



South Asia

Choose certainty.
Add value.

Gold Standard for Global Goals Validation Report for Renewal of Crediting Period

GS PROJECT NO. GS7137

**“50 MW MAHOBA SOLAR PV
POWER PROJECT BY M/S
PRAYATNA DEVELOPERS PVT.
LTD. AT MAHOBA, UP”**

Report No. ET-006668

1 April 2025

TÜV SÜD South Asia Pvt. Ltd.
Solitaire, I.T.I. Road, Aundh Pune-
411007 INDIA

Title of the project activity	50 MW Mahoba Solar PV Power Project by M/s Prayatna Developers Pvt. Ltd.
GS Reference number of the project activity	GS7137
Version number of the validation report	2.0
Completion date of the validation report	1/04/2025
Version number of PDD to which this report applies	2.0
Project developer(s)	Prayatna Developers Private Limited
Host Party	India
Sectoral scope(s)	01: Energy industries (renewable sources)
Methodology (ies)	ACM0002: Grid-connected electricity generation from renewable sources - Version 21.0
Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period	90,900 tCO ₂ e
Name of VVB	TUV SUD South Asia Pvt Ltd
Name, position and signature of the approver of the validation report	Deepankar Chowdhury, Head - Quality Assurance, Certification Body, TÜV SÜD South Asia



South Asia

Table of Contents

Page

1	METHODOLOGY	3
1.1	Objective	3
1.2	Scope.....	3
1.3	Validation Process.....	3
1.4	Appointment of the Team	4
1.5	Review of Documents	4
1.6	On-site Assessment and follow-up Interviews.....	5
1.7	Resolution of Clarification and Corrective and Forward Action Requests	7
1.8	Internal Quality Control.....	7
2	CARBON VALIDATION AND REPORTING.....	7
2.1	FARs from Validation / Previous Validation.....	7
2.2	CLs, CARs and FARs raised	7
2.3	Compliance with PDD form	8
2.4	Application and selection of methodologies and standardized baselines.....	8
2.5	Validity of Original baseline and updates	11
2.6	Financial check	12
2.7	Estimated emission reductions or net anthropogenic removals	12
2.8	Validity of monitoring plan.....	14
2.9	Crediting period	15
2.10	Project developers	16
3	SUSTAINABILITY VALIDATION	16
3.1	Assessment of SDG outcomes.....	16
4	VALIDATION OPINION	16

Annex 1: List of findings

Annex 2: Information Reference List

1 INTRODUCTION

1.1 Objective

TÜV SÜD has been commissioned by Infinite Solutions to perform an independent validation assessment for the renewal of crediting period of Gold Standard Project 7137.

The objective of the Validation is to have an independent evaluation of the update PDD's compliance with relevant UNFCCC and GS4GG requirements and host Party criteria to confirm that the original project baseline is still valid or has been updated taking into account of new data where applicable. In particular, the project's baseline, monitoring plan and the project's compliance with relevant GS and UNFCCC requirements and host Party criteria are validated in order to confirm the correctness of the application of the approved baseline methodologies for the determination of the continued validity of the baseline/or its update, and estimation of the emission reductions for the applicable crediting period. The validation scope involves reviewing the updated GS-PDD against the Gold Standard, GS4GG requirements.

1.2 Scope

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities. In the case of GS project activities, the scope is set by:

- GS4GG requirements
- Clean Development Mechanism Validation and Verification Standard (VVS) for Project Activities v3.0
- Baselines and monitoring methodologies (including GHG inventories)
- Environmental issues relevant to the applicable sectoral scope
- Applicable environmental and social impacts and aspects of GS project activity
- Current technical and operational knowledge of the specific sectoral scope and information on best practice
- Stakeholder consultation and feedback

The validation process is not meant to provide any form of consulting for the project developer (PP). However, stated requests for clarifications, corrective actions, and/or forward actions may provide input for improvement of the project design.

1.3 Validation Process

The information provided by the project developers is assessed by applying the means of validation specified in the GS4GG, Toolkit and the VVS.

A competent assessment team is selected prior to the start of the validation. The team is selected to cover the technical area(s), sectoral scope(s) and relevant host country experience for evaluating the GS project activity. Additionally, a competent Technical Reviewer or Technical Reviewer Team is appointed to conduct checks on quality and completeness.

The validation team performs first a desk review, followed by a remote site visit, which results in the formation of a draft report and a list of findings. The next step involves the evaluation of the findings through direct communication with the PPs and then finally the preparation of the validation report. This validation report and other supporting documents undergo internal quality control by the CB “Environment and energy” before submission to the GS after technical review

1.4 Appointment of the Team

According to the technical scopes and experiences in the sectoral or national business environment, TÜV SÜD has composed an assessment team in accordance with the appointment rules of the TÜV SÜD Certification Body “Environment and Energy”.

The composition of an assessment team has to be approved by the Certification Body (CB) to as- sure that the required skills are covered by the team. The CB of TÜV SÜD operates the following qualification levels for team members that are assigned by formal appointment rules:

- Assessment Team Leader (ATL)
- Validator (V)
- Technical Experts (TE)
- Country expert (CE)
- Technical reviewer (TR)

It is required that the sectoral scope(s) and the technical area(s) (TA) linked to the methodology/ies and project has to be covered by the assessment team. Appointment certificates of the selected team members are attached to this report as Annex.

Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk review	Remote-site inspection	Interview(s)	Validation findings
1.	Team Leader Validator/Technical Expert/ Host country Expert	IR	Vyas	Arjun ¹	TÜV SÜD South Asia Private Limited (TÜV SÜD)	√	√	√	√
2	Trainee Validator	IR	Patil	Pratiksha ²	TÜV SÜD South Asia Private Limited (TÜV SÜD)	√	√	√	√
3	Team Leader Validator/Technical Expert/ Host country Expert	IR	Raychoudhury	Rishi	TÜV SÜD South Asia Private Limited (TÜV SÜD)	x	x	x	√

¹ Worked till 30/10/2024

² Worked till 30/12/2024

4	Validator	IR	Basak	Deepjyoti	TÜV SÜD South Asia Private Limited (TÜV SÜD)	x	x	x	✓
---	-----------	----	-------	-----------	--	---	---	---	---

Technical reviewer and approver of the validation and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Technical reviewer	EI	Sudheendra	K	TÜV SÜD South Asia Private Limited (TÜV SÜD)
2	Approver	IR	Deepankar	Chowdhury	TÜV SÜD South Asia Private Limited (TÜV SÜD)

1.5 Review of Documents

Based on the initial submitted GS-PDD, the assessment team performed a desk review to:

- verify the completeness of the data and the information presented in the GS-PD.
- check the validity of the baseline with respect to the current national /sectoral policies, ongoing financial additionality , applicability of the methodology and sustainable development indicators.
- evaluate the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

A complete list of all documents reviewed is available in the Information Reference List attached as Annex 2 of this report.

1.6 Remote Assessment and follow-up Interviews

Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Bag	Debjit	Deputy General Manager-PP	12/10/2023	PDD description, applicability of methodology, base-line validity, and monitoring plan, ER calculation.	Arjun Vyas and Pratiksha Patil
2	Deepak	Pathak	Deputy Manager – PP	12/10/2023	PDD description, applicability of methodology, base-line validity, and monitoring plan, ER calculation.	

3	Awdhesh Pratap	Singh	Site In charge-PP	12/10/2023	PDD description, applicability of methodology, base-line validity, and monitoring plan, ER calculation.	
4	Dey	Koustuv	Infinite Environmental Solutions	12/10/2023	PDD description, applicability of methodology, base-line validity, and monitoring plan, ER calculation.	
5	Kumar	Shantanu Sahu	Assistant Manager-Infinite Environmental Solutions	12/10/2023	PDD description, applicability of methodology, base-line validity, and monitoring plan, ER calculation.	

The audit team had interacted with stakeholders of the project. The implementation of the project, working condition, benefits from the project activity and any other issues/problems faced by them were discussed through remote interviews.

1.1 Resolution of Clarification and Corrective and Forward Action Requests

The objective of this phase of the validation is to resolve the requests for corrective actions, clarifications, and any other outstanding issues which need to be clarified for TÜV SÜD's conclusion on the achieved emission reductions. 7 CARs were raised during the course of validation. 7 CL and 0 FAR has been raised. All the CARs raised by TÜV SÜD are resolved during communication between the client and TÜV SÜD. To guarantee the transparency of the validation process, the concerns raised and responses that have been given are documented in detail in the List of Findings that is attached as Annex 1 to this report.

1.2 Internal Quality Control

Internal quality control within the team is assured by means of a technical review process that takes place after the remote-site assessment and after closure of findings. The internal quality control in the validation process is given by the final decision (Validation and Certification Conclusion) made by the CB "Environment and Energy".

2 CARBON VALIDATION AND REPORTING

The project activity developed by Prayatna Developers Private Limited. The project activity involves installation of 50 MW solar power project. The project is installed in the same project boundary at Village: Akathauha & Ghutbai, in Tehsil: Charkhari, District: Mahoba, State: Uttar Pradesh.

The electricity generated from project activity will be sold under the Power Purchase Agreement (PPA), signed with NTPC.

The project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 90,900 tCO₂e per year, thereon displacing 97,638 MWh/year amount of electricity from power plants connected to the Indian electricity grid, which is mainly

dominated by fossil fuel-based power plant. Validation team has also assessed various carbon mechanism such as CDM, VERRA and GCC and found that the project activity is not claiming any carbon benefits from any other mechanisms for the same crediting period

In the following sections, the results of the validation are stated. The validation results relate to the project performance as documented and described in the final PDD. The validation findings for each validation subject are presented below.

2.1 FARs from Validation / Previous Validation

No FARs have been raised.

2.2 CLs, CARs and FARs raised

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form			
Application and selection of methodologies and standardized baselines		CAR 1, CAR 3	
Validity of original baseline or its update		CAR 2	
Financial check			
Estimated emission reductions or net anthropogenic removals			
Validity of monitoring plan		CAR 4	
Crediting period			
Project developers	CL7		
Sustainability opinion	CL5, CL6,	CAR 5	
Key Project Description and Project Description	CL1, CL2, CL3, CL4		
Other		CAR 6 and CAR 7	
Total	7	7	0

2.3 Compliance with PDD form

PD applies the applicable Gold Standard for the global goals, key project information and project design document, version 2.0 of 30/10/2023. The validation team verified that for the renewal crediting period, information transferred to the later valid version of the PDD form is materially the same as that in the registered PDD and the sections of the PDD relating to the baseline, estimated GHG emission reductions, monitoring plan and crediting period and GS4GG requirements have been updated in accordance to the Gold Standard for the global goals principles & requirements, version 1.2

2.4 Application and selection of methodologies and standardized baselines

Means of Validation	VVB has verified whether the baseline and monitoring methodology applied in the project activity in accordance with the applicable requirements in the Project standard for project activities. The PP has applied the latest methodology version ACM0002 Ver.21 in the updated PDD. The applicability condition of the ACM0002 Ver.21 in context of project
----------------------------	--

	activity is demonstrated in PDD. The summary of the project compliance With applicability criteria is listed below:		
	ACM0002 (Version 20.0) applicability conditions This methodology is applicable to grid-connected renewable energy power generation project activities that: Install a Greenfield powerplant; Involve a capacity addition to (an) existing plant(s); Involve a retrofit of (an) existing operating plants/units; Involve a rehabilitation of (an) existing plant(s)/unit(s); or Involve a replacement of (an) existing plant(s)/unit(s).	Project Case The project activity is a Renewable Energy Project i.e. Solar Power Project which falls under applicability criteria option 1 (a) i.e., "Install a Greenfield power plant". As per ACM0002 "Greenfield power plant - a new renewable energy power plant that is constructed and operated at a site where no renewable energy power plant was operated prior to the implementation of the project activity;" Prior to the project's commissioning on 08/02/2016, no other renewable power plant existed in the same location therefore the plant is a	Conclusion made by validation team The registered project is 50 MW solar power project and generated electricity is supplied to Indian National Grid. It is validated from GS PDD Version 5.0 dated 10/12/2020. Based on the above assessment the validation team confirms that the registered GS project activity is a Greenfield grid connected wind power project. Hence, this applicability condition is fulfilled.

