Pvt. Ltd. as per the COI submitted by PD. Hence, Greenko Sironj Wind Power Pvt. Ltd. is the owner of credits, hence, accepted. **3. Section B.3** 3.1. It is confirmed that the PD has updated the SLD and the clarification provided is correct, hence, accepted. **4. Section B.5.2** 4.1. It is confirmed that the PD has submitted the O & M agreement and the assumptions made are correct as per the O & M agreement, hence, accepted. **5. Section B.6.4**				

5.1. It is confirmed that the clarification provided by PD is correct, hence, accepted. **6. Section B.7.1** 6.1. It is confirmed that the clarification provided by PD is correct, hence, accepted. **7. Section B.7.3** 7.1. It is confirmed that the clarification provided by PD is correct and the same is also included in the updated PDD; Version 03 dated 01/03/2024, hence, accepted. **8. Section D.1** 8.1. It is confirmed that the Safeguarding Principles mitigation measures have been added by PD in the updated PDD; Version 03 dated 01/03/2024 and it is correct, hence, accepted. Hence, CL#06 is **CLOSED.**

<table>
<tr><td colspan="3">Type</td><td>Date</td><td>15-May-2024</td></tr>
<tr><td colspan="3">FAR#01</td><td>Reference</td><td>Design Renewal Review</td></tr>
<tr><td colspan="5">Description of the Non-Conformance</td></tr>
<tr><td colspan="5">Refer Site Visit and Remote Audit Requirements v.02 §3.2.2 “A physical site visit by VVB is mandatory at the first verification of a project” within 2 years after design renewal certification.</td></tr>
<tr><td colspan="3">1st Response from PP</td><td>Date</td><td>DD-MM-YYYY</td></tr>
<tr><td colspan="5">N/A</td></tr>
<tr><td>1st Assessment by Audit Team</td><td>Status</td><td>Open</td><td>Date</td><td>DD-MM-YYYY</td></tr>
<tr><td colspan="5">N/A</td></tr>
</table>

HISTORY OF THE DOCUMENT

Version	Date	Amendment Summary*	Prepared By	Approved By
3.1	21.05.2024	Signature section added for Approver and Authorized signatory	Apoorva Gupta	Dr. Vikas Kumar Aharwal
3.0	01.12.2023	Changes done in all the sections as per the requirements of GS	Apoorva Gupta	Dr. Vikas Kumar Aharwal
2.1	22/07/2021	NA	Ayushi Garg	Vikas Aharwal
2.0	29/03/2021	NA	Ayushi Garg	Dr. Vikas Kumar Aharwal
1.0	23/09/2020	NA	Ayushi Garg	Dr. Vikas Kumar Aharwal

*Amendment Summary adopted in VKU System on 12.10.2022