



VALIDATION REPORT TITLE

Project Title	2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India
GS ID of Project	5928
Version of the Validation Report	03
Completion date of the Validation Report	31/12/2024
Date of Design Certification	01/08/2018
Version number of the corresponding Design Certification	NA
Project Representative	Infinite Environmental Solutions limited
Project Developer	Greenko Suvaan Energy Private Limited
Project Participants and any communities involved	NA
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 22.0
Product Requirements applied	GHG Emission Reduction & Sequestration
Project Cycle	Retroactive
Other Requirements applied	NA

VKU Project ID	VKU.VAL.16.24_GS_5928
Prepared By	VKU Certification Private Limited
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A. OBJECTIVE

Infinite Environmental Solutions Limited (Project Representative) and Greenko Suvaan Energy Private Limited (Project Developer) has contracted VKU Certification Private Limited to conduct validation and certification for renewal of crediting period for the GS4GG project activity (GS_5928) “**2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India**”.

The objective of this validation (RCP) is to have an independent third-party assessment of the GS4GG PDD and compliance with the GS requirements /6//7//8//9//10//11//12//13//14//15//16//17/ as described in the Gold Standard documentation and supporting documents provided by the project representative /26//27//28//29//30//31//32//33//34//35//36//37//38//39/. The Project Activity (GS_5928) is applying for validation certification of renewable of crediting period under GS4GG programme requirement and it is seen as necessary to provide assurance about:

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

The Project Activity is to generate electrical energy through sustainable means using solar power resources, the generated green electricity contributes to climate change mitigation efforts. This project activity is a large -scale solar project and requirements of the applied methodology “ACM0002 “Grid-connected electricity generation from renewable sources” Version 22.0 /19/. The project will replace anthropogenic emissions of greenhouse gases (GHG’s) estimated to be approximately 185,309 tCO_{2e} per annum during over the crediting period, thereon displacing 198,149.59 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.

B. SCOPE AND CRITERIA OF THE VALIDATION

The validation scope is defined as the independent and objective review of the Key project information & project design document PDD /1/, monitoring plan and other relevant supporting document which is mentioned section 3.1 of this report. The information in these documents is reviewed against all applicable GS requirements including the baseline and monitoring methodology ACM0002 “Grid-connected electricity generation from renewable sources” Version 22.0/19/.

The documents /1/ /2/ /3/ /4/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/ /39/ has submitted to the VKU Assessment team by project representative were reviewed against the following standards, methodology, tools and guidelines:

- GS4GG Principles and Requirements; Version 1.2, dated: 23/10/2019 /6/
- Validation and verification standard; Version 1.0, dated: 06/03/2023 /10/
- CDM Validation and Verification standard for project activities; Version 3.0 /18/
- Renewable energy activity requirements; Version 1.4, dated: 16/08/2021 /14/
- GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /15/
- Safeguarding principles & requirements; Version 2.1, dated: 29/06/2023 /8/
- Stakeholder consultation and engagement requirements; Version 2.1, dated: 14/06/2022 /7/
- Design change requirements; Version 1.1, dated: 14/04/2023 /9/
- Site visit and remote audit requirements and procedures; Version 2.0, dated: 30/05/2023 /10/
- Applicability of minimum site visit requirement by VVB; Version 2.0, dated: 16/08/2021 /12/
- Validation & verification body requirements; Version 2.0, dated: 14/01/2021 /13/
- Template Guide: Key Project Information & Project Design Document (PDD) Version 1.5, dated 29/06/2023 /17/
- Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /16/
- ACM0002 “Grid-connected electricity generation from renewable sources” Version 22.0/19/
- Tool 1: Tool for the demonstration and assessment of additionality Version 07.0.0 /20/
- Tool 7: Tool to calculate the emission factor for an electricity system Version 07.0.0 /21/
- 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 /22/

- CDM – CO₂ Baseline Database (CO₂ Baseline Database for Indian Power Sector); Version 19.0 /23/
- VKU QMS Procedures and SOPs – Internal procedural documents of VKU Certification Pvt. Ltd. /25/

Based on the recommendations in the GS4GG Validation and Verification Standard for Project Activities, Version 1.0/10/ the validation team has employed a rule-based approach, focusing on the identification of significant risks for monitoring plan and the generation of GS-VERs.

The validation is not means to provide any consulting to the project developer and project representative/coordinating managing entity. However, stated requests for clarifications and 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 determines if the Project Activity complies with the requirements of GS4GG validation and verification standard v1.0/10/, GS4GG principle and requirements v1.2/6/, the applicability conditions of the selected methodology /19/, guidance issued by the Gold Standard and also assess 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 developer.

C. VALIDATION METHODOLOGY AND PROCESS

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

1. The desk review of initial documents and evidence submitted by the project representative 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 and documentation process with the project representatives, Project developer, site personal 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
6. The resolution of outstanding issues and the issuance of the final validation report and opinion.

The report is based on the assessment of the final GS4GG Key Project Information & Project Design Document (PDD) /1/, ER Sheet/2/, 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 methodology and their underlying formulae and calculations.

This report contains the findings in term of CARs, CLs or FARs and resolutions from the validation and a validation opinion on the implemented Project Activity thus confirming the monitoring plan is sound and reasonable and meets the stated GS4GG requirements, host country criteria and correctly applied the GS approved methodology /19/ and tools /20/ /21/ /22/.

D. VALIDATION CONCLUSION

VKU Certification Pvt. Ltd. has successfully completed the validation process for the GS Project Activity, namely the "**2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India**" (GS_5928), as outlined in the Project Design Document (PDD) /01/ and supporting document /2/ /3/ /4/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/ /39. The validation confirms that the project adheres to all relevant GS requirements for Project Activities, also compliance with methodologies, tools, guidelines.

The monitoring methodology ACM0002 “Grid-connected electricity generation from renewable sources” Version 22.0 has been appropriately applied to the project activity for the whole crediting period (5 years) and is deemed applicable/19/.

The validation (RCP) process was conducted in accordance with ISO 14064-03:2019 and GS standards, along with host country criteria. Our approach is risk-based, drawing on an understanding of the risks associated with estimated GHG emissions data.

VVB has conducted remote site visit as per the Clause 3.1 of the "Site Visit and Remote Audit Requirements and Procedures" which stipulates that Remote audit can be conducted for this validation (RCP). Despite a comprehensive review of document of project activity, VVB has conducted remote site visit and stakeholder interviews. VKU has found that the Project Developer (PD) has provided sufficient evidence for draw a conclusion at the project's current stage. As a result, VKU Certification Pvt. Ltd. asserts the issuance of a positive opinion based on our thorough validation process.

- Start date of the project activity: 25/10/2016 (Start date of the project activity is the date on which the first purchase order was realised)
- **1st Crediting period:** 16/06/2017 to 15/06/2024 (Including first date and last date).
- **2nd Crediting Period:** From 16/06/2024 to 15/06/2029 (Including first date and last date).

Crediting Period Length: 05 Year

Validated estimated GHG emission reductions and carbon dioxide removals for the project crediting period:

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	188,298 tCO ₂ e	0 tCO ₂ e	188,298 tCO ₂ e
Year 2	186,791 tCO ₂ e	0 tCO ₂ e	186,791 tCO ₂ e
Year 3	185,297 tCO ₂ e	0 tCO ₂ e	185,297 tCO ₂ e
Year 4	183,815 tCO ₂ e	0 tCO ₂ e	183,815 tCO ₂ e
Year 5	182,344 tCO ₂ e	0 tCO ₂ e	182,344 tCO ₂ e
Total	926,545 tCO ₂ e	0 tCO ₂ e	926,545 tCO ₂ e
Annual Average over the crediting period	185,309 tCO ₂ e	0 tCO ₂ e	185,309 tCO ₂ e

Sustainable Development Goals Targeted	Most Relevant SDG Target	SDG Impact
13 Climate Action (mandatory)	Integrate climate change measures into national policies, strategies and planning	Emissions Reductions in tCO ₂
7 Ensure access to affordable, clean energy	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	MWh of renewable energy generated
8 Ensure to 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. Training 2. Employees 3. Income generation

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1 EXECUTIVE SUMMARY

Infinite Environmental Solutions Limited (Project representative) has appointed VVB, VKU Certification Pvt. Ltd., as the independent validator for the Gold Standard Project Activity titled the "**2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India** " (GS 5928) at Mhasale village in the district of Dhule, Maharashtra of India (referred to as the "Project Activity"). This report summarizes the findings of validation of the project, performed on the basis of Gold Standard criteria Gold standard for global goals (GS4GG), as well as criteria are given to provide for ensuring consistent project operations, monitoring, and reporting. The report includes validation outcomes, resolutions, and a validation opinion.

The implemented Project Activity focuses on reduce emission reduction use of solar resources for electricity generation which is connected to the Indian electricity grid, its objectives include reducing fossil fuels, promoting sustainable practices in the power sector, and contributes to overall greenhouse gas emissions reduction. This project activity is a large-scale solar project. The project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 185,309 tCO₂e per annum during over the crediting period, thereon displacing 198,149.59 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.

The Project Activity employs the ACM0002., version 22: Grid-connected electricity generation from renewable sources. This CDM methodology is also approved under the Gold Standard. The project activity is a 100 MW_{AC} solar power project, promoted by Greenko Suvaan Energy Private Limited and involves installation of 50 MW in Phase-I & 50 MW in Phase-II, totaling to 100 MW_{AC} solar power project. The project are installed in the same project boundary at Village: Mhasale, District: Dhule, State: Maharashtra, Country: India. The electricity generated from the project activity is evacuated through 220/132 kV sub- station located at Shivajinagar for consumption in the Indian Electricity Grid. The commissioning date of project activity for 100 MW (2*50 MW) Project is 16/06/2017.