		greenfield activity. Hence the project activity meets the given applicability criterion.	
	2) In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that: Integrate BESS with a Greenfield power plant; Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic or wind power plant(s)/unit(s); Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s).	The project activity does not have a battery energy storage system. Thus, this criterion is not applicable.	As per submitted PDD, the generated electricity is supplied to the Indian National Grid and there is no battery energy storage system. Hence, this conditions is not applicable.
	The methodology is applicable under the following conditions:	The project activity is not a Hydro power project, and it does not have	The project is a solar power project. Hence, this applicability condition is not relevant to the

	Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit; In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity; In case of Greenfield project activities applicable under paragraph 5 (a) above, the project developers shall demonstrate that the BESS was an integral part of the design of the renewable	BEES. Hence not applicable.	project activity.
--	--	------------------------------------	--------------------------

	energy project activity (e.g. by referring to feasibility studies or investment decision documents); The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies 2 may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions following the requirements under section 5.4.4 below. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g. week(s), months(s)) when the BESS consumes more than 2 per cent of the electricity for charging, the project developer shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period.		
--	--	--	--

	4) In case of hydro power plants, one of the following conditions shall apply: The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m²; or The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m²; or The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (7), is lower than or equal to 4 W/m², all of the following conditions shall apply:	The project is not a hydro power project. Hence, not applicable.	The project is a solar power project. Hence, this applicability condition is not relevant to the project activity.
--	--	---	---

	The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater than 4 W/m²; Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m² shall be: Lower than or equal to 15 MW; and Less than 10 per cent of the total installed capacity of integrated hydro power project.		
	5) In the case of integrated hydro power projects, project developers shall: Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or Provide an analysis of the water balance covering the water fed to power units, with all	The project is not a hydro power project. Hence, not applicable.	The project is a solar power project. Hence, this applicability condition is not relevant to the project activity.

	possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity.		
	6) The methodology is not applicable to: Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; Biomass fired power plants/units	Not applicable as the project is setting up a solar power project.	The project is a solar power project. Hence, this applicability condition is not relevant to the project activity.
	7) In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of	The project does not involve retrofits, rehabilitations, replacements, or capacity additions. Hence not applicable.	The project is greenfield project and not a retrofit rehabilitations, replacements, or capacity additions. Hence not applicable

	the identification of baseline scenario, is “the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance”.		
	Additional requirements for Hydro power project.	The project is not a hydro project hence this requirement is not applicable.	The project is a solar power project. Hence, this applicability condition is not relevant to the project activity.
	Renewable Energy projects connected to national, or a regional electricity grid must be located in either: Least Developed Country (LDC), Small Island Developing State (SIDS) or a Land Locked Developing Country (LLDC) or Low Income and Low Middle-income country where the penetration level of the proposed Renewable Energy Technology type is less than 5% of the total grid installed capacity, at the time of the first submission to preliminary review.	As per section 2.1.5 of Renewable Energy activity requirements v1.4, Since this is a Crediting period renewal and the project activity has done its preliminary review before 24th Jan 2020, on 04/12/2019. Therefore, the project is exempt from this clause.	As the clause is been exempted, this condition is not applicable.
Findings	CAR 1 and CAR 3 has been raised and has been closed successfully.		
Conclusion	TÜV SÜD confirms that the chosen baseline and monitoring methodology is applicable to the project activity.		

2.5 Validity of Original baseline and updates

Means of validation	DOE has assessed the validity of the baseline of the project activity as per below as per the tool Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period. According to the Methodological tool of “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (Version 03.0.1)”, the stepwise procedure to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period are as follows: Step 1: Assess the validity of the current baseline for the next crediting period. Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies. The baseline scenario remains unchanged and is in compliance with all the relevant mandatory national and/or sectoral policies. Step 1.2: Assess the impact of circumstances. The baseline scenario identified at the validation of the project activity was “The electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid connected power plants and by the addition of new generation sources into the grid”. Thus, this project activity was a voluntary investment which intends to replace equivalent amount of electricity at grid from renewable source. PD was not bound to incur this investment; hence absence of project activity (i.e., the investment) does not lead to any continued baseline practice for PD within their scope whereas the continued operation of the project activity would continue to replace equivalent amount of electricity at grid. Hence, the same baseline as identified in the previous crediting period is still valid for the project. Therefore, the assessment of the changes in market characteristics is not required for the renewal of the project's crediting period under CDM. Step 1.3: Assess whether the continuation of the use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested. As explained in step 1.2, the baseline scenario was the electricity import/generation from the power plants connected to the electricity grid. The project activity in green field project and there is not any baseline equipment or investment involved in project activity. Therefore, this condition is not applicable to the project activity. Step 1.4: Assessment of the validity of the data and parameters
----------------------------	--

This step stipulates that “Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if the emission factors, values or emission benchmarks are based on the historical situation at the site of the project activity prior to the implementation of the project and cannot be updated because the historical situation does not exist anymore as a result of the CDM project activity.” In the context of the present project activity the emission factor has been updated along with the approach used to calculate the emission factor

Step 2: Update the current baseline and the data and parameters.

As evident from the explanation provided above the baseline scenario remains unchanged. Only the approach used to calculate the baseline emission factor is updated as per the latest version of database available at the time of PDD submission for renewal. In line with the CDM project standard for project activity version 03.0, the impact of new relevant national and/or sectoral policies and circumstances on the baseline taking into account relevant EB guidance with regard to renewal of the crediting period at the time of requesting renewal of crediting period; and the correctness of the application of an approved baseline methodology for the determination of the continued validity of the baseline or its update, and the estimation of emission reductions for the applicable crediting period.

