



VCS JOINT VALIDATION & VERIFICATION REPORT FOR RIDI GROUPED HYDRO SOLAR POWER PROJECT IN NEPAL



Document Prepared by TÜV SÜD South Asia Pvt Ltd

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Summary:

TÜV SÜD has performed joint validation and first verification for current monitoring period from 22-August-2021 to 31-May-2023 of grouped project titled as RIDI GROUPED HYDRO SOLAR POWER PROJECT IN NEPAL ('the Project') which is listed under VCS registry with project ID 4234 started on 22-August-2021. Initially the project was listed in the VERRA with following instances:

Instance	Project	Capacity	Technology
Instance 1	Ingwa Hydro Power Limited - Upper Ingwa	9.70 MW	Hydro Electric Project
Instance 2	Kaberi B1 Cascade	9.70 MW	Hydro Electric Project

Instance 3	Chandrapur Solar	4.00 MW	Solar
Instance 4	Dhalkeber Solar	1.00 MW	Solar
Instance 5	Simara Solar	1.00 MW	Solar

However, during post registration review stage, PP has removed “Instance 1” and decided to move ahead with remaining 4 instances.

TÜV SÜD has performed joint validation and first verification as per the requirements of section 4 of VCS Standard Version 4.4 following the guidance of Validation and Verification Manual. Validation & Verification Team has used risk-based approach to provide conformance with ISO 14064-3 and ISO 14065. Validation & Verification Team has conducted independent assessment of estimated and actual GHG statement of emission reductions and removals that have occurred as a result of the project implementation during this monitoring period to be materially correct and conform claim against the requirements of VCS Program rules and applied methodology.

Validation & Verification Team has validated and verified that the statement of historical data and information of the project to a reasonable level of assurance and ensures that the project meets the relevant materiality requirements (misrepresentation<5% for small scale project) through means of onsite assessment as per the audit criteria. Validation & Verification Team has not identified any uncertainties which might impact GHG statement of emission reductions and removals as result of risk-based approach.

During joint validation and first verification for the current monitoring period from 22-August-2021 to 31-May-2023 of grouped project titled as RIDI GROUPED HYDRO SOLAR POWER PROJECT IN NEPAL (‘the Project’) which is listed under VCS registry with project ID 4234, 17 Clarification Requests (CL), 56 Corrective Action Requests (CARs) and 01 Forward Action Requests (FARs) are raised, addressed and closed out by VVB.

Based upon the conclusion of objective evaluation process against the criteria of applicable methodology and project standard under the scope of validation and verification Herby, TÜV SÜD concludes that RIDI GROUPED HYDRO SOLAR POWER PROJECT IN NEPAL (‘the Project’) which is listed under VCS registry with project ID 4234, has achieved the actual GHG Emission Reductions 18,974 tCO₂e through electricity generation during the current monitoring period from 22-August-2021 to 31-May-2023 whereas annually estimated GHG Emission Reductions are 40,295 tCO₂e.

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1 INTRODUCTION

1.1 Objective

TÜV SÜD has been engaged by the client to perform an independent joint validation first verification assessment. The objective of the verification work is to comply with the requirements of Verified Carbon Standards requirements.

Validation & Verification Team's objective is to ensure that:

- Validation of project activity to conform eligibility against the requirements of VCS program.
- Evaluation of the reasonableness of assumptions, limitations, and methods in order to assess and determine whether the project and its GHG statement conforms with the VCS Program rules for future activities.
- Assessment of appropriateness of applied methodology, methodological tools and applicable methodological regulatory in accordance with the VCS program rules and requirements.
- Project activity has been implemented and operated as per description in PD-MR, and that all physical features (technology, project equipment, monitoring and metering equipment) of the project are in place.
- Published PD-MR and associate objective evidence provided are sufficient, verifiable and in accordance with applicable VCS rules and requirements.
- Actual monitoring systems and procedures comply with the monitoring systems and procedures described in the registered monitoring plan and the approved methodology.
- Objective Information is recorded and preserved as per the applicable requirements.
- Assessment of the sustainability monitoring parameters as per the VCS Program rules.

1.2 Scope and Criteria

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

- VCS standard version 4.4 requirements.
- Baselines and monitoring methodologies (including GHG inventories).
- Environmental issues relevant to the applicable sectoral scope.
- Current technical and operational knowledge of the specific sectoral scope and information on best practice.
- Stakeholder consultation and feedback

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

1.3 Reasonableness of Assumptions and Level of Assurance

The assumptions, limitations, and methods to support any statements are assessed against the requirements of VCS program guide, VCS Standard version 4.4 and applied methodology/methodological tools. The errors identified in the project are within threshold limit of materiality as per the conclusion of assessment under scope of joint validation and verification hence, GHG emission reductions are calculated without material misstatements. The VVB confirms that a reasonable level of assurance has been achieved during the validation and verification process.

1.4 Summary Description of the Project

This project activity is identified as grouped activity consist of five instance which involves electricity generation via utilizing the solar and hydropower through installation of combined capacity of 15.94 MW in Nepal under ownership of, RIDI POWER COMPANY LIMITED, Arun Valley Hydropower Development Company Limited, API Power Company Limited where EKI energy services limited is

project participant and project developer. Details of project activity instances is given below in the **Table 1.4.1**.