Commissioning date with Geo-coordinate of Project Activity:

Commissioning Part	Commissioning Date	Project Investors' Name ¹	Plant capacity in AC	Plant capacity in DC	Latitude	Longitude

¹ Orange renewable Power Pvt Ltd was the investor of this project activity, but the name 'Orange renewable Power Pvt Ltd' is now changed to 'Greenko Suvaan Energy Private Limited.' from 08/03/2016 as per the Certificate of Incorporation pursuant to change of name, MINISTRY OF CORPORATE AFFAIRS, GOVERNMENT OF INDIA

100 MW	16/06/2017	Greenko Suvaan Energy Private Limited	100 MW	138 MW	21°05'46"N	74°26'27.6"E
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Emission reductions attributable to the Project Activity adhere to Gold Standard for global goals (GS4GG) requirements for additionality. These project emission reductions are considered additional to what would occur in the absence of the Project Activity. 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 04, dated 25/09/2024/1/ is as follows:

Sustainable Development Goals Targeted	SDG Impact	Estimated Annual Average	Unit or Products
SDG 13: Climate Action	Emission Reductions	185,309	GS-VERs
SDG 8: Decent Work and Economic Growth	Trainings	3	No. of Trainings/year
	Employee	25	No. of Jobs
	Income Generation	40	Mn. INR
SDG 7: Affordable and Clean Energy	MWh of renewable energy generated	198,149.59	MWh/Annum

Validation serves as a thorough and independent assessment of the Project Activity against Gold Standard and GS requirements, monitoring plans, and compliance with relevant criteria. It ensures that the monitoring plan is sound and reasonable and meets the stated GS4GG requirements. Validation (RCP) is a mandatory step for all Gold Standard Voluntary projects, providing assurance to stakeholders regarding the project's quality and its intended generation of voluntary emission reductions (GS-VERs).

The transition of the project has to be done from GS to GS4GG and same information assessment team confirm from Transition Request Form/40/ which is available on ASSUARANCE PLATFORM . For this,

Project representative has provided declaration for not participation and rejection in other GHG program/41/ Same information has been also checked from the CDM registry along with another registry. The project transitioned on 01/09/2021. The assessment team has reviewed the annual reports starting from 2021. The first annual reporting period covered the timeframe from 01/04/2021 to 31/12/2022, while the second reporting period spanned from 01/01/2023 to 31/12/2023. Both annual reports were submitted in the year 2023 and also uploaded in ASSUARANCE PLATFORM, which is compliance with Clause 5.1.39 of the Principles and Requirements, Version 1.2.

2 VALIDATION TEAM, TECHNICAL REVIEWER AND APPROVER

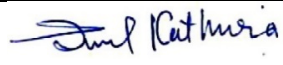
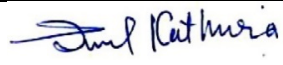
2.1 Validation team member

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 cum Validator/verifier	IR ² (Internal Resource)	Kumar	Barun	VKU Certification Private Limited	Y ³	Y	Y	Y
2.	Validator/Verifier-Trainee	IR (Internal Resource)	Chauhan	KM Nisha	VKU Certification Private Limited	Y	Y	N	N
3.	Project Trainee	IR (Internal Resource)	Modi	Megha	VKU Certification Private Limited	Y	Y	N	N

² ER: External resource, IR: Internal Resource

³ Y: yes, N: No

2.2 Technical Reviewer and Approver of the validation report

S.No.	Role	Type of Resource	Last Name	First Name	Affiliation (e.g., name of central or other office of DOE or outsourced entity)	Signature
1.	Technical Reviewer & Technical Expert	ER (External Resource)	Kathuria	Sunil	Outsourced Entity	
2.	Approver	ER (External Resource)	Kathuria	Sunil	Outsourced Entity	

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.	

3 MEANS OF VALIDATION

3.1 Desk/Document Review

List all documents reviewed or references during the validation are mentioned below:

Sl. No.	Author	Title	Reference	Provider
1	Infinite Environmental Solutions Limited	Key Project Information & Project Design Document (PDD)	Version 01, dated 03/06/2024 Version 02, dated 06/06/2024 Version 03, dated 11/06/2024 Version 04, dated 25/09/2024	Infinite Environmental Solutions Limited

2	Infinite Environmental Solutions Limited	ER Sheet	Version 01, dated 03/06/2024 Version 02, dated 25/09/2024	Infinite Environmental Solutions Limited
3	Infinite Environmental Solutions Limited	CDM Project Design Document (PDD)	Version 05, dated 25/10/2018	Available on GS website
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	Gold Standard for the Global Goals	GS Passport	Version 05, dated 25/08/2018	Available on GS website
6	GS4GG	<u>Principles and Requirements</u>	Version 1.2, dated: 23/10/2019	Publicly Available on GS4GG Webpage
7	GS4GG	<u>Stakeholder consultation and engagement requirements</u>	Version 2.1, dated: 14/06/2022	Publicly Available on GS4GG Webpage
8	GS4GG	<u>Safeguarding principles & requirements</u>	Version 2.1, dated: 29/06/2023	Publicly Available on GS4GG Webpage
9	GS4GG	<u>Design change requirements</u>	Version 1.1, dated: 14/04/2023	Publicly Available on GS4GG Webpage
10	GS4GG	<u>Validation and verification standard</u>	Version 1.0, dated: 06/03/2023	Publicly Available on GS4GG Webpage
11	GS4GG	<u>Site visit and remote audit requirements and procedures</u>	Version 2.0, dated: 30/05/2023	Publicly Available on

				GS4GG Webpage
12	GS4GG	<u>Applicability of minimum site visit requirement by VVB</u>	Version 2.0, dated: 16/08/2021	Publicly Available on GS4GG Webpage
13	GS4GG	<u>Validation & verification body requirements</u>	Version 2.0, dated: 14/01/2021	Publicly Available on GS4GG Webpage
14	GS4GG	<u>Renewable energy activity requirements</u>	Version 1.4, dated: 16/08/2021	Publicly Available on GS4GG Webpage
15	GS4GG	<u>GHG Emissions Reduction & Sequestration Product Requirements</u>	Version 2.2, dated: 28/08/2023	Publicly Available on GS4GG Webpage
16	GS4GG	<u>Gold standard eligible impact quantification methodologies</u>	Version 2.4, dated: 22/06/2023	Publicly Available on GS4GG Webpage
17	GS4GG	<u>Template Guide: Key Project Information & Project Design Document (PDD)</u>	Version 1.5, dated 29/06/2023	Publicly Available on GS4GG Webpage
18	CDM	<u>CDM Validation and Verification standard for project activities</u>	Version 3.0	Publicly Available on CDM Webpage
19	CDM	<u>ACM0002:Grid-connected electricity generation from renewable sources</u>	Version 22.0	Publicly Available on CDM Webpage
20	CDM	<u>Tool 1: Tool for the demonstration and assessment of additionality</u>	Version 07.0.0	Publicly Available on CDM Webpage

21	CDM	<u>Tool 7: Tool to calculate the emission factor for an electricity system</u>	Version 07.0.0	Publicly Available on CDM Webpage
22	CDM	<u>Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period</u>	Version 3.0.1	Publicly Available on CDM Webpage
23	Central Electricity Authority, Ministry of Power	<u>CDM – CO₂ Baseline Database (CO₂ Baseline Database for Indian Power Sector)</u>	Version 19.0	Publicly Available
24	ISO	Standards: <u>ISO 14064-2:2019 & ISO 14064-3:2019</u>	31/05/2019	-
25	VKU Certification Pvt. Ltd.	QMS Procedures and SOPs	N/A	VKU Certification Pvt. Ltd.
26	MSEDCL	Certificate of calibration; Issued by Testing and Quality Assurance Laboratory Urbon Testing Division, MSEDCL, Nashik	-	Infinite Environmental Solutions Limited
27	Greenko Suvaan Energy Private Limited	Commissioning Certificate for 100 MW	Date: 16/06/2017	Infinite Environmental Solutions Limited
28	Greenko Suvaan Energy Private Limited	Employment Records 1. Employment Generation Details 2. Attendance Register	N/A (AT has cross checked the employment records of the 1 st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2 nd Crediting period)	Infinite Environmental Solutions Limited

		3. Salary Slips		
29	Greenko Suvaan Energy Private Limited	Training Record: 1. Training 2. Attendance	N/A (AT has cross checked the training records of the 1 st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2 nd Crediting period)	Infinite Environmental Solutions Limited
30	Greenko Suvaan Energy Private Limited	Declaration of O&M	Dated: 10/08/2023	Infinite Environmental Solutions Limited
31	Greenko Suvaan Energy Private Limited	Declaration- • ODA (Official Development Association) For this whole crediting period	06/06/2024	Infinite Environmental Solutions Limited
32	MSEDCL (Maharashtra State Electricity Distribution Company Limited)	JMR	N/A (AT has cross checked the invoice of the 1 st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2 nd Crediting period)	Infinite Environmental Solutions Limited
33	Greenko Suvaan Energy Private Limited	Invoices	- N/A (AT has cross checked the JMR of the 1 st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2 nd Crediting period)	Infinite Environmental Solutions Limited
34	Government of National Capital Territory of Delhi	Power Purchase Agreement (PPA) between Orange Suvaan Energy Private Limited and Solar Energy Corporation of India limited	Dated: 11/04/2016	Infinite Environmental Solutions Limited

35	Sustain-cert Portal	Screen Short of first submission of document	Dated: 08/06/2019	Infinite Environmental Solutions Limited
36	GS4GG	Cover Letter	-	Infinite Environmental Solutions Limited
37	JA Solar	Technical Details of Solar Panel	N/A (AT has cross checked the previous registered PDD of the 1 st crediting period to confirm the technical details of the implemented project made by the PD during the current 2 nd Crediting period	Infinite Environmental Solutions Limited
38	Greenko Suvaan Energy Private Limited	Grievance Register	N/A AT has cross checked the grievance records of the 1 st crediting period to confirm the implementation of ongoing communication with local stakeholder.	Infinite Environmental Solutions Limited
39	Greenko Suvaan Energy Private Limited	Hazardous Waste Sheet	N/A (AT has cross checked the Hazardous Waste Register of the 1 st crediting period to confirm the reasonableness of the assumptions made by the PD during the current 2 nd Crediting period	Infinite Environmental Solutions Limited
40	GS4GG	Transition Request Form	N/A (AT has cross checked the transition Request Form provided by PD.	Available on GS4SS
41	Greenko Suvaan Energy Private Limited	Declaration for no double counting	06/06/2024	Infinite Environmental Solutions Limited
42	Greenko Suvaan Energy Private Limited	No Discrimination Policy	16/06/2017	Infinite Environmental Solutions Limited
43	Google Inc.	<u>Google Earth Pro</u>	N/A	Publicly Available