As per the approved consolidated Methodology ACM0002 (Version 21.0, EB 116, Annex 1) para 24: *“If the project activity is the installation of a Greenfield power plant with or without a BESS as described under paragraph 4(a) or paragraph 5(a), the baseline scenario is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in TOOL07.”*

The project activity involved setting up solar plant to produce electricity and supply to the grid. In the absence of the project activity, the equivalent amount of power would have been supplied to the electricity grid by the operation of grid-connected power plants (mainly by fossil fuel fired plants) and by the addition of new generation sources, as reflected in the combined margin (CM) calculations.

Hence, the baseline for the project activity is the equivalent amount of power from the Indian grid.

The combined margin ($EF_{grid,CM,y}$) is the result of a weighted average of two emission factor pertaining to the electricity system: the operating

	margin (OM) and build margin (BM). Calculations for this combined margin must be based on data from an official source (where available) and made publicly available. The CEA database version 18.0 was the latest available data at the time of PDD submission to DOE for validation, hence same is considered for emission factor calculations. The combined margin of the Indian grid used for the project activity is as follows:			
	Parameter	Value	Nomenclature	Source
	$EF_{grid,CM,y}$	0.9310 tCO ₂ /MWh	Combined margin CO ₂ emission factor for the project electricity system in year y	Calculated as the weighted average of the operating margin (0.75) & build margin (0.25) values, sourced from Baseline CO ₂ Emission Database, Version 18.0, September 2022 published by Central Electricity Authority (CEA), Government of India.
	$EF_{grid,OM,y}$	0.9518 tCO ₂ /MWh	Operating margin CO ₂ emission factor for the project electricity system in year y	Calculated as the last 3 year (2019-20, 2020-21 and 2021-22) generation-weighted average, sourced from Baseline CO ₂ Emission Database, Version 18.0, Sep 2022 published by Central Electricity Authority (CEA), Government of India.
	$EF_{grid,BM,y}$	0.8687 tCO ₂ /MWh	Build margin CO ₂ emission factor for the project electricity system in year y	Baseline CO ₂ Emission Database, Version 18.0. Sep 2022 published by Central Electricity Authority (CEA), Government of India.
	The assessment team has confirmed the establishment of baseline and emission factors are in line with Tool 11 and the CEA version 18.0.			
Findings	CAR 2 was raised and closed successfully.			
Conclusion	The assessment team has assessed the validity of baseline as per tool and confirms to be in line with the tool. TUV SUD confirms that the validity of the baseline has been assessed as per the requirements of the methodological Tool and CDM VVS PA v3.0.			

2.6 Financial check

Means of validation	Validation Team has assessed and concludes that proposed project activity contributes economic growth through employment creation, improvement working conditions and emission reduction. Project activity has resulted in employment generation of 20 personnels which are paid/ higher than annual average per capita income as “Minimum Wages Act, 1948”. Validation Team has assessed the carbon revenue generation information by PD which does not have any significant influence on financial figure as declared by PD it remains approximately 1.33% same is validated by evaluating the project cash flow in OFN sheet where the revenue from carbon credits and cost of project validation and verification costs are considered. Also, PD has already demonstrated in additionality assessment thus proved to be additional in CDM/GS in order to seek carbon credit revenue for financial viability to sustain throughout the project lifetime.
Findings	No findings were raised.
Conclusion	The OFN has been demonstrated by the PP in accordance with GS requirements.

2.7 Estimated emission reductions or net anthropogenic removals.

Means of validation	As per the approved consolidated Methodology ACM0002 (Version 21.0, EB 116, Annex 1), Emission reductions are calculated as follows: $ER_y = BE_y - PE_y$ Where: ER_y = Emission reductions in year y (t CO₂e/yr) BE_y = Baseline emissions in year y (t CO₂/yr) PE_y = Project emissions in year y (t CO₂e/yr) Baseline Emissions: Baseline Emissions for the amount of electricity supplied by project activity, BE_y is calculated as $BE_y = E_{GPJ,y} \times EF_{grid,CM,y}$ Where: BE_y = Baseline emissions in year y (t CO₂/yr) $E_{GPJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr) $EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system” (tCO₂/MWh). Using the values for operating and build margin emission factor provided in the CEA database version 18.0 and their respective weights for calculation of combined margin emission factor, the baseline carbon emission factor (CM) is 0.9310 tCO₂e/MWh. $E_{GPJ,y} = 97,638$ MWh/year $EF_{grid,CM,y} = 0.9310$ tCO₂/MWh
----------------------------	---

	$BE_y = E_{GP,y} \times EF_{grid,CM,y}$ $BE_y = 97,638 \times 0.9310 \text{ tCO}_2/\text{year}$ $BE_y = 90,900 \text{ tCO}_2/\text{year}$ Project emissions As per the ACM0002 version 21.0, Project Emission for most renewable energy power generation project activities, $PE_y = 0$. However, some project activities may involve project emissions that can be significant. These emissions shall be accounted for as project emissions by using the following equation: $PE_y = PE_{FF,y} + PE_{GP,y} + PE_{HP,y} + PE_{BEES,y}$ Where: PE_y = Project emissions in year y (tCO₂e/year) $PE_{FF,y}$ = Project emissions from fossil fuel consumption in year y (tCO₂/year) $PE_{GP,y}$ = Project emissions from the operation of geothermal power plants due to the release of non-condensable gases in year y (t CO₂e/year) $PE_{HP,y}$ = Project emissions from water reservoirs of hydro power plants in year y (tCO₂e/year). $PE_{BEES,y}$ = Project emissions from charging of a BESS using electricity from the grid or from fossil fuel electricity generators (t CO₂e/year) The project activity involves the generation of electricity from the installation of solar projects. The project activity does not use fossil fuel for its operation, it does not involve geothermal energy or water reservoirs or Battery energy storage system. Therefore: $PE_{FF,y}=0$, $PE_{GP,y}=0$, $PE_{HP,y}=0$, $PE_{BEES,y}=0$. Since, there is no project emission for the project activity. Therefore, project emissions are zero. Leakage Emissions No other leakage emissions are considered. The emissions potentially arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, transport etc.) are neglected. Emission Reductions Emission reductions are calculated as follows- $ER_y = BE_y - PE_y$ Where: ER_y = Emission reductions in year y (tCO₂/yr) BE_y = Baseline emissions in year y (tCO₂/yr) PE_y = Project emissions in year y (tCO₂/yr)
--	---

