



Certification Pvt. Ltd.

VALIDATION REPORT

20 MW SOLAR PROJECT IN SANWREEJ, JODHPUR, RAJASTHAN

Project Title	20 MW Solar Project in Sanwreej, Jodhpur, Rajasthan
GS ID of Project	5575
Version of the Validation Report	04
Completion date of the Validation Report	07/10/2024
Date of Design Certification	11/07/2017
Version number of the corresponding Design Certification	NA
Project Representative	Infinite Environmental Solutions limited
Project Developer	Janardan Wind Energy Pvt. Ltd.
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 21.0
Product Requirements applied	GHG Emission Reduction & Sequestration
Project Cycle	Retroactive
Other Requirements applied	NA

VKU Project ID	VKU.VAL.04.23_GS_5575
Prepared By	VKU Certification Private Limited
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Work carried out by	Vivek Kumar Ahirwar – Team Leader and Sectoral Scope Expert T.A.1.2 KM Nisha Chauhan- Validator Verifier Trainee Komal Kumari- Project Trainee Sanjay Kumar – Technical Reviewer and Sectoral Scope Expert T.A.1.2

A. OBJECTIVE

Infinite Environmental Solutions Limited (Project Representative) and Janardan Wind Energy Pvt. Ltd. (Project Developer) has contracted VKU Certification Private Limited to conduct validation and certification for renewable of crediting period for the GS4GG project activity (GS_5575) “**20 MW Solar Project in Sanwreej, Jodhpur, Rajasthan**”.

The objective of this validation (RCP) is to have an independent third-party assessment of the GS4GG PDD and compliance with the GS requirements /5//6//7//8//9//10//11//12//13//14//15//16/ as described in the Gold Standard documentation and supporting documents provided by the project representative /25//26//27//28//29//30//31//32//33//34//35//36//37//38/. The Project Activity (GS_5575) 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 21.0 /18/. The project will replace anthropogenic emissions of greenhouse gases (GHG’s) estimated to be approximately 32,743 tCO₂e per annum during over the crediting period, thereon displacing 35,012.71MWh/year amount of electricity from the generation-mix of power plants connected to the NTPC Vidyut Vyapar Nigam (NVVN) Ltd, 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 21.0/18/.

The documents /1/ /2/ /3/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/ 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 /5/
- Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/
- CDM Validation and Verification standard for project activities; Version 3.0 /17/
- Renewable energy activity requirements; Version 1.4, dated: 16/08/2021 /13/
- GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /14/
- Safeguarding principles & requirements; Version 2.1, dated: 29/06/2023 /7/
- Stakeholder consultation and engagement requirements; Version 2.1, dated: 14/06/2022 /6/
- Design change requirements; Version 1.1, dated: 14/04/2023 /8/
- 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 /11/
- Validation & verification body requirements; Version 2.0, dated: 14/01/2021 /12/
- Template Guide: Key Project Information & Project Design Document (PDD) Version 1.4, dated 21/06/2023 /16/
- Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /15/
- ACM0002 “Grid-connected electricity generation from renewable sources” Version 21.0/18/
- Tool 1: Tool for the demonstration and assessment of additionality Version 07.0.0 /19/
- Tool 7: Tool to calculate the emission factor for an electricity system Version 07.0.0 /20/
- Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period Version 3.0.1 /21/
- CDM – CO₂ Baseline Database (CO₂ Baseline Database for Indian Power Sector); Version 19.0 /22/

- VKU QMS Procedures and SOPs – Internal procedural documents of VKU Certification Pvt. Ltd. /24/

Based on the recommendations in the GS4GG Validation and Verification Standard for Project Activities, Version 1.0/9/ 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 v1.0/9/, GS4GG principle and requirements v1.2/5/, the applicability conditions of the selected methodology /18/, 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 GS4GGG requirements, host country criteria and correctly applied the GS approved methodology /18/ and tools /19/ /20/ /21/.

D. VALIDATION CONCLUSION

VKU Certification Pvt. Ltd. has successfully completed the validation process for the GS Project Activity, namely the "**20 MW Solar Project in Sanwreej, Jodhpur, Rajasthan** " (GS_5575), as outlined in the Project Design Document (PDD) /01/ and supporting document /2/ /3/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/ /33/ /34/ /35/ /36/ /37/ /38/. The validation confirms that the project adheres to all relevant GS requirements for Project Activities, also compliance with methodologies, tools, guidelines, and Article 12 of the Kyoto Protocol.

The monitoring methodology ACM0002 “Grid-connected electricity generation from renewable sources” Version 21.0 has been appropriately applied to the project activity for the whole crediting period (5 years) and is deemed applicable/18/.

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: 20/07/2016 (Start date of the project activity is the date on which the first purchase order was realised)
- **1st Crediting period:** 30/03/2019 to 29/03/2024 (Including first date and last date).
- **2nd Crediting Period:** From 30/03/2024 to 29/03/2029 (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	32,941 tCO _{2e}	0 tCO _{2e}	32,941 tCO _{2e}
Year 2	32,842 tCO _{2e}	0 tCO _{2e}	32,842 tCO _{2e}

Year 3	32,744 tCO _{2e}	0 tCO _{2e}	32,744 tCO _{2e}
Year 4	32,645 tCO _{2e}	0 tCO _{2e}	32,645 tCO _{2e}
Year 5	32,547 tCO _{2e}	0 tCO _{2e}	32,547 tCO _{2e}
Total	163,719 tCO _{2e}	0 tCO _{2e}	163,719 tCO _{2e}
Annual Average over the crediting period	32,743 tCO _{2e}	0 tCO _{2e}	32,743 tCO _{2e}

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	<ol style="list-style-type: none"> 1. Training 2. Employees 3. Income (INR)

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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 "**20 MW Solar Project in Sanwreej, Jodhpur, Rajasthan " (GS 5575)** at villages of Sanwreej of Jodhpur district in the state of Rajasthan 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 NTPC Vidyut Vyapar Nigam (NVVN) Ltd, 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 32,743 tCO₂e per annum during over the crediting period, thereon displacing 35,012.71 MWh/year amount of electricity from the generation-mix of power plants connected to the NTPC Vidyut Vyapar Nigam (NVVN) Ltd, which is mainly dominated by thermal/ fossil fuel-based power plant.

The Project Activity employs the ACM0002., version 21: Grid-connected electricity generation from renewable sources. This CDM methodology is also approved under the Gold Standard. The project activity is a 20 MW solar power project, promoted by Janardan Wind Energy Pvt. Ltd. (JWEPL) and involves installation of 10 MW_{AC} (Project-I) & 10 MW_{AC} (Project-II), totaling to 20 MW_{AC} solar power project. Both the projects are installed in the same project boundary at Village: Sanwreej, Tehsil: Phalodi, District: Jodhpur, State: Rajasthan, Country: India. The electricity generated from the project activity is evacuated through 132 kV sub- station located at Sanwreej for consumption in the Indian Electricity Grid. The commissioning date of project activity for 10 MW (Project – I) is 30/03/2017 and 10 MW (Project – II) is 18/04/2017.

Commissioning date with Geo-coordinate of Project Activity:

Commissioning Part	Commissioning Date	Project Investors' Name	Plant capacity in AC	Plant capacity in DC	Longitude	Latitude
10 MW (Project – I)	30/03/2017	JWEPL	20 MW	22.5 MW	26°58'47"N	72°15'25"E

10 MW (Project -II)	18/04/2017					
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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 05, dated 23/09/2024 /1/ is as follows:

Sustainable Development Goals Targeted	SDG Impact	Estimated Annual Average	Unit or Products
SDG 13: Climate Action	Emission Reductions	32,743	GS-VERs
SDG 8: Decent Work and Economic Growth	Trainings	1	No. of Trainings/year
	Employee	15	No. of Jobs
SDG 7: Affordable and Clean Energy	MWh of renewable energy generated	35,012.71	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 project had prior registered in CDM registry and Project ID is 10392 now transition has to be done from CDM to GS4GG and same information assessment team confirm from Transition Request Form/39/ which is available on GS website. For this, Project representative has provided declaration for not participation and rejection in other GHG program/30/ Same information was also checked from the CDM registry along with another registry.