44	-	<u>GPS Map Camera</u>	N/A	Publicly Available
45	VKU Certification	VKU.24W.Audit and Sampling Plan	VKU.F24W. Audit and Sampling Plan_VKU.VAL.16.24.GS_5928	VKU Certification
46	VKU Certification	VKU.F46W. Attendance Sheet for Audit	VKU.F46W. Attendance Sheet for Audit_VKU.VAL.16.24.GS_5928	VKU Certification
47	VKU Certification	Screenshots taken during remote audit	On 05/06/2024	VKU Certification
48	VKU certification	Recording of remote audit	On 05/06/2024	VKU Certification
49		Ongoing Finance Need	Calculation sheet to demonstrate Ongoing Finance needs and its supporting evidences containing Previous MRs & Company Balance sheets	Infinite Environmental Solutions Limited
50	Greenko Suvaan Energy Private Limited	IRR Sheet	Excel sheet to demonstrate Investment Analysis in the project	Infinite Environmental Solutions Limited

3.2 Remote Inspection

VKU Certification Pvt. Ltd. has conducted remote audit on 05/06/2024 using video call over Microsoft Teams and same has been recorded and stored /48/ for validation (RCP) of this project activity “**2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India**” 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 /12/. 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/43/, the same is assessed in section 4.1.4 of the final FVR; version 3.0 dated 31/12/2024

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 3.0 dated 31/12/2024
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 04, dated 25/09/2024 as these parameters are based on the applied latest CDM methodology and sourced from <u>CEA database</u> .
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 04, dated 25/09/2024 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 04, dated 25/09/2024 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 3.0 dated 31/12/2024

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

Date of Remote Audit: 05/06/2024				
No.	Activity Performed on remote audit	Site Location	Date and Time	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	Date: 05/06/2024, Time: 11:10 AM to 11:30 AM	Barun Kumar, KM Nisha Chauhan and Megha Modi
1.	<p>Discussion over-</p> <ul style="list-style-type: none"> - Project Activity (Technology, Location and Implementation) - Parameter fixed Ex-ante and Baseline emissions, Project emissions and Leakage calculation - Choice and applicability of baseline methodology(ies) - Project boundary and emission sources included in the project boundary - applicability of baseline methodology(ies) - Monitoring plan (feasibility of monitoring plan described in PDD, QA/QC procedures, responsibility of implementation of monitoring plan, data recording & storage procedures) - Emergency Procedure - Operational lifetime of the project activity, Start date of the project activity, Crediting period - Environmental impacts and need of EIA 	Remote audit conducted over Video Call using Microsoft Teams	Date: 05/06/2024, Time: 11:30 AM to 02:40 PM	Barun Kumar, KM Nisha Chauhan and Megha Modi

<ul style="list-style-type: none"> - Grievance Redressal Mechanism (ongoing communication procedure with relevant local stakeholder) - Interview of relevant Local Stakeholders <p>Compilation of the findings by Auditor/s (CARs/CLs)</p> <p>Discussion of the audit findings to the client and agreement on the issues raised and agreement on timelines.</p>			
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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 05/06/2024 to disclose their names and designation/affiliation in the final validation report of this project activity “**2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India**” (GS 5928) and none of them have any objection over this hence, there is no perceived or potential conflict of interest.

All the interviews conducted during remote audit for validation of this project activity as recorded in VKU.F46W. Attendance Sheet for Audit_VKU.VAL.16.24.GS_5928 /44/ is listed below:

No.	Interviewee			Date	Subject	Team Member
	Last Name (Gender)	First Name	Affiliation			
1.	Kamble (Male)	Vishwas	Greenko Suvaan		Working of the project Baseline scenario Implementation status of the project	Barun Kumar
2.	Shinde (Male)	Bhushan	Energy			
3.	Jagdeo (male)	Blushan	Private			
4.	Bodure (male)	Kiran	Limited			
5.	Jintendra (Male)	Badgogor				
6.	Raju M. (Male)	Murali Krishnah				

7.	Giri (Male)	V. Naga Venkata		05/06/2024	Power Purchase agreement	
9.	Gupta (Male)	Rajeev	Infinite Solution		Benefits of the project Location of implemented meters Trainings mechanism QA/QC procedure Emergency Procedure Grievance mechanism Roles and responsibility of Job	

No.	Interviewee			Date	Subject	Team Member
	Last Name	First Name	Affiliation			
1.	Mali	Kiran	Local Stakeholder	05/06/2024	Baseline scenario Roles and responsibility of Job	Barun kumar
2.	Shinde	Dhyanishwar				
3.	Bodan	Koran				
4.	Mali	Vishal				
5.	B.	Mahendra				

					Grievance mechanism	
					Benefits of the project	

3.4 Sampling Approach

Not Applicable, this project is renewable solar project so there was no sampling involved. 100% data and record were checked.

3.5 Eligibility of the project under Gold Standard

The General Eligibility Criteria under 3.1.1 of GS4GG Principles & Requirements are as follows:

Eligibility Criteria	Description	Justification by PD	VKU Assessment
Types of Projects	The project type is a Solar Power Plant which generates power using solar Energy. The project activity belongs to the type of Renewable energy that generate and deliver power to the Indian grid. The project applies methodology ACM0002 Version 22.0. which is an approved methodology under Gold Standard.	The Solar Power Plant Project is conceived as a grid connected solar power plant within the category of renewable energy supply. See section A.1 of the PDD/1/.	Assessment team confirms that it is a solar power project which harness renewable energy and supply electricity to the Indian grid as per the Commissioning Certificate /27/ and The Power purchase agreement between Project Proponent and Solar Energy Corporation of India Limited /34/
Location of Project:	The Project activity is located in Dist. Dhule, Maharashtra state in India. Further details have been provided in section A.2 of the PDD/1/.	The Power purchase agreement between Project Developer and Solar Energy Corporation of India Limited.	Assessment team confirms that this project activity is located in Village: Mhasale, District: Dhule, State: Maharashtra on the basis of location mentioned in Commissioning Certificate /27/, The

			Power purchase agreement between Project Proponent and Solar Energy Corporation of India Limited /34/ and remote audit.
Project Area, Project Boundary and Scale:	<p>Project Area and Boundary are defined in line with the applicable Methodology ACM0002 Version 22.</p> <p>The project activity includes 100 MW installed capacity and is Large Solar power plants with an installed capacity above 15 MW to be qualified as a large-scale solar plant (in accordance with UNFCCC rules).</p>	<p>Please refer section A.2 of PDD for the Geographical coordinates.</p> <p>The project has an install capacity of 100 MW which is more than 15 MW, therefore applies as a Large-Scale project. See section A.4 of the PDD/1/.</p>	<p>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 solar panel installation, pooling and sub-stations. The project activity evacuates the power to the INDIAN grid. Therefore, all the power plants contributing electricity to the Indian 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 22.</p> <p>Assessment team confirms that it is a large-scale project activity as per the GHG Emissions Reduction & Sequestration Product Requirements /15/</p>

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.
Contact Details:	Project Participant: Greenko Suvaan Energy Private Limited 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 /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 (PPA) is in the name of the project participant.	Assessment team confirms that the legal owner Greenko Suvaan Energy Private Limited of this project activity as per GS4GG Cover Letter /36/, Commissioning Certificate /27/ The Power purchase agreement between Project Proponent and Solar Energy Corporation of India Limited/34/. Hence, Greenko Suvaan Energy Private Limited is 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	The Project Owner declares that the project has not directly or indirectly received or benefited from official development assistance. An Official Development Assistance (ODA)	Assessment team confirms that this project activity has not received funding from Annex 1 countries as per the interview conducted

	Assistance (ODA) involved in the project activity.	declaration i.e., GS Annex D) has been submitted to VVB.	during remote audit and ODA declaration /31/ given by PD.
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The eligibility criteria as per section 4 Eligible Principles & Requirements of GS4GG 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. /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 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. declaration for no double counting has been provided by the PD.	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/

		<p>3) https://verra.org/verra-standards-and-programs/</p> <p>5) https://www.irecstandard.org/</p> <p>6) https://cri.nccf.in/</p> <p>7) International Carbon Registry</p> <p>8) GCC Projects Portal</p> <p>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. /41/</p>
<p>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</p>	<p>The host country for project activity is India which is a non-annex I Country.</p> <p>Hence, no emission reduction cap enforced as well as no emission trading system implemented in the host country.</p>	<p>Assessment team confirms that this project activity is implemented in Dhule, Maharashtra 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 Certificate /27/, The Power purchase agreement between Project Proponent and Solar Energy Corporation of India Limited /34/ and the remote audit. Also, AT has independently confirmed that the Project activity (2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India) is not included under India's Nationally Determined Contributions (NDC) regulatory framework, specifically regarding energy-intensive industries. India's NDCs target emissions reductions through a combination of regulatory mechanisms like the Perform Achieve and Trade (PAT) Scheme, which applies to high energy-consuming sectors (e.g., power, cement, steel, etc.). However, this project activity falls outside these sectors and thus is not subject to any direct emission reduction cap.</p>

<p>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.</p>	<p>The Project is not registered in any other mechanism. Also, self-declaration for no double counting has been provided by the PD.</p>	<p>Assessment team has cross-checked the following registries:</p> <ol style="list-style-type: none"> 1) http://cdm.unfccc.int/ 2) https://www.recregistryindia.nic.in/ 3) https://verra.org/verra-standards-and-programs/ 5) https://evident.app/IREC/device-register/table/ 6) https://cri.nccf.in/ 7) International Carbon Registry 8) GCC Projects Portal <p>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 /41/ 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. The same has been cross-checked by validation team from Renewable Energy Certificate Registry of INDIA. The validation team concluded that the electricity generated from the given project activity is not claimed by the DISCOM as an RPO commitment as per the PPA/34/, this is also cross verified by interviewing the project representative during the remote audit.</p> <p>Validation team independently cross verify the publicly available weblink https://evident.app/IREC/device-register/table and found that this project activity is not registered under I-REC. Furthermore, validation</p>
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		<p>team also independently cross verify the https://climateactiontracker.org/countries/india/ and https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1847812#:~:text=As%20per%20the%20updated%20NDC,based%20energy%20resources%20by%202030. and found that the given project activity is also not consider under the India NDC target.</p>
<p>7. Demonstrate that the project is in compliance with applicable Host Country's legal, environmental, ecological and social regulation.</p>	<p>The project activity has obtained all the authorities' approvals to comply with legal, environmental, ecological and social regulations before begin the implementation.</p>	<p>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.</p>