	$ER_y = BE_y - PE_y$ $ER_y = 86,405 - 0$ $ER_y = 86,405 \text{ (tCO}_2\text{/y)}$			
	Year	Baseline Estimate	Project Estimate	Net Benefit
	16/11/2023 to 15/11/2024	0	98,816	98,816
	16/11/2024 to 15/11/2025	0	98,223	98,223
	16/11/2025 to 15/11/2026	0	97,634	97,634
	16/11/2026 to 15/11/2027	0	97,048	97,048
	16/11/2027 to 15/11/2028	0	96,466	96,466
	Total	0	4,88,188	4,88,188
	The parameters and formulae presented in the ER sheet and the PDD were cross checked and verified with approved methodology and the respective tools.			
Findings	No CAR/CL has been raised			
Conclusion	The GHG emission calculations of the project activity are as per the applied methodology ACM0002 Version 21.0.			

2.8 Validity of monitoring plan

Means of validation	The project activity has applied approved monitoring methodology ACM0002 Version 21.0. The PDD has described the monitoring plan in a clear and transparent manner, which is in compliance with applied approved monitoring methodology. The validation team has validated each parameter required to be monitored as per applied monitoring methodology and is of the opinion that the proposed monitoring plan in PDD is feasible to implement and will result credible emission reductions resulted due to the project activity. Parameters fixed ex ante $EF_{grid,CM,y}$: Combined margin CO2 emission factor for the project electricity system in year y $EF_{grid,OM,y}$: Operating margin CO2 emission factor for the project electricity system in year y $EF_{grid,BM,y}$: Build margin CO2 emission factor for the project electricity system in year y The parameters fixed ex ante have been checked by the audit team and are in line with the methodology as well as the registered PDD. The values are in line with methodology and confirmed by the audit team.
----------------------------	---

	Parameters monitored ex-post The following parameters will be monitored ex-post: <table border="0"> <tr> <td>SDG 13</td><td>ERy - Annual emission reduction</td></tr> <tr> <td>SDG 8</td><td>Employees' monthly wages</td></tr> <tr> <td>SDG 7</td><td>Quantity of net electricity generation supplied by the project plant/unit to the grid in year y</td></tr> </table> The monitoring plan presented in the PDD complies with the requirements of the applicable methodology. The assessment team has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found. PP has appropriately mentioned the maintenance and frequency of monitoring equipment and monitoring frequency against each monitoring parameter. The procedures have been reviewed by the assessment team through document review and/or interviews with the relevant personnel. The information provided has allowed the assessment team to confirm that the proposed monitoring plan is feasible within the project design. The relevant points of monitoring plan have been discussed with the PPs. Specifically, these points include the location of meters, data management, and the quality assurance and quality control procedures to be implemented in the context of the project. Management system and quality assurance As per the interaction had with project proponent and document verification it is confirmed that the monitoring arrangements in the monitoring plan are feasible within the project design.	SDG 13	ERy - Annual emission reduction	SDG 8	Employees' monthly wages	SDG 7	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y
SDG 13	ERy - Annual emission reduction						
SDG 8	Employees' monthly wages						
SDG 7	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y						
Findings	CAR 4 was raised and closed successfully.						
Conclusion	It is TUV SUD's opinion that the monitoring plan is in accordance with the monitoring methodology; the monitoring plan will give opportunity for real measurement of achieved emission reductions. TUV SUD has checked all the parameters presented in the monitoring plan against the requirements of the methodology and methodological tools; no deviations relevant to the project activity have been found in the plan. TUV SUD confirms that the monitoring arrangements described in the monitoring plan, including the data management and quality assurance and quality control procedures, are feasible within the project design, and the means of implementation of the monitoring plan are sufficient to ensure the emission reductions achieved by/resulting from the registered CDM project activity can be reported ex post and verified.						

2.9 Crediting period

Means of validation	The first crediting period started on 16/11/2018 to 15/11/2023 and the second crediting period starts from 16/11/2023 to 15/11/2028. However, as per the section 5.1.46 of GS principle and requirements version 1.2, it is confirmed that the PP will not claim the emission reductions for the period, when there was a delay and the monitoring will start only from the day the project is deemed renewed.
Conclusion	No CAR/CL has been raised.
Findings	TUV SUD confirms that as per the section 5.1.46 of GS principle and requirements version 1.2, it is confirmed that the PP will not claim the emission reductions for the period, when there was a delay and the monitoring will start only from the day the project is deemed renewed. The same is accepted as per GS4GG requirements.

2.10 Project developers

Means of validation	The project developers described in the PDD are Prayatna Developers Private Limited. Hence accepted.
Conclusion	CL 7 has been raised and closed successfully.
Findings	TUV SUD verified that the project developers included in the PDD are consistent with the names of the project developers in the project view page. The validation team confirms that the same is as per GS4GG requirements.

3 3SUSTAINABILITY VALIDATION

3.1 Assessment of SDG outcomes

Assessment of SDG outcomes. The outcome of SDG 13:

Emission reduction before renewal of crediting period: 94,209 tCO₂e/year
Emission reduction during renewal of crediting period: 90,900 tCO₂e/year

Since there is an increase in the Grid EF value during the 2nd crediting period, the emission reduction is increased by 16,545 (3309 X 5) tCO₂e which is conservatively estimated in the PDD.

4 VALIDATION OPINION

TUV SUD has performed a validation of the updated GSPDD for the project activity “50 MW Mahoba Solar PV Power Project by M/S Prayatna Developers Pvt. Ltd. At Mahoba, UP” GS registration No. 7137. The validation of the updated GS PDD has been performed for second renewal crediting period (from 16/11/2023 to 15/11/2028) and is based on the information made available to us.