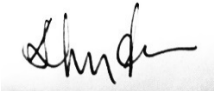

2 VALIDATION TEAM, TECHNICAL REVIEWER AND APPROVER

2.1 Validation team member

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

S.No.	Role	Type of Resource	Last Name	First Name	Affiliation (e.g., name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk Review	Remote-site	Interview	Validation Finding
1.	Team Leader	ER (External Resource)	Kumar Ahirwar	Vivek	Outsourced Entity	Y	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)	Kumari	Komal	VKU Certification Private Limited	Y	Y	N	N

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)	Kumar	Sanjay	Outsourced Entity	
2.	Approver	ER (External Resource)	Kumar	Sanjay	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 04/01/2024 Version 02, dated 01/02/2024 Version 03, dated 04/03/2024 Version 04, dated 03/07/2024 Version 05, dated 23/09/2024	Infinite Environmental Solutions Limited
2	Infinite Environmental Solutions Limited	ER Sheet	Version 01, dated 04/01/2024 Version 02, dated 01/02/2024 Version 03, dated 03/07/2024	Infinite Environmental Solutions Limited
3	Infinite Environmental Solutions Limited	CDM Project Design Document (PDD)	Version 03, dated 11/07/2017	Infinite Environmental Solutions Limited
4	Gold Standard for the Global Goals	GS Passport	Version 03, date 28/02/2018	Available on GS website
5	GS4GG	<u>Principles and Requirements</u>	Version 1.2, dated: 23/10/2019	Publicly Available on GS4GG Webpage
6	GS4GG	<u>Stakeholder consultation and</u>	Version 2.1, dated: 14/06/2022	Publicly Available on

		<u>engagement requirements</u>		GS4GG Webpage
7	GS4GG	<u>Safeguarding principles & requirements</u>	Version 2.1, dated: 29/06/2023	Publicly Available on GS4GG Webpage
8	GS4GG	<u>Design change requirements</u>	Version 1.1, dated: 14/04/2023	Publicly Available on GS4GG Webpage
9	GS4GG	<u>Validation and verification standard</u>	Version 1.0, dated: 06/03/2023	Publicly Available on GS4GG Webpage
10	GS4GG	<u>Site visit and remote audit requirements and procedures</u>	Version 2.0, dated: 30/05/2023	Publicly Available on GS4GG Webpage
11	GS4GG	<u>Applicability of minimum site visit requirement by VVB</u>	Version 2.0, dated: 16/08/2021	Publicly Available on GS4GG Webpage
12	GS4GG	<u>Validation & verification body requirements</u>	Version 2.0, dated: 14/01/2021	Publicly Available on GS4GG Webpage
13	GS4GG	<u>Renewable energy activity requirements</u>	Version 1.4, dated: 16/08/2021	Publicly Available on GS4GG Webpage
14	GS4GG	<u>GHG Emissions Reduction & Sequestration Product Requirements</u>	Version 2.2, dated: 28/08/2023	Publicly Available on GS4GG Webpage
15	GS4GG	<u>Gold standard eligible impact quantification methodologies</u>	Version 2.4, dated: 22/06/2023	Publicly Available on GS4GG Webpage

16	GS4GG	<u>Template Guide: Key Project Information & Project Design Document (PDD)</u>	Version 1.4, dated 21/06/2023	Publicly Available on GS4GG Webpage
17	CDM	<u>CDM Validation and Verification standard for project activities</u>	Version 3.0	Publicly Available on CDM Webpage
18	CDM	<u>ACM0002:Grid-connected electricity generation from renewable sources</u>	Version 21.0	Publicly Available on CDM Webpage
19	CDM	<u>Tool 1: Tool for the demonstration and assessment of additionality</u>	Version 07.0.0	Publicly Available on CDM Webpage
20	CDM	<u>Tool 7: Tool to calculate the emission factor for an electricity system</u>	Version 07.0.0	Publicly Available on CDM Webpage
21	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
22	Central Electricity Authority, Ministry of Power	<u>CDM – CO₂ Baseline Database (CO₂ Baseline Database for Indian Power Sector)</u>	Version 19.0	Publicly Available
23	ISO	<u>Standards: ISO 14064-2:2019 & ISO 14064-3:2019</u>	31-/05/-2019	-
24	VKU Certification Pvt. Ltd.	QMS Procedures and SOPs	N/A	VKU Certification Pvt. Ltd.

25	Darsh Calibrations Pvt. Ltd.	Certificate of calibration; Issued by Darsh Calibrations Pvt. Ltd.	Certificate No. DCPL/CAL/19-20/306, DCPL/CAL/19-20/308	Infinite Environmental Solutions Limited
26	Rajasthan Renewable Energy Corporation Limited	Minutes of Meeting (MOM) Commissioning Certificate for 10 MW (Project – I)	Date: 30/03/2017	Infinite Environmental Solutions Limited
		Minutes of Meeting (MOM) Commissioning Certificate for 10 MW (Project – II)	Date: 18/04/2017	
27	Power Consultation	Employment Records 1. Employment Generation Details 2. Attendance Register 3. Salary Slips	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
28	Janardan Wind 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
29	Janardan Wind Energy Private Limited	O&M Agreement between IBC Solar Private Limited and Janardan Wind Energy Private Limited	Dated: 25/11/2016	Infinite Environmental Solutions Limited
30	Janardan Wind Energy Pvt. Ltd.	Declaration- • ODA (Official Development Association)	15/01/2024	Infinite Environmental Solutions Limited

		<ul style="list-style-type: none"> • No Participation under other GHG Program • Not Rejected by any other GHG Program • No Double counting for GS_VERs <p>For this whole crediting period</p>		
31	Janardan Wind Energy Pvt. Ltd.	Invoices	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
32	NTPC Vidyut Vyapar Nigam (NVTN) Ltd.	JMR	- 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
33	Government of National Capital Territory of Delhi	Power Purchase Agreement (PPA) between Janardan Wind Energy Pvt. Ltd. and NTPC Vidyut Vyapar Nigam (NVTN) Ltd.	Dated: 16/06/2016	Infinite Environmental Solutions Limited
34	Sustain-cert Portal	Screen Short of first submission of document	Dated: 13/09/2019	Infinite Environmental Solutions Limited
35	GS4GG	Cover Letter	Dated: 08/12/2023	Infinite Environmental Solutions Limited

36	TATA POWER 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
37	Janardan Wind Energy Pvt. Ltd.	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
38	Janardan Wind Energy Pvt. Ltd.	Hazardous Waste Register	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
39	GS4GG	Transition Request Form	N/A (AT has cross checked the transition Request Form provided by PD.	Available on GS4SS
40	Google Inc.	<u>Google Earth Pro</u>	N/A	Publicly Available
41	-	<u>GPS Map Camera</u>	N/A	Publicly Available
42	VKU Certification	VKU.24W.Audit and Sampling Plan	VKU.F24W. Audit and Sampling Plan_VKU.VAL.04.23.GS_5575	VKU Certification
43	VKU Certification	VKU.F46W. Attendance Sheet for Audit	VKU.F46W. Attendance Sheet for Audit_VKU.VAL.04.23.GS_5575	VKU Certification
44	VKU Certification	Screenshots taken during remote audit	On 09/01/2024	VKU Certification

3.2 Remote Inspection

VKU Certification Pvt. Ltd. has conducted remote audit on 09/01/2024 for validation (RCP) of this project activity following the GS4GG Site visit and remote audit requirements and procedures /10/ and Applicability of minimum site visit requirement by VVB /11/. The details of activities performed during remote audit, site location, date and involved team members are mentioned below:

Duration of Remote Inspection				
No.	Activity Performed on remote audit	Site Location	Date	Team Member
1.	<p>During Remote activity the following Activities are performed during audit.</p> <ul style="list-style-type: none"> -Opening Meeting: Introduction, scope and objective of work, roles and responsibilities of audit team. - 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) - Project Activity (Technology, Location and Implementation) - 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 	<p>Village: Sanwreej, Tehsil: Phalodi, District: Jodhpur, State: Rajasthan</p>	09/01/2024	Vivek Kumar Ahirwar

	- Grievance Redressal Mechanism (ongoing communication procedure with relevant local stakeholder) - Interview of relevant Local Stakeholders			
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3.3 Interview

All the interviews conducted during remote audit for validation of this project activity as recorded in VKU.F46W. Attendance Sheet for Audit_VKU.VAL.04.23.GS_5575 /43/ is listed below:

No.	Interviewee			Date	Subject	Team Member
	Last Name (Gender)	First Name	Affiliation			
1.	Homor (Male)	Kapil	JWEPL, O&M Manager	09/01/2024	Working of the project Baseline scenario	Vivek Kumar Ahirwar
2.	-(Male)	Motilal	JWEPL, Site In-charge		Implementati on status of the project	
3.	-(Male)	Ramraj	JWEPL, Executive		Power Purchase agreement	
4.	Mondal (Male)	Abhishek	Infinite Environmental Solution Ltd. Analyst		Benefits of the project	
5.	Gupta (Male)	Rajeev	Infinite Environmental Solution Ltd. Senior Analyst		Location of implemented meters	

					Trainings mechanism QA/QC procedure Emergency Procedure Grievance mechanism Roles and responsibility of Job	
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No.	Interviewee			Date	Subject	Team Member
	Last Name	First Name	Affiliation			
1.	Singh (Male)	Sumer	Local Stakeholder	09/01/2024	Baseline scenario	Vivek Kumar Ahirwar
2.	-(Male)	Shri Ram	Local Stakeholder		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 GS4GG Principles & Requirements are as follows:

Eligibility Criteria	Description	Justification by PD	VKU Assessment
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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 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 /26/ and The Power purchase agreement between Project Proponent and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/
Location of Project:	The Project activity is located Village: Sanwreej, Tehsil: Phalodi, District: Jodhpur, State: Rajasthan. Further details have been provided in section A.2 of the PDD /1/	The Power purchase agreement between Project Proponent and NTPC Vidyut Vyapar Nigam (NVVN) Ltd.	Assessment team confirms that this project activity is located in Village: Sanwreej, Tehsil: Phalodi, District: Jodhpur, State: Rajasthan on the basis of location mentioned in Commissioning Certificate /26/, The Power purchase agreement between Project Proponent and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/ and remote audit.
Project Area, Project Boundary and Scale:	Project Area and Boundary are defined in line with the applicable Methodology ACM0002 Version 18 The project activity includes 20 MW installed capacity and is Large Solar power plants with an installed capacity	Please refer section A.4.4 of PDD/1/ for the Geographical coordinates. The project has an install capacity of 20 MW which is more than 15 MW, therefore applies as a	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

	above 15 MW to be qualified as a large-scale solar plant (in accordance with UNFCCC rules).	Large-Scale project. See section A.1 of the PDD /1/	<p>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 Integrated grid have been considered in the project boundary. Assessment team confirms that project area and project boundary is in line with the applied Methodology ACM0002; Version 21.</p> <p>Assessment team confirms that it is a large-scale project activity as per the GHG Emissions Reduction & Sequestration Product Requirements /14/</p>
Host Country Requirements:	The project activity follows the social wellbeing, Environmental wellbeing, Economic wellbeing and Technological wellbeing.	<p>Projects is in compliance with India's legal, environmental, ecological and social regulations.</p> <p>The Host Country Approval from Ministry of Environment, Forest and Climate Change (MoEF & CC) has been submitted to the VVB.</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 and Approval from Ministry of Environment, Forest and Climate Change (MoEF & CC) Assessment submitted by the PD.</p>

Contact Details:	Project Participant: Janardan Wind Energy Pvt. Ltd. (JWEPL) Name of the contact person: Mr. Rohan Jhavar Email: rjhavar@lnbgroup.com	GS4GG-Cover Letter	Assessment team confirms that the contact details are correct as per the GS4GG cover letter /35/ 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 Janardan Wind Energy Pvt. Ltd. (JWEPL) of this project activity as per GS4GG Cover Letter /35/, Commissioning Certificate /26/ The Power purchase agreement between Project Proponent and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/. Hence, Janardan Wind Energy Pvt. Ltd. (JWEPL) 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 Assistance (ODA) involved in the project activity.	The Project Owner declares that the project has not directly or indirectly received or benefited from official development assistance. An Official Development Assistance (ODA) declaration i.e., GS Annex D) has been submitted to VVB.	Assessment team confirms that this project activity has not received funding from Annex 1 countries as per the interview conducted during remote audit and ODA declaration /30/ given by PD.

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

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

		PD has also submitted a declaration which states that this project activity has neither applied or registered to claim REC benefits under any other GHG Mechanism nor it is rejected by any other GHG program. /30/
5. Demonstrate the activity is NOT located in a host country, region, locality or state that has an emission reduction cap enforced OR has the possibility to trade emissions that include the scope of the proposed project	The host country for project activity is India which is a non-annex I Country. Hence, no emission reduction cap enforced as well as no emission trading system implemented in the host country.	Assessment team confirms that this project activity is implemented in Jodhpur, Rajasthan 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 /26/, The Power purchase agreement between Project Proponent and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/ and the remote audit.
6. Demonstrate that no potential for double counting of impacts if the Project Area overlaps with that of another Gold Standard or other voluntary or compliance standard programme of a similar nature.	The Project is not registered in any other mechanism. Also, self-declaration for no double counting has been provided by the PD.	Assessment team has cross-checked the following registries: 1) http://cdm.unfccc.int/ 2) https://www.recregistryindia.nic.in/ 3) https://verra.org/verra-standards-and-programs/ 5) https://www.ircstandard.org/ 6) https://cri.nccf.in/ 7) International Carbon Registry 8) GCC Projects Portal

		This project activity is not registered in any of the above registries, hence, the potential for double counting of impacts is zero. PD has also submitted a declaration /30/ which states that this project activity has neither applied or registered to claim REC benefits under any other GHG Mechanism nor it is rejected by any other GHG program and confirms that there would not be any double counting of the SDG Impacts.
7. Demonstrate that the project is in compliance with applicable Host Country's legal, environmental, ecological and social regulation.	The project activity has obtained all the authorities' approvals to comply with legal, environmental, ecological and social regulations before the implementation.	Assessment team confirms that this project activity complies with India's legal, environmental, ecological and social regulations as per the interview conducted during remote audit and Approval from Ministry of Environment, Forest and Climate Change (MoEF & CC) Assessment submitted by PD.

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 /26/ and Power Purchase Agreement (PPA) between Janardan Wind Energy Pvt. Ltd. and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/.

Project Location:	The project is located in district Jodhpur state Rajasthan of India.	Assessment team confirms that this project activity is located in in Village: Sanwreej, Tehsil: Phalodi, District: Jodhpur, State: Rajasthan on the basis of location mentioned in Commissioning Certificate /26/, and Power Purchase Agreement (PPA) between Janardan Wind Energy Pvt. Ltd. and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/ and remote audit.
Project Scale	The project activity includes 20 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 /14/ -</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 /13/ 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 20 MW that is more than 15 MW hence, it comes</p>

		under large scale project activity.
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4 VALIDATION FINDINGS

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 **07** findings were raised, which includes: **04 Corrective Action Requests (CARs)**; **03 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: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024 ,Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and previously registered CDM Project Design
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	Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	CL#01 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that purpose and general description of project mentioned in Section A.1 of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/ is correct and it complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/, previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and fulfils the requirements of Gold Standard for Global Goals.

4.1.1 Identification of project type

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024 ,Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were raised for the identification of project type.
Conclusion	Assessment Team confirms that it is a renewable energy project as mentioned in Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/ and it is correct as per previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/, Commissioning Certificate issued by Rajasthan Renewable Energy Corporation Limited /26/, Power Purchase Agreement (PPA) between Janardan Wind Energy Pvt. Ltd. and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/. And Technical Details of the Solar panel /36/.

4.1.2 Eligibility of the project under Gold Standard

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024,Version 04, dated 03/07/2024 Final Key Project Information & Project Design
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	Document (PDD); Version 05, dated 23/09/2024 1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and remote audit.
Findings	CL#01 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	Assessment Team confirms that this project is eligible under Gold Standard as mentioned in Section A.1.1: Eligibility of the project under Gold Standard, of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/ and it complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/, GS4GG Principles and Requirements; Version 1.2, dated: 23/10/2019 /5/, GS4GG Renewable energy activity requirements; Version 1.4, dated: 16/08/2021 /13/ and Gold standard eligible impact quantification methodologies Version 05, dated 30/12/2019 /15/.

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

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024 Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were 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 05, dated 23/09/2024 1/ is correct and Janardan Wind Energy Pvt. Ltd. is the legal owner of products generated by the project, previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ Commissioning certificate/26/

	PPA /33/ and GS4GG cover letter /35/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.
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4.1.4 Location of Project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024 Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 03, dated 11/07/2017 /3/and remote audit.
Findings	CAR#01 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 05, dated 23/09/2024 /1/is correct as per Commissioning Certificate issued by Rajasthan Renewable Energy Corporation Limited /26/, Power Purchase Agreement (PPA) between Janardan Wind Energy Pvt. Ltd. and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/ and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/

4.1.5 Technologies and /or measures

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024,Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project
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	Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	CAR#01 and CL#01 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 05, dated 23/09/2024 /1/ is correct as per Commissioning Certificate of Rajasthan Renewable Energy Corporation Limited/26/ and Technical Specification of Solar panel /36/ and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.1.6 Scale of Project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024 ,Version 04, dated 03/07/202 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/and remote audit.
Findings	No any findings were raised for scale of the project.
Conclusion	Assessment Team confirms that the project has an installed capacity of 20 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 05, dated 23/09/2024 /1/and it is correct as per Commissioning Certificate issued by Rajasthan Renewable Energy Corporation Limited /26/, Power Purchase Agreement (PPA) between Janardan Wind Energy Pvt. Ltd. and NTPC Vidyut Vyapar Nigam (NVVN) Ltd /33/ and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/. It complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4,

	dated 21/06/2023 /16/ and GS4GG GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /14/.
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4.1.7 Funding sources of project