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 solar power project which harness renewable energy and supply electricity to the Indian grid as per the Commissioning Certificate /27/ and Power Purchase Agreement (PPA) between Project Developer and Solar Energy Corporation of India Limited/34/.
Project Location:	The project is located in district Dhule state Maharashtra of India.	Assessment team confirms that this project activity is located in in Village: Mhasale, District: Dhule, State: Maharashtra on the basis of location mentioned in Commissioning Certificate

		/27/, and Power Purchase Agreement (PPA) between Project Developer and Solar Energy Corporation of India Limited/34/ and remote audit.
Project Scale	The project activity includes 100 MW installed capacity and is Large Solar power plants with an installed capacity above 15 MW to be qualified as a large-scale solar plant (in accordance with UNFCCC rules).	<p>As per GS4GG GHG Emissions Reduction & Sequestration Product Requirements /15/ -</p> <p>“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;</p> <p>a) Type 1: Renewable energy Projects: maximum output capacity of 15 MW(e) or 45MW (th).”</p> <p>As per renewable energy activity requirement /14/ any renewable energy Project with a maximum output capacity of 15 MW (or an appropriate equivalent) is defined as small scale project.</p> <p>Since this project activity has capacity of 100 MW that is more than 15 MW hence, it comes under large scale project activity.</p>

4 VALIDATION FINDINGS

Sustainable Development Goals Targeted	SDG Impact	Estimated Annual Average	Unit or Products
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SDG 7: Affordable and Clean Energy	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	198,149.59 MWh per annum.	MWh of renewable energy generated
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. Training: 3 no's annually along with workplace health and safety is also conducted annually. 2. Employment of 25 staff. 3. 40 Mn. INR	1. No. of trainings provided to the employees/year 2. Employment generated due to project activity. 3. Income generation due to the project activity
SDG 13: Climate Action	13.2: Integrate climate change measures into national policies, strategies and planning.	185,309 tCO ₂ e per annum	Emission reductions in tCO ₂ e

This report contains the findings in the term of CL, CAR and FAR where:

A corrective action request (CAR) is raised in validation findings if one of the following occurs:

- Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
- Mistakes have been made in applying assumptions, data or calculations of emissions reductions that will impair the estimate of emission reductions;
- Issues identified in a FAR during validation and verification to be verified during verification have not been resolved by the project developer.

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

A forward action request (FAR) is also raised in cases where any required deviation/information is not fulfilled in current validation/verification and thus needs to be taken up in consequent verification for better transparency thus holding the applicability of the methodology eligible to the project activity and there is no impact of the same on additionality, baseline scenario & emission reduction calculation of project.

A total of 17 findings were raised, which includes: **08 Corrective Action Requests (CARs)**; **09 Clarification Requests (CLs)** and **00 Forward Action Request (FAR)**. All the findings were successfully resolved by the PD. 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: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, ER Sheet; Version 01, dated: 03/06/2024 and Version 02, dated 25/09/2024 /2/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018 /3/ and remote audit.
Findings	CL#06 and CAR #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 04, dated 25/09/2024/1/ is correct and it complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/, previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018 /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: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and
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	previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No finding has been 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 04, dated 25/09/2024/1/ and it is correct as per previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/, Commissioning Certificate issued by Maharashtra Energy Development Agency/27/, Power Purchase Agreement (PPA) between Orange Suvaan Energy Private Limited and Solar Energy Corporation of India Limited /34/. And Technical Details of the Solar panel /37/.

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: 03/06/2024, Version 02, dated 06/06/2024, Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, Final ER Sheet; Version 01, dated: 03/06/2024 and Version 02, dated 25/09/2024/2/, supporting documents (Section 3.1) and remote audit.
Findings	CAR#02, CAR #03 and CL#06 were 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 04, dated 25/09/2024/1/ and it complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/, GS4GG Principles and Requirements; Version 1.2, dated: 23/10/2019 /6/, GS4GG Renewable energy activity requirements; Version 1.4, dated: 16/08/2021 /14/ and Gold standard eligible impact quantification methodologies Version 05, dated 30/12/2019 /16/.

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: 03/06/2024, Version 02,
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	dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No finding has been raised for legal ownership of the product.
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 04, dated 25/09/2024/1/ is correct and Orange Suvaan Energy Private Limited is the legal owner of products generated by the project, previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ Commissioning certificate/27/ PPA /34/ and GS4GG cover letter /36/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.

4.1.4 Location of Project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 25/10/2018/3/and remote audit.
Findings	CL#07 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that location of project mentioned in Section A.2 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/is correct as per Commissioning Certificate issued by Maharashtra Energy Development Agency /27/, Power Purchase Agreement (PPA) between Orange Suvaan Energy Private Limited and Solar Energy Corporation of India Limited /34/ and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/. It complies with the guidelines mentioned in the

	template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/
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4.1.5 Technologies and /or measures

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	CL#08 were 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 04, dated 25/09/2024/1/ is correct as per Commissioning Certificate of Maharashtra Energy Development Agency/27/ and Technical Specification of Solar panel /37/ and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.

4.1.6 Scale of Project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/and remote audit.
Findings	No finding has been raised for scale of the project.
Conclusion	Assessment Team confirms that the project has an installed capacity of 100 MW which is more than 15 MW, therefore applies as a Large -Scale project and also mentioned in Section A.4 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/and it is correct as per Commissioning Certificate issued by Maharashtra Energy Development Agency

	<p>/27/, Power Purchase Agreement (PPA) between Orange Suvaan Energy Private Limited and Solar Energy Corporation of India Limited /34/ and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/ and GS4GG GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /15/.</p>
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4.1.7 Funding sources of project

Means of Validation	<p>Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.</p>
Findings	<p>No findings has been raised for funding sources of project.</p>
Conclusion	<p>Assessment Team confirms that no public funding from Annex 1 countries and no diversion of Official Development Assistance (ODA) /31/ is involved in this project activity as mentioned in Section A.5 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/. It is correct as per declaration given by the project developer and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.</p>

4.2 Application and selection of methodologies and standardized baselines

4.2.1 Reference of approved methodology(ies)

Means of Validation	<p>Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version</p>
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	04, dated 25/09/2024/1/, Final ER Sheet; Version 01, dated: 03/06/2024 and Version 02, dated 25/09/2024 /2/, supporting documents (Section 3.1) and remote audit.
Findings	No finding has been raised for reference of approved methodology.
Conclusion	<p>Assessment Team confirms that methodology /19/ and tools /20/ /21/ /22/ mentioned in Section B.1 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ is the latest one and these are as follows:</p> <p>Methodology:</p> <ol style="list-style-type: none"> 1. ACM0002: Grid-connected electricity generation from renewable sources - Version 22.0/19/ 1. Tool 1: Tool for the demonstration and assessment of additionality; Version 07.0.0 (EB 70, Annex 08) /20/ 2. Tool 7: Tool to calculate the emission factor for an electricity system; Version 07.0.0 (EB 100, Annex 4) /21/ 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) /22/ <p>It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /10/, Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /16/, GHG Emissions Reduction & Sequestration Product Requirements, Version 2.2, dated: 28/08/2023 /15/ and also cross verify with CDM website, CEA database. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.</p>

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: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, Final ER Sheet; Version 01, dated:
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	03/06/2024 and Version 02, dated 25/09/2024, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No finding has been raised for Applicability of methodology (ies) and standardized baselines
Conclusion	Assessment Team confirms that the applicability criterion of methodology /19/ and tools /20/ /21/ /22/ as mentioned in Section B.1 the Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ is correct and this project activity fulfils all the requirements of GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /10/ Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /16/, GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /15/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.

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: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, Final ER Sheet; Version 01, dated: 03/06/2024 and Version 02, dated 25/09/2024, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No findings has been raised for Deviation from methodology and/or methodology tool.
Conclusion	Assessment Team confirms that methodology and tools mentioned in Section B.1 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ is the latest one and these are as follows: Methodology: ACM0002: Grid-connected electricity generation from renewable sources - Version 22.0/19/

	<p>1. Tool 1: Tool for the demonstration and assessment of additionality; Version 07.0.0 (EB 70, Annex 08) /20/</p> <p>2. Tool 7: Tool to calculate the emission factor for an electricity system; Version 07.0.0 (EB 100, Annex 4) /21/</p> <p>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) /22/</p> <p>It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /10/, Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /16/, GHG Emissions Reduction & Sequestration Product Requirements, Version 2.2, dated: 28/08/2023 /15/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/. No deviation has been found either in methodology /19/ or tools /20/ /21/ /22/ used in the Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/.</p>
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4.2.4 Project Boundary, sources and GHGs

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No finding has been raised for Project Boundary.
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 04, dated 25/09/2024/1/ is correct as per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 22.0/19/, GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /10/ and also complies with the guidelines mentioned in the template guide of Key Project Information &

	Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.
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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: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, Final ER Sheet; Version 01, dated: 03/06/2024 and Version 02, dated 25/09/2024, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.										
Findings	No finding has been raised for establishment and description of baseline scenario										
Conclusion	<p>Assessment Team confirms that the baseline scenario established in Section B.4 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ 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 /22/, para 24 of the applied methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 22.0 /19/ and GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /10/. The baseline emission factor is calculated as per the latest CDM – CO₂ Baseline Database; Version 19.0 /23/ released by Central Electricity Authority, Ministry of Power, GoI, available at the time of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ submission for renewal. The OM, BM & CM of the INDIAN grid used for the project activity is as follows:</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th>Nomenclature</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>EF_{grid,OM,y}</td> <td>0.9580 tCO₂/MWh</td> <td>Operating margin CO₂ emission factor for the project electricity system in year y</td> <td>Calculated as the last 3-year (2020-21, 2021-22 and 2022-23) generation-weighted average, sourced from</td> </tr> </tbody> </table>			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
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 /23/, 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 /23/, 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 for the project electricity system in year y	Calculated as the weighted average of the operating margin (0.75) & build margin (0.25) values, sourced from Baseline CO ₂ Emission Database; Version 19.0 /23/, 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 1.5, dated 29/06/2023 /17/.
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4.2.6 Demonstration of additionality

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/and remote audit.
Findings	No finding has been raised for demonstration of additionality
Conclusion	<p>It is a retroactive project and already registered under gold standard. Assessment Team (AT) 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) /20/. It also complies with GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /10/ and the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.</p> <p>As the project is retroactive, the project activity has already demonstrated the additionality at the time of project validation/4/. Based on the review of registered PDD /3/ of the project and the IRR sheet/50/ provided by PD, the IRR of the project is 8.93% whereas the benchmark is 16.05%.</p> <p>As per Section 2 of the Assessment Process and Requirements in the RULE CLARIFICATION document titled "<u>ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS</u>" (version 1.0), the variation in the PLF is systematic. Consequently, in accordance with Section 2.1.9 of the same document, the Project Developer has re-evaluated the PLF and updated the RCP PDD/1/ and the VVB has provided the assessment.</p> <p>Based on the actual generation data of the first crediting period, the PD has again demonstrated the additionality of the project for the current RCP (Renewal of Crediting Period).</p>

In the IRR sheet, the Project Developer has updated the PLF value to align with the first crediting period, resulting in a change from 19.25% to 23.17%. This adjustment was made in accordance with Clause 2.1.6 of the document titled "Assessment Approach for Reporting Higher Ex-Post Emission Reductions" (Version 1.0). Upon applying the revised PLF in the IRR sheet, the IRR has been recalculated to 14.04% (only for PLF) while other values remain unchanged. This value remains below the benchmark IRR of 16.05%. Additionally, the benchmark of PLF, as specified in the registered PDD, is 24.67%. Based on the new PLF, the variation required to reach the benchmark PLF is 6.50%.