Mahoba Solar PV Power Project by M/S Prayatna Developers Pvt. Ltd. At Mahoba, UP is responsible for the preparation of the GHG emission reductions data and the reported GHG emissions reductions against the requirements of Monitoring Plan in the updated PDD version 03 dated on 27/03/2025 as per monitoring plan against the criteria of the applied methodology ACM0002, Version 21.

TÜV SÜD’s validation approach for renewal of crediting period was based upon criteria set outs by the GS program. TÜV SÜD’s validation process for validation of 2nd crediting period considers the risks associated with reporting GHG emissions data and the controls in place

to mitigate risk occurred from identified causes of uncertainty. Validation Process for 2nd crediting period ensures the followings:

- Updated PDD has all the section relating to relating to the baseline, estimated GHG emission reductions or net anthropogenic GHG removals, the monitoring plan and the crediting period using the valid version of the approved methodologies and, where applicable, the approved standardized baselines and the other methodological regulatory documents that are applicable to the project activity.
- Applied methodology and methodological tools are of valid version as per the criteria of GS VVS V1 (Gold Standard, Validation and Verification Standard, Version 1) as well as CDM VVS PA V3.0 (Clean Development Mechanism, Validation and Verification Standard for Project Activity, Version 3.0)
- Updated PDD uses valid version for latest PDD form and information from the registered PDD is transferred in latest version without any material inconsistency
- The original baseline is found valid with respect to registered PDD against the requirement of project standard
- Information of Project Developer are consistent with respect to approval and MOC objective evidence against the requirement of GS VVS V1 (Gold Standard, Validation and Verification Standard, Version 1) as well as CDM VVS PA V3.0 (Clean Development Mechanism, Validation and Verification Standard for Project Activity, Version 3.0)
- No deviation from applied valid version of methodology or/and methodological tool against the criteria of GS VVS V1 (Gold Standard, Validation and Verification Standard, Version 1) as well as CDM VVS PA V3.0 (Clean Development Mechanism, Validation and Verification Standard for Project Activity, Version 3.0)
- No deviation from the registered monitoring plan is found against the requirement of GS VVS V1 (Gold Standard, Validation and Verification Standard, Version 1) as well as CDM VVS PA V3.0 (Clean Development Mechanism, Validation and Verification Standard for Project Activity, Version 3.0)
- Request of validation for 2nd crediting period is valid as the next crediting period of the project activity commences on the day immediately after the expiration of the current crediting period
- PD has now added the important milestone for project implementation and registration under the carbon market mechanism which includes the registration ID of CDM (10594) which was registered in 27/08/2020 and transitioned to GS4GG on 23/03/2022 with ID 7137 along with relevant weblink in section A.1 of the PDD. Same has been assessed by VVB.

- PD has provided the declaration to demonstrate that project is not registered with any other carbon market or any other domestic/international registry that could hold renewable energy certificates which has been assessed by VVB team.
- PD claims that they invested a total amount of ₹ 1,69,30,000 in Corporate Social Responsibility (CSR) activities during the 1st crediting period (16/11/2018 to 15/11/2023) and These contributions made towards the sustainable development and welfare initiatives associated with the project. Same has been verified by VVB.
- PD demonstrate that as this is a solar energy project, no additional Environmental and Social Impact Assessment (ESIA) is required for the renewal crediting period. Validation team assessed that since the ESIA is completed in validation time it is not necessary at the time of renewal.

The review of the updated project design documentation and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews have provided TUV SUD with sufficient evidence to validate the fulfillment of the stated criteria applicable for RCP.

The review of PDD and the subsequent follow-up interviews has provided TUV SUD with sufficient evidence to determine the validity of the original baseline scenario. The project correctly applies the baseline and monitoring methodologies. The total emission reductions from the project activity “50 MW Mahoba Solar PV Power Project by M/S Prayatna Developers Pvt. Ltd. At Mahoba, UP” are estimated to be on an average 90,900 tCO₂e per year over the selected 5 years renewable crediting period. The emission reduction forecast has been checked and it is deemed likely that the stated amount is achieved given that the underlying assumptions do not change.

It is TUV SUD’s opinion that the project “50 MW Mahoba Solar PV Power Project by M/S Prayatna Developers Pvt. Ltd. At Mahoba, UP” in India meets all the relevant requirements for the renewal of the crediting period. Hence TUV SUD requests the renewal of the crediting period for the project activities.

Annex 1: Clarification requests, corrective action requests and forward action requests

CL from this verification

CL ID	01	Section no.	A.1	Date: 17/10/2023
Description of CL				
1. In section A.1 it is stated that “power resources, the generated green electricity will contribute to climate change mitigation efforts”, this sentence found to be redundant. PP need to correct it and provide appropriate clarification on it. 2. PP need to provide the clarification on to which DISCOM, electricity is provided.				
Project developer response				Date: 30/10/2023
1. PP wants to clarify that the sentence was not correct and updated the correct sentence in section A.1. 2. PP wants to clarify that as per PPA, the project electricity will be sold to NTPC and further NTPC can sell this electricity to any other discom. Hence the PP is generating Invoice to NTPC, same can be verified through Invoice. Also, this line is inline with registered PDD.				
Documentation provided by project developer				
1. Updated PDD 2. Invoice				
VVB assessment				Date: 1/11/2023
1. PP has corrected the statement and the statement provide the clarification on main purpose of the project activity. 2. PP has submitted the invoices and as per invoices the generated electricity is sold to NTPC only.				
CL 01 is closed.				