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024 , Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were raised for funding sources of project.
Conclusion	Assessment Team confirms that no public funding from Annex 1 countries and no diversion of Official Development Assistance (ODA) /30/ is involved in this project activity as mentioned in Section A.5 of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/. It is correct as per declaration given by the project developer and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2 Application and selection of methodologies and standardized baselines

4.2.1 Reference of approved methodology(ies)

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final
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	ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and remote audit.
Findings	No any findings were raised for reference of approved methodology.
Conclusion	<p>Assessment Team confirms that methodology /18/ and tools /19/ /20/ /21/ mentioned in Section B.1 of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /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 21.0/18/ <ol style="list-style-type: none"> 1. Tool 1: Tool for the demonstration and assessment of additionality; Version 07.0.0 (EB 70, Annex 08) /19/ 2. Tool 7: Tool to calculate the emission factor for an electricity system; Version 07.0.0 (EB 100, Annex 4) /20/ 3. Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period; Version 3.0.1 (EB 66, Annex 47) /21/ <p>It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/, Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /15/, GHG Emissions Reduction & Sequestration Product Requirements, Version 2.2, dated: 28/08/2023 /14/ 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 1.4, dated 21/06/2023 /16/.</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: 04/01/2024, Version 02,
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	dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were raised for Applicability of methodology (ies) and standardized baselines.
Conclusion	Assessment Team confirms that the applicability criterion of methodology /18/ and tools /19/ /20/ /21/ as mentioned in Section B.1 the Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/ is correct and this project activity fulfils all the requirements of GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/ Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /15/, GHG Emissions Reduction & Sequestration Product Requirements; Version 2.2, dated: 28/08/2023 /14/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2.3 Deviation from methodology and/or methodology tool

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024 ,Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were raised for Deviation from methodology and/or methodology tool.

Conclusion	<p>Assessment Team confirms that methodology and tools mentioned in Section B.1 of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/ is the latest one and these are as follows:</p> <p>Methodology: ACM0002: Grid-connected electricity generation from renewable sources - Version 21.0/18/</p> <ol style="list-style-type: none"> 1. Tool 1: Tool for the demonstration and assessment of additionality; Version 07.0.0 (EB 70, Annex 08) /19/ 2. Tool 7: Tool to calculate the emission factor for an electricity system; Version 07.0.0 (EB 100, Annex 4) /20/ 3. Tool 11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period; Version 3.0.1 (EB 66, Annex 47) /21/ <p>It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/, Gold standard eligible impact quantification methodologies; Version 2.4, dated: 22/06/2023 /15/, GHG Emissions Reduction & Sequestration Product Requirements, Version 2.2, dated: 28/08/2023 /14/. It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/. No any deviation is found either in methodology /18/ or tools /19/ /20/ /21/used in the Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/.</p>
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4.2.4 Project Boundary, sources and GHGs

Means of Validation	<p>Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project</p>
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	Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were 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 05, dated 23/09/2024 /1/ is correct as per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 21.0/18/, GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/ and also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2.5 Establishment and description of baseline scenario

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and previously registered Key Project Information & Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were raised for Establishment and description of baseline scenario.
Conclusion	Assessment Team confirms that the baseline scenario established in Section B.4 of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /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 /21/, para 24 of the applied methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 21.0 /18/ and GS4GG Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/. The baseline emission factor is calculated as per the latest CDM – CO2 Baseline Database; Version 19.0 /22/ released by Central Electricity Authority, Ministry of Power, GoI, available at the time of Key

Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/ submission for renewal. The OM, BM & CM of the INDIAN grid used for the project activity is as follows:

Parameter	Value	Nomenclature	Source
EF _{grid,OM,y}	0.9580 tCO ₂ /MWh	Operating margin CO ₂ emission factor for the project electricity system in year y	Calculated as the last 3-year (2020-21, 2021-22 and 2022-23) generation-weighted average, sourced from Baseline CO ₂ Emission Database; Version 19.0 /22/, December 2023 published by Central Electricity Authority (CEA), Government of India
EF _{grid,BM,y}	0.8670 tCO ₂ /MWh	Build margin CO ₂ emission factor for the project electricity system in year y	Baseline CO ₂ Emission Database; Version 19.0 /22/, December 2023 published by Central Electricity Authority (CEA), Government of India
EF _{grid,CM,y}	0.9352 tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity	Calculated as the weighted average of the operating margin (0.75) & build margin (0.25) values,

			system in year y	sourced from Baseline CO ₂ Emission Database; Version 19.0 /22/, December 2023 published by Central Electricity Authority (CEA), Government of India
	<p>It also complies with the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.</p>			

4.2.6 Demonstration of additionality

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/and remote audit.
Findings	No any findings were raised for Demonstration of Additionality.
Conclusion	It is a retroactive project and already registered under gold standard. Assessment Team confirms that this project is additional as per Tool 1: Tool for the demonstration and assessment of additionality; Version 07.0.0 (EB 70, Annex 08) /19/. It also complies with GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/ and the guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.2.7 Prior Consideration

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No any findings were raised.
Conclusion	The project is undergoing renewal of crediting period. Hence prior consideration not required.

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

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.								
Findings	CL#02 and CAR#01 was raised and closed successfully. For more details, please refer Appendix 3.								
Conclusion	PD has considered 3 SDGs under this project activity. The Sustainable Development Goals targeted, their most relevant SDG targets and SDG impacts are mentioned below:								
	<table border="1"> <thead> <tr> <th>Sustainable Development Goals Targeted</th> <th>Most Relevant SDG Target</th> <th>SDG Impact</th> </tr> </thead> <tbody> <tr> <td>SDG 13: Climate Action</td> <td>Integrate climate change measures into national policies, strategies and planning</td> <td>Emissions Reductions in tCO₂</td> </tr> </tbody> </table>	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		
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 (INR)
	SDG 7: Affordable and Clean Energy	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	MWh of renewable energy generated .

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

SDG 7: Affordable and Clean Energy

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	0	35,223.42 MWh	35,223.42 MWh
Year 2	0	35,117.75 MWh	35,117.75 MWh
Year 3	0	35,012.39 MWh	35,012.39 MWh
Year 4	0	34,907.35 MWh	34,907.35 MWh
Year 5	0	34,802.63 MWh	34,802.63 MWh

SDG 8: Decent Work and Economic Growth

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

SDG 13: Climate Action			
YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
Year 1	32,941 tCO ₂ e	0 tCO ₂ e	32,941 tCO ₂ e
Year 2	32,842 tCO ₂ e	0 tCO ₂ e	32,842 tCO ₂ e
Year 3	32,744 tCO ₂ e	0 tCO ₂ e	32,744 tCO ₂ e
Year 4	32,645 tCO ₂ e	0 tCO ₂ e	32,645 tCO ₂ e
Year 5	32,547 tCO ₂ e	0 tCO ₂ e	32,547 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 05, dated 23/09/2024 /1/ is correct as per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources - Version 21.0/18/ and it complies with the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/ and guidelines mentioned in the template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.4 Monitoring Plan

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, ER Sheet; Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024 Final ER Sheet; Version 03, dated 03/07/2024/2/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	CAR#02 was raised and closed successfully. For more details, please refer Appendix 3.

Conclusion	As part of monitoring plan, these are the following data/parameters which will be monitored under 3 SDGs (SDG 7, SDG 8 & SDG 13):	
	SDG 7: Affordable and Clean Energy	
	Data / Parameter	$EG_{PJ,y}$
	Unit	MWh/Year
	Description	Quantity of net electricity supplied to the grid during the year y.
	Source of data	Monthly Meter Reading Reports (separately for each individual 10 MW (Project-I and Project-II))
	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 3 years as per CEA guidelines.</p> <p>The Net electricity supplied to the grid by the project activity will be calculated as a difference of electricity exported to the grid, electricity imported from the grid obtained from Monthly Meter reading reports provided by State Electricity Board as per below equation:</p> $EG_{PJ,y} = EG_{Export} - EG_{Import}$ <p>Cross Checking: Quantity of net electricity supplied to the grid will be cross checked from the Invoices/ Monthly Bill raised by the Project Participant to the NTPC.</p>
Monitoring frequency	<p>Measurement: Continuous</p> <p>Recording: Monthly</p> <p>Monitoring Method: recording in JMR (Join Meter Reading)</p>	