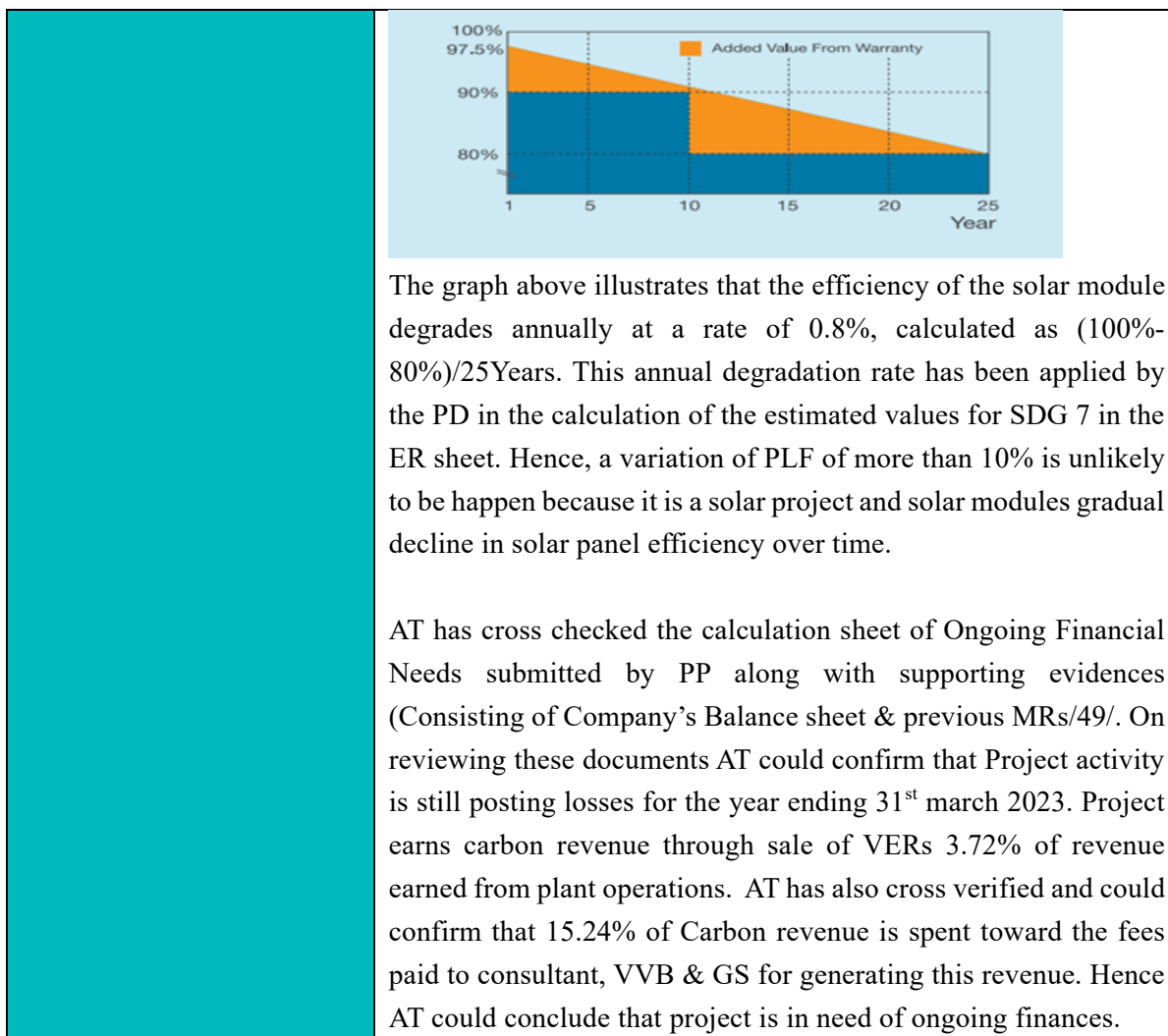
Given that this is a solar project, it is important to note that solar modules typically experience performance degradation over time. Therefore, a substantial increase in the PLF to breach the benchmark is highly improbable.

AT has also reviewed both IRR calculation sheets with PLF value 19.23% and some of the key results are tabulated below;

Parameters	1 st crediting period	2 nd crediting period
PLF	19.23%	23.17%
Estimated revenue from sale of energy	747.03 M Indian rupee	899.15 M Indian rupee
Equity IRR	8.93%	14.04%
Benchmark of IRR	16.05%	16.05%
Breaching value of PLF	24.76%	24.76%

On the review of ongoing financial need/49 / of the project, assessment team observed the change in PLF of the project for the current RCP, which is demonstrated above.

In the ER sheet/2/, the AT discovered discrepancies between the CP1 and CP2 values for SDG 7 due to the degradation factor. As outlined by the PD, the technical specifications of solar modules exhibit a degradation rate of a certain percentage each year. Consequently, the PD has applied this degradation factor during the calculation of the Renewal Credit Period (RCP) for the entire crediting period.



4.2.7 Prior Consideration

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No finding has been raised for prior consideration.
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: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, Final ER Sheet; Version 01, dated: 03/06/2024 and Version 02, dated 25/09/2024, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.														
Findings	No finding has been raised for estimation of emission reductions (SDG 13) or net anthropogenic removals and other Sustainable Development Goals														
Conclusion	<p>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:</p> <table border="1" data-bbox="667 890 1451 1671"> <thead> <tr> <th data-bbox="667 890 906 1003">Sustainable Development Goals Targeted</th> <th data-bbox="906 890 1235 1003">Most Relevant SDG Target</th> <th data-bbox="1235 890 1451 1003">SDG Impact</th> </tr> </thead> <tbody> <tr> <td data-bbox="667 1003 906 1150">SDG 13: Climate Action</td> <td data-bbox="906 1003 1235 1150">Integrate climate change measures into national policies, strategies and planning</td> <td data-bbox="1235 1003 1451 1150">Emissions Reductions in tCO₂</td> </tr> <tr> <td data-bbox="667 1150 906 1497">SDG 8: Decent Work and Economic Growth</td> <td data-bbox="906 1150 1235 1497">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</td> <td data-bbox="1235 1150 1451 1497">1. Training 2. Employees 3. Income Generation</td> </tr> <tr> <td data-bbox="667 1497 906 1671">SDG 7: Affordable and Clean Energy</td> <td data-bbox="906 1497 1235 1671">7.2: By 2030, increase substantially the share of renewable energy in the global energy mix</td> <td data-bbox="1235 1497 1451 1671">MWh of renewable energy generated.</td> </tr> </tbody> </table> <p>Summary of ex ante estimates of each SDG Impacts are as follows: SDG 7: Affordable and Clean Energy</p>			Sustainable Development Goals Targeted	Most Relevant SDG Target	SDG Impact	SDG 13: Climate Action	Integrate climate change measures into national policies, strategies and planning	Emissions Reductions in tCO ₂	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. Training 2. Employees 3. Income Generation	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.
Sustainable Development Goals Targeted	Most Relevant SDG Target	SDG Impact													
SDG 13: Climate Action	Integrate climate change measures into national policies, strategies and planning	Emissions Reductions in tCO ₂													
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. Training 2. Employees 3. Income Generation													
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.													

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	0	201,345.45 MWh	201,345.45 MWh
Year 2	0	199,734.68 MWh	199,734.68 MWh
Year 3	0	198,136.81 MWh	198,136.81 MWh
Year 4	0	196,551.71 MWh	196,551.71 MWh
Year 5	0	194,979.30 MWh	194,979.30 MWh

SDG 8: Decent Work and Economic Growth

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	0 Training, 0 Jobs	3 Training, 25 Jobs and 40 Mn. INR income generation	3 Training, 25 Jobs and 40 Mn. INR income generation
Year 2	0 Training, 0 Jobs	3 Training, 25 Jobs and 40 Mn. INR income generation	3 Training, 25 Jobs and 40 Mn. INR income generation
Year 3	0 Training, 0 Jobs	3 Training, 25 Jobs and 40 Mn. INR income generation	3 Training, 25 Jobs and 40 Mn. INR income generation
Year 4	0 Training, 0 Jobs	3 Training, 25 Jobs and 40 Mn. INR income generation	3 Training, 25 Jobs and 40 Mn. INR income generation
Year 5	0 Training, 0 Jobs	3 Training, 25 Jobs and 40 Mn. INR income generation	3 Training, 25 Jobs and 40 Mn. INR income generation

SDG 13: Climate Action

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	188,298 tCO ₂ e	0 tCO ₂ e	188,298 tCO ₂ e
Year 2	186,791 tCO ₂ e	0 tCO ₂ e	186,791 tCO ₂ e
Year 3	185,297 tCO ₂ e	0 tCO ₂ e	185,297 tCO ₂ e
Year 4	183,815 tCO ₂ e	0 tCO ₂ e	183,815 tCO ₂ e
Year 5	182,344 tCO ₂ e	0 tCO ₂ e	182,344 tCO ₂ e

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 04, dated 25/09/2024/1/ is correct as per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 22.0/19/ and it complies with the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /10/ and guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.