CL ID	02	Section no.	A.1.1. Eligibility of the project under Gold Standard	Date: 17/10/2023
Description of CL				
1. PP need to list down and provide explanation on all approvals obtained by the project regarding legal, environmental, ecological and social regulations. 2. In Host Country Requirements, PP need to provide justification of how the project is in compliance with the mentioned regulations. 3. As per section A.1.1, PP has not provided the GS cover letter to DOE. PP need to provide the same.				
Project developer response				Date: 31/10/2023

1. PP has added the approvals obtained by the projects prior to is commissioning in section A.1.1 of the PDD. PP is also providing ESIA report to verify environmental, ecological and social compliance by the project.
2. PP has added justification how the project is in compliance with the mentioned regulation in section A.1.1 of the PDD.
3. PP is providing GS cover letter to the DOE

Documentation provided by project developer

Cover letter
ESIA

VVB assessment

Date: 1/11/2023

1. PP has provided the gram panchayat clearance dated 31/12/2016, letter of Intent to NPTC dated 15/03/2016, nodal agency clearance dated 29/1/2019 and Environmental and Social Impact Assessment report to DOE. The ESIA report provide the fair compliance for legal, environmental, ecological and social regulations.
2. PP has added the compliance justification in section A.1.1.
3. PP has provided the GS cover letter to DOE.

CL 02 is closed.

CL ID	03	Section no.	A.3 Technologies and/or measures	Date: 17/10/2023
Description of CL				
During remote audit, the capacity of the solar PV modules found to be inconsistent with GS registered PDD. Provide clarification with needed supporting documents representing technical specifications.				
Project developer response				Date: 31/10/2023
The number of modules mentioned by the site person at the remote audit was different from the registered PDD because it also included extra inventory modules. These extra modules are spares required in cases of breakdown. The capacity and number of modules has already been verified at the time of design certification.				
Documentation provided by project developer				
Purchase order				
VVB assessment				Date: 1/11/2023
Solar PV module number and capacity found the in line with purchase order and the justification provided by PP in response of the auditee during site visit found to be acceptable. Hence, CL 03 is closed.				

CL ID	04	Section no.	A.3 Technologies and/or measures	Date: 17/10/2023
Description of CL				
During remote audit, metering equipment details found to be inconsistent. PP need to provide clear photos of each meter.				
Project developer response				Date: 31/10/2023
PP is providing Photographs of all meters related to the project activity. PP is also providing Calibration certificates to confirm the meter details.				
Documentation provided by project developer				

Meter photos.	
VVB assessment	Date: 1/11/2023
PP has submitted the photographs of the meters and makers of the ABT meters found to be in consistent. Hence, CL 04 is closed.	

CL ID	05	Section no.	B.6. Sustainable Development Goals (SDG) outcomes	Date: 17/10/2023
Description of CL				
During remote audit, it is found that, no female employee is working at the project location. PP need to provide the justification over the same. PP also need to provide the list of employees with ID, designation and their pay slips.				
Project developer response				Date: 31/10/2023
PP wants to clarify, the project results in employment of women in head offices. Women employment at the site is subjected to availability and requirement. PP is providing list of employees and sample payslips to the VVB.				
Documentation provided by project developer				
Employment records				
VVB assessment				Date: 1/11/2023
The justification over the no female employee working at project location found to be acceptable, while as per the submitted document, there are total 18 employees working at project location. The number of employees is greater than the estimated employment generation as per PDD, Hence CL is closed.				

CL ID	06	Section no.	B.7.1 Data and parameters to be monitored	Date: 17/10/2023
Description of CL				
SDG 8: Decent Work and Economic Growth As QA/QC procedure, PP need to provide the daily attendance register.				
Project developer response				Date: 31/10/2023
PP is providing daily attendance register.				
Documentation provided by project developer				
Daily attendance register.				
VVB assessment				Date: 1/11/2023
PP has provided the daily attendance register, in which the number of employees is greater than the estimated employment generation as per PDD. Hence, CL is closed.				

CL ID	07	Section no.	Appendix 2	Date: 17/10/2023
Description of CL				
During remote audit, its been confirmed that the Prayatna Developers Private Limited is taken over by Adani Green Energy Limited. PP need to provide supporting docs for change in project developer. (Legal ownership change proof.)				

Project developer response	Date: 31/10/2023
PP is providing supporting documents to show legal ownership change. Same can be verified through the publicly available article at https://www.indiaonline.com/company/adani-green-energy-ltd/summary/70666 . The article states "As per the Scheme, 100% investment of AEL into Equity Shares of Prayatna Developers Private Limited (PDPL) was transferred to AGEL with effect from the appointed date i.e. 1 April 2018"	
Documentation provided by project developer	
Acquisition documents	
VVB assessment	Date: 1/11/2023
PP has provided the Acquisition documents. CL is closed.	

CAR from this verification

CAR ID	01	Section no.	B.2. Applicability of methodology	Date: 17/10/2023
Description of CAR				
Tool to calculate the emission factor for an electricity system - Version 07.0 (EB 100 annex 4)				
Applicability Criterion 2: PP stated that "Steps involved in calculation of Emission Factor is included in PDD as per the requirement of the tool" which does not provide justification over the applicability of its use. PP need to provide the same.				
Project developer response				Date: 31/10/2023
PP has corrected the response of applicability criteria 2 of Tool 07 in section B.2 of the PDD.				
Documentation provided by project developer				
VVB assessment				Date: 1/11/2023
PP has provided the justification over the Applicability Criterion 2: PP stated that "Steps involved in calculation of Emission Factor is included in PDD as per the requirement of the tool.				
Hence, CAR 01 is closed				

CAR ID	02	Section no.	B.4. Establishment and description of baseline scenario	Date: 17/10/2023
Description of CAR				
In section B.4. Establishment and description of baseline scenario of PDD, PP need to provide more information on how baseline scenarios are in compliance with all national policies.				
Project developer response				Date: 31/10/2023
In section B.4, PP has added information of all the clearances the project had received prior to its installation making it compliant with all mandatory national policies.				
Documentation provided by project developer				
Clarence certificates.				
VVB assessment				Date: 1/11/2023
PP has corrected the sentence and provided the clearance certificates. Hence, CAR is closed.				

CAR ID	03	Section no.	B.6.1 Explanation of methodological choices/approaches for estimating the SDG Impact	Date: 17/10/2023
Description of CAR				

Inconsistency found in the electricity monitoring public entity. As per the statement, supplied electricity is monitored by TANGEDCO (Tamil Nadu Generation and Distribution Corporation Limited) but the location of plant is in UP. PP need to correct the inconsistency.