		The JMR includes monthly recording of electricity export & import. Energy meters of accuracy class 0.2s.
	QA/QC procedures	Quantity of net electricity supplied to the grid will be cross checked from the invoices/monthly bills raised by the project developer to NTPC. Calibration of all the meters will be undertaken once in 5 years as per CEA guidelines and faulty meters will be duly replaced immediately. The meters will be of accuracy class 0.2s.
	SDG 8: Decent Work and Economic Growth	
	Data Parameter	Quantitative employment Quality of employment
	Unit	Number (employees) Number (Trainings)
	Description	<ul style="list-style-type: none"> • Number of project employees with Number of male/female, permanent/temporary, age and person with disabilities. • Number of Trainings provided to employees & O&M staff
	Source of data	<ul style="list-style-type: none"> • Employee Records • Training Records (HSE & HR)
	Measurement methods and procedures	Employee Records Training Records (HSE & HR)
	Monitoring frequency	Once in a year
	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 3 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. And if the calibration is delayed, the error factor will be applied as per the accuracy class of the energy meter for the delayed period at the time of verification.
<p>Assessment Team confirms that the monitoring plan mentioned in Section B.7 of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 Version 05, dated 23/09/2024 /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 03, dated 11/07/2017 /3/ and it also complies with the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/ and guidelines mentioned in the template guide of Key Project Information &</p>		

	Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.
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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: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	CAR#01 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	<p>Assessment Team confirms that start date of this project activity is 20/07/2016 and it is correct as per the supporting document i.e., Work order for civil work for solar photovoltaic power plant and GS Passport /4/ and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/.</p> <ol style="list-style-type: none"> The 2nd crediting period for this project activity as mentioned in section C.2 of Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 Version 05, dated 23/09/2024 is from 30/03/2024 to 29/03/2029 (Inclusive of both dates). It is renewable and length of this crediting period is 5 years. It is correct as per the GS4GG Validation and verification standard Version 1.0, dated: 06/03/2023 /9/.

4.6 Environmental Impacts

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	No findings were raised.

Conclusion	Assessment Team confirms that this project activity does not harm environment as mentioned in Appendix-1: Safeguarding Principles Assessment of Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/. It is correct as per the Environment and Social Impact Assessment.
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4.7 Local Stakeholder Consultation

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and remote audit.
Findings	CAR#03 was raised and closed successfully. For more details, please refer Appendix 3.
Conclusion	For continuous input or to record ongoing communication with local stakeholders a grievance register /37/ is available at the project site office of Janardan Wind Energy Pvt. Ltd. at Village: Sanwreej, Tehsil: Phalodi, District: Jodhpur, Rajasthan state of India. It is permanently available to local stakeholders. It is correct as per the actual site scenario and complies with GS4GG Principles and Requirements; Version 1.2, dated: 23/10/2019 /5/, Validation and verification standard; Version 1.0, dated: 06/03/2023 /9/, guidelines of template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.

4.8 Global Stakeholder Consultation

Means of Validation	Desk Review of Key Project Information & Project Design Document (PDD); Version 01, dated: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/and remote audit.
Findings	No findings were raised.

Conclusion	<p>The project activity was earlier registered in CDM and transition has been done from CDM to GS4GG. Only GS4GG for CER labelling and seek to move to GSVER stream to issue Gold Standard VERs. 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.</p> <p>Also, PD had conducted a physical Stakeholder consultation meeting on 11/07/2016 at Khasra No.283, Village: Sanwreej, Tehsil: Phalodi, District: Jodhpur, Rajasthan. All the stakeholders were invited through public notice (dated 20/06/2016) which were displayed/placed to the nearby areas and Email invitations were sent to NGO's and MoEFCC, while Individual Invitations were sent to all other stakeholders as identified above apart from individual invitations public notices were put up at plant site, Local School in the village, at the Sub-station and other public areas of nearby village.</p> <p>There are no explicit guidelines in GS4GG that mandate the preparation and submission of separate Local Stakeholder Consultation (LSC) or Stakeholder Feedback Round (SFR) reports specifically for the renewal of the crediting period. Instead, the initially registered Project Design Document (PDD) data can be used for the renewal process. This implies that the initial stakeholder consultation data remains valid and applicable throughout the project's lifecycle, including during the crediting period renewal.</p> <p>Assessment team confirms that the stakeholder consultation mentioned in section E of Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/ is correct as per the previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /3/ and fulfils the GS4GG principles and requirements /5/ and also complies with the guidelines of template guide of Key Project Information & Project Design Document (PDD); Version 1.4, dated 21/06/2023 /16/.</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: 04/01/2024, Version 02, dated 01/02/2024, Version 03, dated 04/03/2024, Version 04, dated 03/07/2024 Final Key Project Information & Project Design Document (PDD); Version 05, dated 23/09/2024 /1/, supporting documents (Section 3.1) and previously registered CDM Project Design Document (PDD); Version 03, dated 11/07/2017 /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 05, dated 23/09/2024 /1/ and the summary of safeguarding principles that be monitored is summaries as follows:</p> <table border="1" data-bbox="673 779 1453 1871"> <thead> <tr> <th data-bbox="673 779 771 869">S. No.</th> <th data-bbox="773 779 938 869">Principles</th> <th data-bbox="940 779 1453 869">Mitigation measures added to the monitoring plan</th> </tr> </thead> <tbody> <tr> <td data-bbox="673 871 771 1087">1.</td> <td data-bbox="773 871 938 1087">Principle 6.1: Labor Rights</td> <td data-bbox="940 871 1453 1087">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 data-bbox="673 1089 771 1350">2.</td> <td data-bbox="773 1089 938 1350">Principle 9.5 Hazardous and Non-hazardous Waste</td> <td data-bbox="940 1089 1453 1350">The waste is disposed to the waste handlers and the firm complies with all the local laws for monitoring and disposal.</td> </tr> <tr> <td data-bbox="673 1352 771 1871">3</td> <td data-bbox="773 1352 938 1871">Principle 3.8 Achieve universal health coverage, including financial risk protection, access to quality essential</td> <td data-bbox="940 1352 1453 1871">The Project Developer has focused on projects leading to improvement of basic education, health, improve quality of life and basic infrastructural improvement projects to facilitate human and institutional capacity development.</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 Waste	The waste is disposed to the waste handlers and the firm complies with all the local laws for monitoring and disposal.	3	Principle 3.8 Achieve universal health coverage, including financial risk protection, access to quality essential	The Project Developer has focused on projects leading to improvement of basic education, health, improve quality of life and basic infrastructural improvement projects to facilitate human and institutional capacity development.
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 Waste	The waste is disposed to the waste handlers and the firm complies with all the local laws for monitoring and disposal.													
3	Principle 3.8 Achieve universal health coverage, including financial risk protection, access to quality essential	The Project Developer has focused on projects leading to improvement of basic education, health, improve quality of life and basic infrastructural improvement projects to facilitate human and institutional capacity development.													

		health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all.	
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5 INTERNAL QUALITY CONTROL

The draft validation report has undergone an Independent technical review and quality review before being submitted to the project representative/coordinating managing entity and GS4GG registry. A technical reviewer qualified in accordance with VKU Certification Private Limited., qualification scheme for GS4GG validation and verification performed the technical review.

The technical review process may accept or reject the validation opinion or raise additional findings in which case these must be resolved before submission to project representative/ coordinating managing entity. The technical review process is recorded in the internal documents of VKU Certification Private Limited, and the additional findings get included in the report. The final report approved by the technical reviewer and is authorized by Director.

6 VALIDATION OPINION

VKU Certification Pvt. Ltd. is contracted by Janardan Wind Energy Pvt. Ltd. (Project Developer) and Infinite Environmental Solutions limited (Project Representative) for validation (RCP) of the project activity “**20 MW Solar Project in Sanwreej, Jodhpur, Rajasthan**” (GS 5575) for 2nd crediting period from 30/03/2024 to 29/03/2029 (Inclusive of both dates).

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

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

The review of the final Key Project Information and Project Design document (PDD)/1/ and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline. The 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 21.0 /18/ and meets all relevant criteria therein. The monitoring arrangements described in the monitoring plan are feasible within the project, and it is validation team's opinion that the project developer is able to implement the monitoring plan and it is deemed likely that the forecasted emission reductions of 32,743 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 04 CARs and 03 CLs 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 **“20 MW Solar Project in Sanwreej, Jodhpur, Rajasthan” (GS 5575)** 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 30/03/2024 to 29/03/2029 (Inclusive of both dates).

7 MATERIALITY AND LEVEL ASSURANCE APPLIED

7.1 Materiality

As per the ISO 14063-3:2019 /23/, VKU validation team has applied materiality thresholds for the purpose to reach at the conclusion on the GHG statement about the estimated SDG Impacts due to the project activity “20 MW Solar Project in Sanwreej, Jodhpur, Rajasthan” (GS 5575). Hence, to assess the baseline scenario and estimation, validation team has applied the qualitative materiality¹ over the

¹ Qualitative materiality refers to intangible issues that affect the GHG statement. Examples include:

assumptions and information presented in the final Key Project Information and Project Design document (PDD)/1/.

7.2 Level of Assurance

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 Assurance”** as per the ISO Standard 14064-2 and ISO 14064-3 /23/.