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 04, dated 25/09/2024 which are validated above.

4.4 Monitoring Plan

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, Final ER Sheet; Version 01, dated: 03/06/2024 and Version 02, dated 25/09/2024, supporting documents (Section 3.1) and previously registered CDM Project
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	Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.										
Findings	CL#09 was raised and closed successfully. For more details, please refer Appendix 3.										
Conclusion	<p>As part of monitoring plan, these are the following data/parameters which will be monitored under 3 SDGs (SDG 7, SDG 8 & SDG 13):</p> <p>SDG 7: Affordable and Clean Energy</p> <table border="1"> <tr> <td>Data / Parameter</td> <td>$EG_{\text{facility},y}$</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 issued by State Electricity Board. These are called JMR (Joint Meter Reading)</td> </tr> <tr> <td>Measurement methods and procedures</td> <td> <p>Data Type: Measured</p> <p>Monitoring equipment: Energy Meters of accuracy class 0.2s</p> <p>Calibration frequency of meter: Once in 5 years as per CEA guidelines.</p> <p>Net electricity supplied is calculated based on the difference between values of “export” and “import” on the EB energy meter at the Shivaji nagar substation (evacuation point).</p> <p>(Net Electricity = Export – Import)</p> <p>The export and import of electricity reading are sourced from the monthly generation statement/JMR. There are two bays and electricity are evacuated to the GSS through two lines and each has a dedicated set of main and check meter.</p> <p>Cross Checking:</p> <p>Quantity of net electricity supplied to the grid will be cross checked from the Invoices/33/ Monthly Bill raised by the Project Participant to the Solar Energy Corporation of India Limited.</p> </td> </tr> </table>	Data / Parameter	$EG_{\text{facility},y}$	Unit	MWh/Year	Description	Quantity of net electricity supplied to the grid during the year y.	Source of data	Monthly energy generation statement issued by State Electricity Board. These are called JMR (Joint Meter Reading)	Measurement methods and procedures	<p>Data Type: Measured</p> <p>Monitoring equipment: Energy Meters of accuracy class 0.2s</p> <p>Calibration frequency of meter: Once in 5 years as per CEA guidelines.</p> <p>Net electricity supplied is calculated based on the difference between values of “export” and “import” on the EB energy meter at the Shivaji nagar substation (evacuation point).</p> <p>(Net Electricity = Export – Import)</p> <p>The export and import of electricity reading are sourced from the monthly generation statement/JMR. There are two bays and electricity are evacuated to the GSS through two lines and each has a dedicated set of main and check meter.</p> <p>Cross Checking:</p> <p>Quantity of net electricity supplied to the grid will be cross checked from the Invoices/33/ Monthly Bill raised by the Project Participant to the Solar Energy Corporation of India Limited.</p>
Data / Parameter	$EG_{\text{facility},y}$										
Unit	MWh/Year										
Description	Quantity of net electricity supplied to the grid during the year y.										
Source of data	Monthly energy generation statement issued by State Electricity Board. These are called JMR (Joint Meter Reading)										
Measurement methods and procedures	<p>Data Type: Measured</p> <p>Monitoring equipment: Energy Meters of accuracy class 0.2s</p> <p>Calibration frequency of meter: Once in 5 years as per CEA guidelines.</p> <p>Net electricity supplied is calculated based on the difference between values of “export” and “import” on the EB energy meter at the Shivaji nagar substation (evacuation point).</p> <p>(Net Electricity = Export – Import)</p> <p>The export and import of electricity reading are sourced from the monthly generation statement/JMR. There are two bays and electricity are evacuated to the GSS through two lines and each has a dedicated set of main and check meter.</p> <p>Cross Checking:</p> <p>Quantity of net electricity supplied to the grid will be cross checked from the Invoices/33/ Monthly Bill raised by the Project Participant to the Solar Energy Corporation of India Limited.</p>										

	Monitoring frequency	<p>Measurement: Continuous</p> <p>Recording: Monthly</p> <p>Monitoring Method: recording in JMR (Join Meter Reading)</p> <p>The JMR includes monthly recording of electricity export & import. Energy meters of accuracy class 0.2s.</p>
	QA/QC procedures	<p>Net electricity supplied to the grid by the project activity has been cross checked with invoices submitted for the sale of power by the project proponent/34/. Calibration of all the meters will be undertaken at least once in 5 years calibration or whenever abnormal difference/ inconsistency is observed between main meter and check meter and faulty meters will be duly replaced immediately.</p>

SDG 8: Decent Work and Economic Growth

Data / Parameter	<p>Quantitative employment</p> <p>Quality of employment</p> <p>Income generation</p>
Unit	<p>Number (employees)</p> <p>Number (Trainings)</p> <p>Mn. INR</p>
Description	<ul style="list-style-type: none"> • Number of project employees. • Number of Trainings provided to employees & O&M staff <p>Income Generation</p>
Source of data	<ul style="list-style-type: none"> • Employee Records • Training Records (HSE & HR) <p>Income generation</p>
Measurement methods and procedures	<p>Employee Records</p> <p>Training Records</p> <p>Income Generation</p>
Monitoring frequency	<p>Annually</p>

	QA/QC procedures	The number of persons employed is mentioned in the plant register, which can be crossed checked with daily attendance register. The trainings held can be crosschecked with the training documents maintained at site.
	SDG 13: Climate Action	
	Data Parameter /	Emissions Reduction
	Unit	tCO ₂ e
	Description	CO ₂ emission reduction 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 PD 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.

	Assessment Team confirms that the monitoring plan mentioned in Section B.7 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ is correct as there is no change from the previous monitoring plan /3/ mentioned in the previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and it also complies with the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /10/ and guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.
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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: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No findings has been raised for project Start date, crediting period type and duration
Conclusion	<p>Assessment Team confirms that start date of this project activity is 25/10/2016 and it is correct as per the supporting document i.e., Work order for civil work for solar photovoltaic power plant and GS Passport /5/ and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/.</p> <p>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 25/09/2024 is from 16/06/2024 to 15/06/2029 (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 /10/.</p>

4.6 Environmental Impacts

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02,
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	dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ 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 04, dated 25/09/2024/1/. It is correct as per the Environment and Social Impact Assessment.

4.7 Local Stakeholder Consultation

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 Final Key Project Information & Project Design Document (PDD Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.
Findings	No finding has been raised for local stakeholder consultation
Conclusion	<p>As per clause 5.1.47 of GS4GG Principles & Requirements; Version 1.2, the scope of Design certification renewal is limited to:</p> <ol style="list-style-type: none"> Changes in the Project as related to the General Eligibility Criteria. Incorporation of any relevant updates to the Gold Standard Requirements. Re-definition of Baseline Scenario and any impact of change on the Eligibility Principles, Criteria and Requirements. Any Gold Standard activity, product and methodology-specific Requirements. Demonstration of Ongoing Financial Need, where relevant <p>This project activity is already registered in GS4GG and PD had conducted the Stakeholder consultation physical meeting retroactively. Based on the review of the PDD/1/ and interviews with project developer's representatives, it is confirmed that the stakeholders remain unchanged in RCP and there are no</p>

	<p>modifications in the stakeholders group. Hence, no complementary stakeholder meeting has been conducted by project developer during this RCP (Renewal of crediting period). For continuous input or to record ongoing communication with local stakeholders a grievance register /38/ is available at the project site office of 2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India at Village: Mhasale, District: Dhule, Maharashtra 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 /6/, Validation and verification standard; Version 1.0, dated: 06/03/2023 /10/, guidelines of template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.</p>
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4.8 Global Stakeholder Consultation

Means of Validation	<p>Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/and remote audit.</p>
Findings	<p>No findings were raised.</p>
Conclusion	<p>The transition of the project has to be done from GS to GS4GG and same information assessment team confirm from Transition Annex which is available on ASSURANCE Platform. . 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. The table 2.8 of the GS toolkit was used to identify the stakeholders. The identified stakeholders were the ones local people impacted by the project and then were local NGOs, International NGOs, GS representatives and local govt etc. Also, PD had conducted a physical Stakeholder consultation meeting on 05/07/2017 at Village: Mhasale, District: Dhule, Maharashtra. All the stakeholders were invited through public notice which were displayed/placed to the nearby areas. Further,</p>

	<p>stakeholders were invited individually to attend the stakeholders meeting.</p> <p>Assessment team confirms that the stakeholder consultation mentioned in section E of Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ is correct as per the previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and fulfils the GS4GG principles and requirements /6/ and also complies with the guidelines of template guide of Key Project Information & Project Design Document (PDD); Version 1.5, dated 29/06/2023 /17/.</p>
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4.9 Safeguarding Principle and Gender Sensitive Assessment

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 03/06/2024, Version 02, dated 06/06/2024, Version 03, dated 11/06/2024 and Final Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 05, dated 25/10/2018/3/ and remote audit.										
Findings	No findings were raised.										
Conclusion	<p>PD has assessed Safeguarding principles in Appendix-1 of Key Project Information & Project Design Document (PDD); Version 04, dated 25/09/2024/1/ and the summary of safeguarding principles that be monitored is summaries as follows:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Principles</th> <th>Mitigation measures added to the monitoring plan</th> </tr> </thead> <tbody> <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</td> <td>The waste is disposed to the waste handlers and the firm complies with all the local laws for monitoring and disposal/39/.</td> </tr> </tbody> </table>		S. No.	Principles	Mitigation measures added to the monitoring plan	1.	Principle 6.1: Labor Rights	The Project Developer ensures the training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures.	2.	Principle 9.5 Hazardous and Non-hazardous	The waste is disposed to the waste handlers and the firm complies with all the local laws for monitoring and disposal/39/.
S. No.	Principles	Mitigation measures added to the monitoring plan									
1.	Principle 6.1: Labor Rights	The Project Developer ensures the training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures.									
2.	Principle 9.5 Hazardous and Non-hazardous	The waste is disposed to the waste handlers and the firm complies with all the local laws for monitoring and disposal/39/.									

		Waste	
	3.	Principle 3.1 Community health and safety	The project developer ensures safe working environment for all the workers, by providing trainings/29/ and the use of mandatory safety equipment (helmets, shoes and gloves) while working.