Project developer response

Date: 31/10/2023

PP has corrected the inconsistency. The PDD now mentions "Monthly Meter reading is provided by UPPTCL Jhansi on monthly basis".

Documentation provided by project developer

VVB assessment

Date: 1/11/2023

PP has corrected the inconsistencies. **Hence, CAR is closed.**

CAR ID	04	Section no.	B.7.1 Data and parameters to be monitored	Date: 17/10/2023
--------	----	-------------	---	------------------

Description of CAR

SDG 7: Affordable and Clean Energy

1. Inconsistency found in the electricity monitoring public entity. As per the statement, supplied electricity is monitored by TSSPDCL Nalgonda but the location of plant is in Mahoba, UP. PP need to correct the inconsistency.
2. The number of meters installed at location is inconsistent with the table.

S.No.	Make	Sub-Station	Solar Plant End
1	Manufacturer	L&T Make	L&T Make
2	Type	ABT meters	ABT meters
3	Accuracy Level	0.2s	0.2s
4	Total no of meter	2	5*2 = 10

3. Manufactures of the meters located at substation found to be inconsistent with GS registered PDD version 5.0 dated 10/12/2020.

Project developer response

Date: 31/10/2023

1. Section B.7.1 has been updated with correct monitoring entity name. The monitoring plan now mentions "Monthly Meter reading reports provided by UPPTCL Jhansi"
2. The number of meters has been corrected to 12, making it consistent with the table.
3. As per PDD version 5.0 dated 10/12/2020, the specification of meters is as follows -

S.No.	Make	Sub-Station	Solar Plant End
1	Manufacturer	L&T Make	L&T Make
2	Type	ABT meters	ABT meters
3	Accuracy Level	0.2s	0.2s
4	Total no of meter	2	5*2 = 10

This is consistent with RCP PDD.

Documentation provided by project developer

VVB assessment

Date: 1/11/2023

1. PP has corrected the name of monitoring entity and now it is consistent with registered PDD.
2. PP has corrected the number of meters.
3. PP has removed the inconsistencies in makers of the meters.

Hence, CAR is closed.

CAR ID	05	Section no.	B.7.1 Data and parameters to be monitored and Table 1	Date: 17/10/2023
Description of CAR				
SDG 8: Decent Work and Economic Growth				
1. The number of employees found to be inconsistent throughout the PDD. PP need to correct the inconsistency.				
Project developer response				Date: 31/10/2023
Number of employees has been made consistent with throughout the PDD.				
Documentation provided by project developer				
VVB assessment				Date: 1/11/2023
PP has corrected in inconsistencies in the PD. Hence, CAR is closed.				

CAR ID	06	Section no.	Appendix 3 and 4	Date: 17/10/2023
Description of CAR				
PP need to provide appropriate responses in Appendix 3 and 4.				
Project developer response				Date: 31/10/2023
Responses of Not applicable has been added to Appendix 3 and 4 of the PDD.				
Documentation provided by project developer				
VVB assessment				Date: 1/11/2023
PP has provided the responses in Appendix 3 and 4. Hence, CAR is closed.				

CAR ID	07	Section no.	Appendix 1	Date: 17/10/2023
Description of CAR				

PP need to provide appropriate responses in the section.

P.4.2.1: temporary or permanent and full or partial physical displacement (including people without legally recognisable claims to land)?

P.4.4.1: impacts (positive or negative) to the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples?

P.6.1.3: Does the project violate national laws, if available regarding non-discrimination in employment?

P.9.3.1: Does the project involve the transfer, handling, and use of genetically modified organisms/living modified organisms that may result in adverse effects on biological diversity?

P.9.3.1: If answer to above question is "yes" has a risk assessment by a competent Expert stakeholder been carried out in accordance with Annex iii of the Cartagena protocol on biosafety to the convention on biological diversity?

P.9.4.1: Does the project have a risk of releasing pollutants to air, water, and land in routine, non-routine, or accidental circumstances?

Project developer response	Date: 31/10/2023
----------------------------	------------------

PP has added appropriate response to each of these findings in appendix 1 of the PDD.

Documentation provided by project developer

VVB assessment	Date: 1/11/2023
----------------	-----------------

PP has provided responses and they found to be in line. **Hence, CAR is closed.**

FAR from this verification

FAR ID	01	Section no.	Date: DD/MM/YYYY
Description of FAR			
NA			
Project developer response			Date: DD/MM/YYYY
Documentation provided by project developer			
VVB assessment			Date: DD/MM/YYYY

Information Reference List

No.	Author	Title	References to the document
1	M/S Prayatna Developers Pvt. Ltd	Registered GS-PDD	Version 5.0 1/11/2020
2	M/S Prayatna Developers Pvt. Ltd	GS-PDD for the 2 nd CP	Version 1.0 5/9/2023
3	M/S Prayatna Developers Pvt. Ltd	GS-PDD for the 2 nd CP	Version 2.0 03/09/2023
4	UNFCCC	Methodology ACM0002	Version 21
5	Gold Standard	The Gold Standard global goals principles & requirements	Version 1.2 of 23/10/2019
6	M/S Prayatna Developers Pvt. Ltd	ER calculation sheet	Version 1
7	M/S Prayatna Developers Pvt. Ltd	OFN	Version 2
8	M/S Prayatna Developers Pvt. Ltd	SDG Impact tool	Version 1
9	M/S Prayatna Developers Pvt. Ltd	JMR Excel Sheet	
10	Gold Standard	- Validation and Verification Standard	Version 1.0
11	Gold Standard	Renewable Energy activity requirements	Version 1.4
12	Gold Standard	Site Visit and Remote Audit Requirements and Procedures	Version 2.0
13	Gold Standard	Safeguarding Principles and Requirements	Version 2.1
14	UNFCCC	Tool for the demonstration and assessment of additionality	Version 7.0

15	UNFCCC	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
16	UNFCCC	Tool to calculate emission factors for an electricity system	Version 7.0
17	Google Earth	Location of the plant	