APPENDIX 1: Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO₂	Carbon Dioxide
CO_{2e}	Carbon Dioxide equivalent

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- a) control issues that erode the verifier's confidence in the reported data;
 - b) poorly managed documented information;
 - c) difficulty in locating requested information;
 - d) noncompliance with regulations indirectly related to GHG emissions, removals or storage.

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
RJECL	Rajasthan Renewable Energy Corporation Limited
JWEPL	Janardan Wing Energy Private Limited

APPENDIX 2: COMPETENCY STATEMENT

Team Leader-

COMPETENCE STATEMENT

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

Roles

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

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

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	Komal Kumari
Nationality	Indian
Countries of Experience	India
Education Qualification	M.Sc. (Environmental Science) B.Sc. (Zoology)
Year of Experience	Fresher (Done 3 months Internship in VKU)
Area of Expertise	NA
Eligible Sectoral Scope	NA

Roles

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

Reviewed by	Vandana Gupta (Quality Manager)	Date	31/03/2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	31/03/2023

Technical reviewer-

COMPETENCE STATEMENT

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

Roles

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

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

APPENDIX 3: RESOLUTION OF FINDINGS

Description of Clarification Requests (CLs) raised by VVB:

Type	Date	16-January-2024
CL 01	Reference	Key Project Information, table 1. Section A.1.1, A.3 of PDD //DR// Validation Protocol//AT.
Description of the Non-Conformance		
<ol style="list-style-type: none"> 1. In Key project information of PDD: PD has not provided supporting documents for “date of project documentation was first submitted for preliminary review. 2. Table 1 of PDD: <ol style="list-style-type: none"> 1. PD has not provided Supporting document for No. of training provide. 2. PD has not provided Supporting document for No. of Jobs provide. 3. In Section A. 1.1 of PDD: <ol style="list-style-type: none"> a) PD has not provided any declaration for “The project activity is not registered with any other voluntary or compliance schemes.” b) PD has not provided any self-declaration for “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”. c) PD has not provided GS4GG-Cover Letter. d) PD has not provided An Official Development Assistance (ODA) declaration. e) As per Registered CDM PDD Start date of the project activity is the date on which the first purchase order was realised, i.e. 20/07/2016 PD needs to justify. 4. In Section A.3 of PDD: <ol style="list-style-type: none"> a) As per registered CDM PDD data of module TP,312 series - capacity, number of modules, total capacity does not match. b) As per registered CDM PDD data of module TP,315 series - number of modules, total capacity does not match. c) PD needs to justify is there is any change in total capacity MWp? 		
1stResponse from PP	Date	01-February-2024
<ol style="list-style-type: none"> 1. In Key project information of PDD: PD has provided supporting documents for date of project documentation which was first submitted for preliminary review. 2. In Table 1 of PDD: <ol style="list-style-type: none"> a. The supporting documents regarding no. of trainings has been provided. b. The supporting documents for no. of jobs provided. 3. In section A.1.1 of PDD: <ol style="list-style-type: none"> a. The project activity is not registered with any other voluntary or compliance scheme and declaration regarding the same has been provided. b. A self-declaration has been provided to 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”. c. GS4GG-Cover Letter has been submitted. 		

<p>d. Declaration regarding Official Development Assistance (ODA) has been provided.</p> <p>e. The project has been transited from GSCER to GS4GG (GSVER). The start date of the project i.e., first purchase order is on 20/07/2016 and the start of the crediting period is from 30/03/2017 and the same has been mentioned in the report.</p> <p>4. In section A.3 of PDD:</p> <p>a. The data of module TP,312 series - capacity, number of modules, total capacity is in lined with the registered PDD version 07 dated on 13/10/2020 and the supporting evidence for the same has been provided.</p> <p>b. The data of module TP,315 series - number of modules and total capacity are in lined with the registered PDD version 07 dated on 13/10/2020 and the supporting evidence for the same has been provided.</p> <p>c. There is no as such change in the total capacity MWp it is in lined with the registered PDD version 07 dated on 13/10/2020 and the supporting document for the same has been submitted.</p>				
1st Assessment by Audit Team	Status	Closed	Date	22-February-2024
<p>1. In Key project information of PDD: PD has provided supporting documents for “date of project documentation was first submitted for preliminary review, same has been reviewed and found correct. (CLOSED)</p> <p>2. Table 1 of PDD:</p> <p>a. PD has provided Supporting document for No. of training provide same has been revied and found correct (CLOSED)</p> <p>b. PD has provided Supporting document for No. of Jobs provide same has been revied and found correct (CLOSED)</p> <p>3. In Section A. 1.1 of PDD:</p> <p>a. PD has now submitted a declaration for “The project activity is not registered with any other voluntary or compliance schemes.” same has been reviewed and accepted by the assessment team. (CLOSED)</p> <p>b. PD has submitted a self-declaration for “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 program of a similar nature”. same has been reviewed and accepted by the assessment team. (CLOSED)</p> <p>c. PD has now provided a GS4GG-Cover Letter same has been reviewed and confirmed by the assessment team. (CLOSED)</p> <p>d. Assessment team confirms that PD has submitted An Official Development Assistance (ODA) declaration. (CLOSED)</p> <p>e. PD has provided an appropriate justification for “As per Registered CDM PDD Start date of the project activity is the date on which the first purchase order was realised, i.e. 20/07/2016” hence accepted by the assessment team. (CLOSED)</p> <p>4. In Section A.3 of PDD:</p> <p>a. PD has clarified that the data of module TP,312 series - capacity, number of modules, total capacity is in lined with the registered PDD version 07 dated on 13/10/2020 and assessment team confirms that the supporting document for the same has been provided and found consistent. (CLOSED)</p> <p>b. PD has clarified that data of module TP,315 series - number of modules and total capacity are in lined with the registered PDD version 07 dated on 13/10/2020 and assessment team confirms that the supporting document for the same has been provided and found consistent. (CLOSED)</p>				

- c. PD has clarified that there is no as such change in the total capacity MWp it is in lined with the registered PDD version 07 dated on 13/10/2020 and assessment team confirms that the supporting document for the same has been provided and found consistent.
(CLOSED)

Hence CL#1 is closed.

Type	Date	16-January-2024
CL 02	Reference	Section B.5.2, B.6,B.6.4, B.7.1,D.1,Section A.1.2, of PDD /DR//Validation Protocol//AT ER sheet //AT
Description of the Non-Conformance		
<ol style="list-style-type: none"> 1. In Section B.5.2 of PDD: PD has not provided supporting documents for “26.81% of the cost is used for Gold Standard Certification, and the remaining 73.19% is used in O&M costs to fulfil the SDGs like training and employment and the remaining Carbon Revenue is approximately 6.74% of the O&M expense. The IRR of the project is 11.21 % whereas the benchmark is 16.06%. “. 2. In Section B.6 of PDD: The assessment team during the site visit found that it is a solar project, PD has not justified the statement “. The assessment team during the site visit found that it is a solar project, justify the statement “. Since the project is Wind energy project, therefore the project does not emit any GHG. “ 3. In Section B.6.4 of PDD: <ol style="list-style-type: none"> a) Justify how 1 training/year for 5 years for a project result in 5 training as a result of the annual average. PD has not mentioned the correct value for the annual average. b) The assessment team during the site visit found that it is a solar project, PD has not justify the statement “. Since the project is Wind energy project, therefore the project does not emit any GHG”. 4. In Section B.7.1 of PDD: <ol style="list-style-type: none"> a) As per calibration certificate provided assessment team found that accuracy class for the meter is 0.2 s for all the meter installed, PD needs to justify statement “Energy meters of accuracy class 0.5 or 0.2s “ b) As per calibration certificate provided assessment team found that accuracy class for the meter is 0.2 s for all the meter installed, PD needs to justify statement “Energy meters of accuracy class 0.5 or 0.2s “ c) PD has not provided supporting document for the parameter <ul style="list-style-type: none"> • Quantitative employment • Quality of employment”. d) For the parameter “Quantitative employment Quality of employment PD has not clarified what will be expected monitoring period duration? e) For the parameter “Labour Rights” PD has not clarified what will be expected monitoring period duration? f) For the parameter “Hazardous waste” PD has not clarified what will be expected monitoring period duration? 		