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 Suvaan Energy Private Limited (Project Developer) and Infinite Environmental Solutions limited (Project Representative) for validation (RCP) of the project activity **“2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India” (GS 5928)** for 2nd crediting period from 16/06/2024 to 15/06/2029 (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 key project information & project design document (PDD)/1/ and ER Sheet/2/ correctly applies the valid version of the methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 22.0 /19/ 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 185,309 tCO₂e 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 17 findings were raised, which includes: 08 CARs, 09 CLs and 00 FAR were identified in the Key Project Information and Project Design document (PDD) /1/, ER Sheet/2/. All the CAR and CL have been successfully resolved by project developer.

In summary, it is validation team's opinion that the project activity **“2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India” (GS 5928)** meets all relevant GS4GG and UNFCCC requirements for the renewal of the crediting period. Hence, VKU Certification Pvt. Ltd. recommends the renewal of the second crediting period from 16/06/2024 to 15/06/2029 (Inclusive of both dates).

7 MATERIALITY AND LEVEL OF ASSUMPTION APPLIED

7.1 Materiality

As per the GS4GG Validation and Verification Standard version 1.0, there is no information about the materiality for validation activity. Therefore, materiality has applied based on accreditation of VKU and VKU has accredited from ANAB (ANSI National Accreditation Body) based on ISO 14063-3:2019 /24/ for greenhouse gas, 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 **“2x50 MW Orange Suvaan Solar Photovoltaic Power Project in Maharashtra, India” (GS 5928)**. 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 project representative 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 /24/.

APPENDIX 1: Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO₂	Carbon Dioxide
CO_{2e}	Carbon Dioxide equivalent
CME	Co-ordinating/ Managing Entity
EB	Executive Body
EF	Emission Factor
FAR	Forward Action Request
FVR	Final Validation Report
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
AT	Assessment team
N/A	Not Applicable
RCP	Renewal of crediting Period
PDD	Project Design Document
COD	Date of commissioning
ER	Emission Reduction
CEA	Central Electricity Authority
PPA	Power Purchase Agreement
ODA	Official Development Assistance
MOU	Memorandum of Understanding
NOC	No Objection Certificate
OSEPL	Orange Suvaan Energy Private Limited
GSEPL	Greenko Suvaan Energy Private Limited
MEDA	Maharashtra Energy Development Agency

APPENDIX 2: COMPETENCY STATEMENT

Team Leader-

COMPETENCE STATEMENT

Name	Barun Kumar
Nationality	Indian
Countries of Experience	India, South Africa, Kenya, Uganda, DR Congo, Zambia, Madagascar, Fiji
Education Qualification	B.Sc. (Environmental Science and Water Management) M.Sc. (Ecology & Environmental Sciences)
Year of Experience	12 Years +
Area of Expertise	Climate Change & Environment
Eligible Sectoral Scope	TA 1.2 - Renewables TA 3.1 – Energy Demand TA 6.1 – Construction TA 7.1 – Transport TA 13.1 – Solid waste and wastewater TA 14.1 – Forestry

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, 7.1, 13.1, 14.1)	YES
Financial Expert	NO

Reviewed by	Apoorva Gupta (Quality Manager)	Date	08/10/2023
Approved by	Dr. Vikas Kumar Aharwal (Founder & Director)	Date	08/10/2023

Validator/Verifier – Trainee-

COMPETENCE STATEMENT

Name	Km Nisha Chauhan
Nationality	Indian
Countries of Experience	India
Education Qualification	B.Sc. (PCM) M.Sc. (Environmental Science)
Year of Experience	1 year in VKU
Area of Expertise	Climate Change & Environment
Eligible Sectoral Scope	NA

Roles

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

Reviewed by	Vandana Gupta (Quality Manager)	Date	08.09.2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	08.09.2023

Project Trainee-

COMPETENCE STATEMENT

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

Roles

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

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

Technical Reviewer:



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Sunil Kathuria
Nationality	Indian
Countries of Experience	Malaysia, Uganda, Kenya, South Africa, Nigeria, Bangladesh, China, Vietnam, Thailand, Philippines, United Kingdom, Germany, USA
Educational Qualification	B.E. (Electrical Power)
Year of Experience	40 Years
Area of Expertise	Climate Change & Environment
Eligible Sectoral Scope	SS 1 – TA 1.1 – Thermal energy generation SS 1 – TA 1.2 – Renewables SS 2 – TA 2.1 - Energy distribution SS 3 – TA 3.1 - Energy Demand SS 4 – TA 4.1 – Cement and lime production (Manufacturing Industries) SS 13 – TA 13.1 Solid Waste & Wastewater He is a GS Approved Auditor

Roles

Project Trainee	NO
Validator/Verifier Trainee	NO
Validator	YES
Verifier	YES
Team Leader	YES
Technical Reviewer	YES
Local Expert (India)	YES
TA Expert (1.1, 1.2, 2.1, 3.1, 4.1, 13.1)	YES
Financial Expert	NO

Reviewed by	Apoorva Gupta (Quality Manager)	Date	12/09/2024
Approved by	Barun Kumar (Technical Manager)	Date	12/09/2024

APPENDIX 3: RESOLUTION OF FINDINGS

Finding No. 01	Date: 05-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5	
Non-Conformity	
PP has not mentioned the host country in the description of project.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section A.1	
1st Response from PD	Date: 07/06/2024
The host country name is incorporated in section A.1 of the PDD. Hence, the finding is closed.	
Documents provided by PD for review	
1) PDD version 2.0	
1st Review by Assessment Team	Date: 10-June-2024
It is found that PP has incorporated the name of host country in Section A.1 of updated PDD: Version 02, dated 06-June-2024.	

Finding No. 02	Date: 05-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>

Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
PP has not mentioned the correct registry name for the approved methodology ACM0002.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section A.1.1	
1st Response from PD	Date: 07/06/2024
The statement is correct the reference of the statement is incorporated.	
Documents provided by PD for review	
1) PDD Version 2.0	
1st Review by Assessment Team	Date: 10-June-2024
PP has corrected the statement regarding the applied methodology and provided relevant reference for the same in section A.1.1 of the updated PDD: Version 02, dated 06-June-2024. It is now found to be correct. Hence, the finding is closed.	

Finding No. 03	Date: 05-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5	
Non-Conformity	
PP has incorrectly mentioned the renewable energy source (wind power plant) for the project activity in Updated PDD: Version 01 dated 03-June-2024.	
Evidence	

Updated PDD: Version 01 dated 03-June-2024, Section A.1, Section B.6 and Section B.4	
1st Response from PD	Date: 07/06/2024
The project is solar project activity, it is a typographical error now it is corrected.	
Documents provided by PD for review	
1) PDD version 2.0	
1st Review by Assessment Team	Date: 10-June-2024
PP has corrected the typographical error in mentioning the renewable energy source throughout the updated PDD: Version 02, dated 06-June-2024. Hence, the finding is closed.	

Finding No. 04	Date: 05-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5	
Non-Conformity	
The formatting is not consistent in Updated PDD: Version 01 dated 03-June-2024	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, section.B.7.1	
1st Response from PD	Date: 07/06/2024
The formatting is updated as per TEMPLATE- V1.5-Project-Design-Document.	
Documents provided by PD for review	
1) PDD Version 2.0	

1st Review by Assessment Team	Date: 10-June-2024
<p>The formatting is corrected in updated PDD: Version 02, dated 06-June-2024 and it is now consistent with Template Guide- Project Design Document: Version 1.5. Hence, the finding is closed.</p>	

Finding No. 05	Date: 05-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input type="checkbox"/>
Remote assessment	<input checked="" type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
<p>Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47</p>	
Non-Conformity	
<p>The meter details in the updated PDD (Appendix 5) do not match those verified during the remote audit of the project. PP needs to provide evidence to cross verify the same.</p>	
Evidence	
<p>Updated PDD: Version 01 dated 03-June-2024, Appendix 5</p>	
1st Response from PD	Date: 07/06/2024
<p>The meter information like type, number and calibration details are updated as per actual case and supporting documents of the same is submitted with the responses.</p>	
Documents provided by PD for review	
<p>1) PDD version 2.0 2) Calibration certificates.</p>	
1st Review by Assessment Team	Date: 10-June-2024
<p>Meter details including meter S.NO, types and calibration dates have been revised in the updated PDD: Version 02, dated 06-June-2024. The details are found to be correct by the assessment team as per the remote audit. Hence, the finding is closed.</p>	

Finding No. 06	Date: 05-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
<ol style="list-style-type: none"> 1) PP has not clarified the regional grid details for the electricity supply. 2) PP has not provided GS4GG Cover letter. 	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section A.1	
1st Response from PD	Date: 07/06/2024
<ol style="list-style-type: none"> 1) The name of the substation is incorporated to clarify the regional grid details. 2) GS4GG Cover letter and ODA is submitted with the responses 	
Documents provided by PD for review	
<ol style="list-style-type: none"> 1) PDD version 2.0 2) GS4GG Cover letter 3) ODA 	
1st Review by Assessment Team	Date: 10-June-2024
<ol style="list-style-type: none"> 1) PP has incorporated the name of regional grid in Section A.1 of updated PDD: Version 02, dated 06-June-2024. 2) PP has provided GS4GG Cover Letter and ODA with the responses. <p>Hence, the finding is closed.</p>	

Finding No. 07	Date: 05-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	

Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
Geo coordinates provided in Updated PDD Version 01 dated 03-June-2024, do not show any solar panels on Google Earth software.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section A.2	
1st Response from PD	Date: 07/06/2024
The Geo-coordinates are updated as per actual case.	
Documents provided by PD for review	
1) PDD Version 2.0	
1st Review by Assessment Team	Date: 10-June-2024
Assessment team found that PP has updated the geo-coordinates in the updated PDD: Version 02, dated 06-June-2024 as per the actual project scenario. Hence, the finding is closed.	

Finding No. 08	Date: 05-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	

Non-Conformity	
It is unclear if the number of employees mentioned in SDG 8 (Section A.3) represents the current count or an annual estimate.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section A.3	
1st Response from PD	Date: 07/06/2024
This is annual estimation not actual numbers accordingly the statement is also revised in the section A.3 of the PDD.	
Documents provided by PD for review	
1) PDD version 2.0	
1st Review by Assessment Team	Date: 10-June-2024
PP has clarified that the number of employees mentioned in SDG 8 (Section A.3) represent the annual estimate. Hence, the finding is now closed.	