<p>5. In Section D.1 of PDD: How you will monitor Labor Rights “mitigation Measures” Justify?</p> <p>6. In the ER sheet: PD has not specified " Version Dated" means.</p>					
1stResponse from PP		Date	01-February-2024		
<p>1. In Section B.5.2 of PDD: Ongoing Financial Need section is updated.</p> <p>2. In Section B.6 of PDD: The project activity is a solar power project and earlier there was a typo error and now it has been revised.</p> <p>3. In Section B.6.4 of PDD:</p> <p>a) The annual average value mentioned in the given table for the no. of trainings provided has now been corrected as per the ER sheet.</p> <p>b) The project activity is a solar power project and earlier there was a typo error and now it has been revised.</p> <p>4. In Section B.7.1 of PDD:</p> <p>a) The accuracy class is 0.2s for all the meters installed at site as per calibration certificates and the same thing has been mentioned and revised accordingly.</p> <p>b) The accuracy class is 0.2s for all the meters installed at site as per calibration certificates and the same thing has been mentioned and revised accordingly.</p> <p>c) The supporting document for the parameters is been provided:</p> <ul style="list-style-type: none"> • Quantitative employment • Quality of employment <p>d) The frequency for the parameter’s “Quantitative employment and Quality of employment” are once in a year and not for monitoring period and the same has been mentioned and revised.</p> <p>e) The frequency for the parameter “Labour Rights” is once in a year and not for monitoring period and the same has been mentioned and revised.</p> <p>f) The frequency for the parameter “Hazardous Waste” is once in a year and not for monitoring period and the same has been mentioned and revised.</p> <p>5. In Section D.1 of PDD: The frequency for the parameter Labor Rights is once in a year and not for monitoring period and the same has been mentioned and revised.</p> <p>6. In the ER sheet: The “Version Dated” means the date of submission and it has been revised.</p>					
1stAssessment by Audit Team		Status	Closed	Date	22-February-2024
<p>1. In Section B.5.2 of PDD: Assessment team confirms that Ongoing Financial Need section is updated same has been checked and found correct (CLOSED)</p> <p>2. In Section B.6 of PDD: PD has provided an appropriate justification that the project activity is a solar power project and earlier there was a typo error and now it has been revised and same has been mentioned in PDD, hence accepted by assessment team. (CLOSED)</p> <p>3. In Section B.6.4 of PDD:</p> <p>c) PD has provided proper justification for annual average value mentioned in the table for the no. of trainings provided has now been corrected in PDD as per the ER sheet same has been checked and confirmed. (CLOSED)</p>					

<p>d) PD has provided an appropriate justification that The project activity is a solar power project and earlier there was a typo error and now it has been revised and same has been mentioned in PDD, hence accepted by assessment team. (CLOSED)</p> <p>4. In Section B.7.1 of PDD:</p> <p>a. Assessment team found that PD has provided appropriate justification same has been mentioned and revised same has been checked in PDD and found consistent with calibration certificate. (CLOSED)</p> <p>b. Assessment team found that PD has provided appropriate justification same has been mentioned and revised same has been checked in PDD and found consistent with calibration certificate. (CLOSED)</p> <p>c. Assessment team confirms that PD has provided supporting document for the parameters same has been checked and found correct. (CLOSED)</p> <p>d. PD has revised the frequency and same has been checked in PDD and found correct, hence accepted by Assessment team. (CLOSED)</p> <p>e. PD has revised the frequency and same has been checked in PDD and found correct, hence accepted by Assessment team. (CLOSED)</p> <p>f. PD has revised the frequency and same has been checked in PDD and found correct, hence accepted by Assessment team. (CLOSED)</p> <p>5. In Section D.1 of PDD: PD has clarified that the frequency for the parameter Labor Rights is once in a year and not for monitoring period and the same has been mentioned same has been checked and found correct (CLOSED)</p> <p>6. In the ER sheet: Now PD has justified, same has been checked and found correct. (CLOSED)</p> <p>Hence CL#02 is Closed.</p>
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Type	Date	27-February-2024
CL 03	Reference	Section B.7.1 & B.7.3 of Validation Protocol //TR
Description of the Non-Conformance		
<p>1. Section B.7.1-</p> <p>a) Clarify the unit of parameter “Hazardous Waste” since it is monitored parameter.</p> <p>b) How are packaging wastes disposed off (eg plastic wastes in spares that are replaced as part of routine maintenance).</p> <p>2. Section B.7.3 - In rare events due to manmade or natural calamities the GSS is damaged or destroyed along with the monitoring equipment, how is the energy generation measured at site or what procedures are applied? Also if there is delay in calibration of the meters, what procedures are applied for the critical situation.</p>		
1stResponse from PP	Date	04-March-2024
<p>1. Section B.7.1-</p> <p>a) The unit of “Hazardous Waste” is incorporated.</p>		

<p>b) The spare parts are replaced by O&M entity so O&M entity will replace the parts and handle the packaging wastes also. The O&M entity is collecting the packaging wastes and disposed off as per compliance of local ULB.</p> <p>2. Section B.7.3 - In the event that the Main meter is not in service as a result of maintenance, repairs or testing, the Check meter will be used for readings and in the event that the Main meter and check meter both are not in service as a result of maintenance, repairs or testing, the Standby meter will be used for readings. The electricity export for baseline emissions and electricity import for project emission calculations, is required to be calibrated as per calibration frequency. If the calibration is delayed the error factor will be applied as per accuracy class of energy meter for delayed period at the time of verification.</p>				
1st Assessment by Audit Team	Status	Closed	Date	13-March-2024
<p>1. Section B.7.1-</p> <p>a) PD has revised the unit of “Hazardous Waste” and same has been checked in PDD and found correct, hence accepted by Assessment team”. (CLOSED)</p> <p>b) PD has clarified that the spare parts are replaced by O&M entity so O&M entity will replace the parts and handle the packaging wastes also the O&M entity is collecting the packaging wastes and disposed of as per compliance of local ULB hence accepted by Assessment team. (CLOSED)</p> <p>2. Section B.7.3 – PD has clarified that in the event that the Main meter is not in service as a result of maintenance, repairs or testing, the Check meter will be used for readings and in the event that the Main meter and check meter both are not in service as a result of maintenance, repairs or testing, the Standby meter will be used for readings. The electricity export for baseline emissions and electricity import for project emission calculations, is required to be calibrated as per calibration frequency. If the calibration is delayed the error factor will be applied as per accuracy class of energy meter for delayed period at the time of verification hence accepted by the assessment team. (CLOSED)</p> <p>Hence CL#3 is closed.</p>				

Description of Corrective Action Requests (CARs) raised by VVB:

Type	Date	16-January-2024
CAR 01	Reference	Title page, Key Project Information. Section A.2, A.3 of PDD //DR// Validation Protocol//AT.
Description of the Non-Conformance		
<p>1. Title page of PDD: During the desk review assessment team found that PD has used futuristic sentences for the implementation and commissioning Project throughout the PDD.</p>		

Type	Date	16-January-2024		
CAR 02	Reference	Section B.6, B.6.3 ,B.7.1, C.1.1 Appendix, of PDD //DR// Validation Protocol//AT		
Description of the Non-Conformance				
<p>1. In Section B.6 of PDD:</p> <p>a) PD has not mentioned “combined margin emissions factor, $EF_{grid,CM,y}$ ” as per the tool applied.</p> <p>b) PD has not mentioned the methodology applied for the calculation of leakage emission.</p> <p>2. In Section B.6.3 of PDD: The value of PLF is not consistent throughout the PDD.</p> <p>3. In Section B.7.1 of PDD: PD has not followed the guideline “If a section of this form is not applicable, explicitly state that the section is left blank intentionally “</p> <p>4. In Section B.7.3. of PDD: PD has not mentioned about what “D” indicates in the formula.</p> <p>5. In Section C.1.1 of PDD: PD has not followed the guideline “As per GS4GG Principal version 1.4, Justify if the project is regular, or retroactive and ensure KPI table matches “.</p>				
1stResponse from PP		Date	01-February-2024	
<p>5. In Section B.6 of PDD:</p> <p>a) The combined margin emissions factor has been revised as $EF_{grid,CM,y}$ in the given section and made in line with the applied tool.</p> <p>b) The methodology applied for the calculation of leakage emission has now been mentioned and revised.</p> <p>6. In Section B.6.3 of PDD: The value of PLF has been made consistent throughout the revised PDD version 2.0.</p> <p>7. In Section B.7.1 of PDD:</p> <p>a) Not applicable and also this not a section a part of table.</p> <p>b) In section B.7.3, D is indicating the net electricity exported to the grid and the same has been mentioned in the given section of the revised PDD.</p> <p>8. In Section C.1.1 of PDD: The project activity was earlier registered in CDM and transition has been done from CDM to GS4GG. The start date for the project activity is 20/07/2016 and the local stakeholder consultation meeting has been conducted on 03/07/2017 and as the date of LSC is after the start date of the project activity therefore the project is retroactive project and the supporting document for the same has been provided.</p>				
1stAssessment by Audit Team	Status	Open/Closed	Date	DD-Month-YYYY

9. In Section B.6 of PDD:

- a. The Assessment team confirms that combined margin emissions factor has been revised as $EF_{grid,CM,y}$ in the given section and made in line with the applied tool same has been checked and found consistent **(CLOSED)**
- b. The methodology applied for the calculation of leakage emission has now been mentioned and revised in PDD same has been checked and found correct **(CLOSED)**