Finding No. 09	Date: 05-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
1) The details mentioned in column 'monitoring frequency' for SDG 8.5.1 and SDG 6.1 is not clear. 2) PP has not clarified if there is any policy/provision for employing female workers.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section B.7.1.	

1st Response from PD	Date: 07/06/2024
<ol style="list-style-type: none"> 1) Monitoring frequency SDG 8.5.1 and Safeguarding Principle 6.1 is updated. 2) Right now, there is no female employee is working at the project activity because the project is located in remote area and female employee are not preferring to work in remote areas but PD has No discrimination Policy and strictly following the same. The No discrimination Policy is submitted with the responses. 	
Documents provided by PD for review	
<ol style="list-style-type: none"> 1) PDD version 2.0. 2) No discrimination Policy 	
1st Review by Assessment Team	Date: 10-June-2024
<ol style="list-style-type: none"> 1) PP has revised the column 'Monitoring Frequency' for SDG 8.5.1 and Safeguarding Principle 6.1 in the updated PDD: Version 02, dated 06-June-2024. Hence, the finding is closed. 2) PP has clarified that there are no female employees currently working at the project site or in the project activity. However, PD is open to employee female workers and there is no discrimination based on gender. The same was also confirmed during remote interviews with PD. Hence, the finding is closed. 	

Finding No. 10	Date: 05-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input checked="" type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
The PP has left the 'Measurement methods and procedures' column empty in section B.7.2 of Updated PDD: Version 01 dated 03-June-2024. Additionally, as per the remote audit finding, PP did not provide the name of the third party contracted for hazardous waste collection and supporting evidence for the same.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section B.7.2.	
1st Response from PD	Date: 07/06/2024

The Measurement methods and procedures is added in the section B.7 of the PDD also the records and third-party contract are submitted with the responses.	
Documents provided by PD for review	
<ol style="list-style-type: none"> 1) PDD version 2.0 2) hazardous waste third-party contract 3) hazardous waste records 	
1st Review by Assessment Team	Date: 10-June-2024
<p>Assessment team found that the Measurement methods and procedures is added in the section B.7.2 of updated PDD: Version 02, dated 06-June-2024.</p> <p>Moreover, PP has also provided the details and records of third party contracted for waste handling in project activity.</p> <p>Hence, the finding is closed.</p>	

Finding No. 11	Date: 05-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input checked="" type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
<ol style="list-style-type: none"> 1) The PP has not provided complete clarity in the monitoring plan regarding: the SLD, detailing the number of blocks, ICR, inverters, and transformers in each block, as observed during the remote audit. 2) PP has not provided sample copies of Daily Generation Records. 	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section B.7.3.	
1st Response from PD	Date: 07/06/2024

1) The SLD is updated and the information of No. of blocks, ICR, investors and transformers are updated. 2) Sample copies of Daily Generation Records is submitted with the responses.	
Documents provided by PD for review	
1) PDD Version 2.0 2) Daily Generation Records.	
1st Review by Assessment Team	Date: 10-June-2024
1) PP has revised the SLD and added relevant details regarding No. of blocks, ICR etc. in the updated PDD: Version 02, dated 06-June-2024. The details are found to be correct as per the remote audit. 2) PP has provided the Daily Generation Records, which are found to be acceptable by assessment team.	
Hence, the finding is closed.	

Finding No. 12	Date: 05-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input checked="" type="checkbox"/>
On-site/remote/hybrid assessment	<input checked="" type="checkbox"/>
Technical Review	<input type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
Column 'Registration Number with relevant authority' in Appendix 2 of Updated PDD: Version 01 dated 03-June-2024 is left empty.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Appendix 2	
1st Response from PD	Date: 07/06/2024
Registration Number is incorporated in the Appendix 2 of the PDD and supporting document of the same is submitted with the responses.	
Documents provided by PD for review	

1) PDD version 2.0 2) COI document.	
1st Review by Assessment Team	Date: 10-June-2024
PP has updated the column ‘Registration Number with relevant authority’ in Appendix 2 of updated PDD: Version 02, dated 06-June-2024. Hence, the finding is closed.	

Finding No. 13 (Technical Review)	Date: 11-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input checked="" type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
PP has not included the project information in chronological order (including key activities, details of project, milestone achieved) in updated PDD: Version 01 dated 03-June-2024	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section A.1	
1st Response from PD	Date: 11/06/2024
The information on the key activities/details of the project milestone achieved in chronological order is incorporated in the section A.1 of the PDD.	
Documents provided by PD for review	
1) PDD version 3.0	
1st Review by Assessment Team	Date: 12-June-2024
It is found that PP has updated the section A.1 and incorporated all the details in chronological order in updated PDD: Version 03 dated 11-June-2024 which is found to correct. Hence, the finding is closed.	

Finding No. 14 (Technical Review)	Date: 11-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input checked="" type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
PP has not included the metering locations for the solar plant in the 'Simplified scheme of Solar PV system' in Updated PDD: Version 01 dated 03-June-2024.	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section A.3	
1st Response from PD	Date: 11/06/2024
The diagram mentioned in the section A.3 is updated and now the meter location is incorporated in the diagram also the meter location is mentioned in the same section.	
Documents provided by PD for review	
1) PDD version 3.0	
1st Review by Assessment Team	Date: 12-June-2024
It is found that PP has incorporated meter location in diagram of solar PV system in Section A.3 of updated PDD: Version 03 dated 11-June-2024. Hence, the finding is closed.	

Finding No. 15 (Technical Review)	Date: 11-June-2024
Finding Type- CAR <input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input checked="" type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 5.1.47	
Non-Conformity	
PP has not included grievance mechanism in Section E.2 of Updated PDD: Version 01 dated 03-June-2024	
Evidence	
Updated PDD: Version 01 dated 03-June-2024, Section E.2	
1st Response from PD	Date: 11/06/2024
Grievance Mitigation Mechanism is incorporated in the section E.2 of the PDD.	
Documents provided by PD for review	
1) PDD version 3.0	
1st Review by Assessment Team	Date: 12-June-2024
PP has incorporated Grievance Mitigation Mechanism in the section E.2 of updated PDD: Version 03 dated 11-June-2024.	
Hence, the finding is closed.	

Finding No. 16 (Technical Review)	Date: 11-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	

Desk Review	<input type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input checked="" type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
Template Guide- Project Design Document: Version 1.5 GS-Principle and Requirements: Version 1.2, para 4.1.51 and 4.1.53	
Non-Conformity	
<ol style="list-style-type: none"> 1) PP has not explained how project complies with relevant National policies/laws. PP has also not demonstrated assessment of present policies of Government of India and compliance of project with same. 2) PP has not demonstrated the ongoing financial needs to meet the requirements of GS-Principle and Requirements: Version 1.2, para 4.1.51 and 4.1.53 	
Evidence	
<ol style="list-style-type: none"> 1) Updated PDD: Version 01 dated 03-June-2024, Section B.4 2) Updated PDD: Version 01 dated 03-June-2024, Section B.5.2 	
1st Response from PD	Date: 11/06/2024
<ol style="list-style-type: none"> 1) There are no new relevant national and/or sectoral policies and/or circumstances in the electricity sector applicable to the Project Activity in India, in comparison to the time of the submission of the project activity for validation, which could impact the validity of the current baseline for the next crediting period. Therefore, the current baseline scenario does not need to be updated for this crediting period. Thus, the baseline scenario remains unchanged and is in compliance with all the relevant mandatory national and/or sectoral policies. The same is incorporated in the section. 2) Financial analysis calculation sheet for OFN is submitted with the responses along with the supporting documents of OFN and Information highlighting the key categories and amounts or relative proportions (%) of project income and outgoings, including the relative proportion of certification related cost and revenue are incorporated in the section B5.2 of the PDD. 	
Documents provided by PD for review	
<ol style="list-style-type: none"> 1) PDD version 3.0 2) OFN sheet 3) Supporting documents of OFN 	
1st Review by Assessment Team	Date: 12-June-2024
<ol style="list-style-type: none"> 1) PP has clarified that no new relevant national and/or sectoral policies and/or circumstances in the electricity sector applicable to the Project Activity in India. Therefore, there is no need to update the current baseline scenario for this CP. This is found to be correct. 2) PP has submitted the OFN sheet and supporting documents of OFN. PP has also incorporated the relevant information in updated PDD: Version 03 dated 11-June-2024. <p>Hence, the finding is closed.</p>	

Finding No. 17 (Technical Review)	Date: 11-June-2024
Finding Type- CAR <input type="checkbox"/> CL <input checked="" type="checkbox"/> FAR <input type="checkbox"/>	
Stage of finding raised:	
Desk Review	<input type="checkbox"/>
On-site/remote/hybrid assessment	<input type="checkbox"/>
Technical Review	<input checked="" type="checkbox"/>
Project Review Report by Registry	<input type="checkbox"/>
Requirement	
GS-Principle and Requirements: Version 1.2, para 4.1.51 and 4.1.53	
Non-Conformity	
<ol style="list-style-type: none"> 1) In the ER calculation spreadsheet (Sheet: CEA database version 19), The values for ‘Absolute emissions total (tCO₂)’ for the year 2019-20 and 2020-21 are not consistent with CEA Baseline data 2023. 2) In the ER calculation spreadsheet (Sheet: Emission Factor), Cells D19, E19 and F19 which are linked to external files couldn’t be cross checked. 	
Evidence	
<ol style="list-style-type: none"> 1) ER spreadsheet: Version 1 dated 03-June-2024, Sheet: CEA database version 19 2) ER spreadsheet: Version 1 dated 03-June-2024, Sheet: Emission Factor 	
1st Response from PD	Date: 11/06/2024
<ol style="list-style-type: none"> 1) The values are as per CEA data base 2019 please refer cell G29 and H29 of CEA data base of Results sheet. 2) The values are now internally linked but the value of CO2 emission factor is still same. 	
Documents provided by PD for review	
<ol style="list-style-type: none"> 1) PDD version 3.0 2) ER sheet 	
1st Review by Assessment Team	Date: 12-June-24
<ol style="list-style-type: none"> 1) The values in ER calculation sheet are found to be correct. 2) Values can be cross checked now and are found to be correctly mentioned in the ER sheet. <p>Hence, the finding is closed.</p>	

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