10. In Section B.6.3 of PDD: The assessment team confirms that value of PLF has been made consistent throughout the revised PDD version 2.0 **(CLOSED)**

11. In Section B.7.1 of PDD:

- c) The section has been now revised by PD and found correct hence closed **(CLOSED)**
- d) In section B.7.3, PD has mentioned D is indicating the net electricity exported to the grid and the same has been mentioned in the given section of the revised PDD hence accepted **(CLOSED)**

8. In Section C.1.1 of PDD: PD has clarified that the project activity was earlier registered in CDM and transition has been done from CDM to GS4GG. The start date for the project activity is 20/07/2016 and the local stakeholder consultation meeting has been conducted on 03/07/2017 and as the date of LSC is after the start date of the project activity therefore the project is retroactive project and the supporting document for the same has been provided hence accepted **(CLOSED)**

Hence CAR 02 is closed

Type	Date	16-January-2024
CAR 03	Reference	Section E,E.1, Appendix, of PDD //DR// Validation Protocol//AT.
Description of the Non-Conformance		
<p>1. In Section E of PDD:</p> <ul style="list-style-type: none"> a) Font colour not matched. b) PD has not deleted the instruction in the PDD. <p>2. In Section E.1 of PDD: PD has not mentioned the concerns that were raised by stakeholders during the stakeholder consultations. If not also not specify it.</p> <p>3. Appendix 2- As per GS PDD template Guide version 1.4 guideline to completing the PDD " If a section of this form is not applicable, explicitly state that the section is left blank intentionally "PD has not followed the same.</p> <p>4. Appendix 3: As per GS PDD template Guide version 1.4 guideline to completing the PDD " If a section of this form is not applicable, explicitly state that the section is left blank intentionally "PD has not followed the same.</p>		

<p>5. Appendix 4: As per GS PDD template Guide version 1.4 guideline to completing the PDD " If a section of this form is not applicable, explicitly state that the section is left blank intentionally "PD has not followed the same.</p>				
1stResponse from PP		Date	01-February-2024	
<p>1. In Section E of PDD:</p> <p>a) Font colour has been revised.</p> <p>b) The instruction has been deleted as per template guideline.</p> <p>2. In section E.1 of PDD: The concerns raised by the stakeholders during the stakeholder consultation has been added in the given section and has been revised.</p> <p>3. In appendix 2: As per GS PDD template guide version 1.4 guideline the table has been revised.</p> <p>4. In appendix 3: Not applicable and the same has been mentioned with reason.</p> <p>5. In appendix 4: Not applicable and the same has been mentioned with reason.</p>				
1stAssessment by Audit Team	Status	Open/Closed	Date	DD-Month-YYYY
<p>6. In Section E of PDD:</p> <p>c) The assessment team confirms that Font colour has been now revised (CLOSED)</p> <p>d) The assessment team has reviewed the PDD and found instruction has been deleted as per template guideline hence accepted (CLOSED)</p> <p>7. In section E.1 of PDD: The concerns raised by the stakeholders during the stakeholder consultation have been added in the given section and have been revised same has been checked by the assessment team and found correct, hence accepted (CLOSED)</p> <p>8. In appendix 2: As per GS PDD template guide version 1.4 guideline the table has been revised same has been revised and found correct (CLOSED)</p> <p>9. In appendix 3: Not applicable and the same has been mentioned with reason same has been reviewed and found correct (CLOSED)</p> <p>10. In appendix 4: Not applicable and the same has been mentioned with reason same has been reviewed and found correct (CLOSED)</p> <p>Hence CAR 03 is closed</p>				

Type	Date	27-February-2024
CAR 04	Reference	Section A.1, A.1.2, B.3, B.5.2, B.6.4, C.1.1, C.2 ,D.1 of Validation Protocol//TR
Description of the Non-Conformance		

<ol style="list-style-type: none"> 1. In Section A.1 of PDD : The statement is contradicting each other. 2. In Section A.1.2 of PDD - What legal instrument is held by Janardan Wind Energy Pvt. Ltd. (JWEPL) with regards to demonstrating ownership of carbon credits generated from the project activity. 3. In Section B.3 of PDD - In the SLD it is not clear regarding the plant boundary and location of the meters ie., within plant or project boundary. 4. In Section B.5.2 of PDD - Name of O&M entity has not mentioned 5. In Section B.5.2 of PDD – PP has not provided evidences to substantiate the claim that the assumptions made at the time of decision making is still relevant. 6. In Section B.6.4 of PDD - Degradation factor is not used for conservative estimate of ER. 7. In Section B.6.4 of PDD – Are the estimates of the SDG 8 based on short term, long term, skilled, unskilled and semi-skilled? 8. In Section C.1.1 of PDD - Section is not filled as per the guidance document to fill PDD. 9. In Section C.2 of PDD – PP has not mentioned the first crediting period in order to check the continuation of the crediting period between first and second. 10. In Section D.1 of PDD - How the requirements are fulfilled as per SFG principles document. 11. APPENDIX -5 of PDD – The agency which performed calibration is not mentioned. 					
1stResponse from PP		Date	04-March-2024		
<ol style="list-style-type: none"> 1. In Section A.1 of PDD - The statement is revised. 2. Section A.1.2 of PDD - Janardan Wind Energy Pvt. Ltd. (JWEPL) is project developer and the same can be verify from commissioning certificate and PPA. 3. In Section B.3 of PDD - The Project boundary diagram is updated now plant boundary; meter locations and project boundary are clearly demonstrated. 4. In Section B.5.2 of PDD – The name of O&M entity is incorporated. 5. In Section B.5.2 of PDD – At the time of investment decision, the source of assumed values is DPR.O&M agreement is submitted with the responses to verify the values. 6. In Section B.6.4 of PDD - Degradation factor is used that's why the generation and ERs are decreasing year wise. 7. In Section B.6.4 of PDD – The Impact of employment is described based on short term, long term, skilled, unskilled and semi-skilled. 8. In Section C.1.1 of PDD -The section is as per TEMPLATE GUIDE- v1.4 Project Design Document. 9. In Section C.2 of PDD – The first crediting period is mentioned to check the continuation of the crediting period between first and second. 10. In Section D.1 of PDD - Safeguarding Principles mitigation measures added to the monitoring plan is updated as per requirement of Safeguarding Principles & Requirements version 2.1 11. In APPENDIX -5 of PDD – Name of Calibration Agency is incorporated. 					
1stAssessment by Audit Team		Status	Closed	Date	13-March-2024
<ol style="list-style-type: none"> 1. In Section A.1 of PDD - PD has now revised the same has been checked in the PDD and hence accepted. (CLOSED) 2. In Section A.1.2 of PDD - PD has clarified that Janardan Wind Energy Pvt. Ltd. (JWEPL) is project developer and the same can be verify from commissioning certificate and PPA. (CLOSED) 3. In Section B.3 of PDD - The Project boundary diagram is updated now plant boundary; meter locations and project boundary are clearly demonstrated same has been checked in PDD and found Correct (CLOSED) 					

4. **In Section B.5.2 of PDD** – The name of O&M entity is incorporated same has been checked in PDD and found Correct **(CLOSED)**
5. **In Section B.5.2 of PDD** – At the time of investment decision, the source of assumed values is DPR.O&M agreement is submitted with the responses to verify the values same has been cross checked and found correct. **(CLOSED)**
6. **In Section B.6.4 of PDD** – PD has clarified that Degradation factor is used that's why the generation and ERs are decreasing year wise. **(CLOSED)**
7. **In Section B.6.4 of PDD** – The Impact of employment is described based on short term, long term, skilled, unskilled and semi-skilled.
8. **In Section C.1.1 of PDD** – Now section is as per template guide- v1.4 Project Design Document hence closed. **(CLOSED)**
9. **In Section C.2 of PDD** – Assessment has checked the PDD and found that first crediting period is mentioned hence accepted. **(CLOSED)**
10. **In Section D.1 of PDD** - Safeguarding Principles mitigation measures added to the monitoring plan is updated now as per requirement of Safeguarding Principles & Requirements version 2.1 hence accepted **(CLOSED)**
11. **In APPENDIX -5 of PDD** – Name of Calibration Agency is incorporated same has been checked with calibration report and found correct hence accepted**(CLOSED)**

Hence CAR# is closed

Description of Forward Action Requests raised by VVB:

Type	Date	DD-Month-YYYY
FAR	Reference	Section — of — Val/Ver protocol
Description of the Non-Conformance		
1 st Response from PP	Date	DD-Month-YYYY
1 st Assessment by Audit Team	Status	Open/Closed
	Date	DD-Month-YYYY

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