Table 1.4.1 Summary of Project Activity Instances capacity, technology and physical location

Name of Instances	Capacity (MW)	Technology	Country	Location	District
Arun Valley Hydropower Development Company Limited- Kaberi-B1 Cascade	9.94	Hydro	Nepal	Ambarpur, Nagi	Pachthar
Api Power Company Limited- ISSPL	4.0	Solar	Nepal	Chandranigahpur	Rautahat
Api Power Company Limited – Dhalekbar solar	1.0	Solar	Nepal	Dhalkebar	Dhanusa
Api Power Company Limited - Simara Solar	1.0	Solar	Nepal	Simara	Parsa

The proposed activity intends to provide clean energy in sustainable manner by reducing GHG emissions anthropogenic emissions of greenhouse gases into the atmosphere which would have been generated otherwise via common practice of fossil fuel-based power generation in absence of this project activity. Over a first crediting period project activity is expected to achieve annual estimated emission reductions of 19,547 tCO₂e.

2 VALIDATION AND VERIFICATION PROCESS

2.1 Method and Criteria

The information provided by the project participants is assessed by applying the means of validation and verification to conform compliance with specified in the VCS Standard Version 4.4 following ISO 14064-3 and ISO 14065 using risk-based process.

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

Table 2.2.1 Composition of Team under scope of Validation and Verification

Role/Qualification	Last Name	First Name
Team Leader	Kudtarkar	Shruti ¹
Validator & Verifier	Kudtarkar	Shruti
Technical Expert	Kudtarkar	Shruti
Trainee Validator & Verifier	Chauhan	Ankita ²
Team Leader	Raychoudhury	Rishi
Validator & Verifier	Raychoudhury	Rishi
Technical Expert	Raychoudhury	Rishi
Trainee Validator & Verifier	Amin	Shardul
Trainee Validator & Verifier	Trivedi	Brij
Technical Reviewer	K	Sudheendra

The Validation & Verification team performs evidence gathering and desk review to evaluate the assumptions, limitations, and methods that support a statement in reasonable manner about the outcome of future activities in order to determine

¹ She has worked till 17/07/2024

² She has worked till 10/04/2024

conformance with VCS program and rules also, to verify historical data and information meets reasonable level of assurance to assess relevant materiality requirements and fulfillment by the project activity.

Following direct communication followed by on-site visit of facilities and project area and verification of project related objective evidence with respect to project Implementation and operation to conform compliance of project activity against the requirement of VCS program and applied methodology via assessing aggregation, representation and reporting of GHG emission reductions and/or removals and associated qualitative information which results in assessment conclusion and formation of a draft joint validation and report. This joint validation and report and other supporting documents then undergo an internal quality control by the Certification Body of “Environment and Energy” before submission to the VCS. In case any deviation is proposed or identified Validation & Verification team evaluates the request for deviation as per guidance in VCS program guide version 4.3 and VCS Standard Version 4.4.

2.2 Document Review

Desk review is carried out by Validation & Verification Team to confirm sufficiency of evidence and associated data and information to be verified for project development stage, project implementation phase and current monitoring period through completeness check (i.e., identification of source and nature of objective evidence). Validation & Verification Team reviewed project description, details of project proponents, geospatial information of project i.e., site numbers and locations, development and implementation of project activity, development of monitoring plan and implementation, applied methodologies, applied regulatory documents, measurement frequency of monitored parameters, calibration frequency of monitoring equipment. Also, reviewed and evaluated quality assurance and quality control procedures with respect to their influence on generation and reporting of GHG emission reductions or net anthropogenic GHG removals.

Documents reviewed to verify objective evidence for joint validation and first verification:

- Project Design-Monitoring Report (PD-MR).
- Associated Emission Reductions calculation data and information, criteria established in monitoring report against requirements of Applied methodologies other applied methodological regulatory documents.
- Proof of Commissioning.
- Calibration records.
- System, technology and equipment installed at project site.
- Logbook and records of monitoring and measurement, supply/consumption related invoices
- Quality assurance and quality control procedures.

Validation & Verification Team crosschecked PD-MR information with respect to objective evidence to determine whether the provided quantitative are accurate, refer to List of review document in Appendix [2] for the same.

2.3 Interviews

Validation & Verification Team has conducted interviews during site visit to discuss with respective personnel to verify the data and records pertaining to project activity under scope of validation and verification in successfully manner.

Table 3.3.1 Summary of conduct of on-site interviews under scope of validation and verification

S.N.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Agrahari	Aditya	Civil Engineer at API Power Company	05/07/2021 to 07/07/2023	Project Implementation , Operations, Monitoring & Measurement	Shruti Kudtarkar and Ankita Chauhan
2.	Chaulagain	Sandesh	Electrical Engineer at API Power Company	05/07/2021 to 07/07/2023	Project Implementation , Operations, Monitoring & Measurement	Shruti Kudtarkar and Ankita Chauhan
3.	Kr. Mahto	Ashok	Engineer at API Power Company	05/07/2021 to 07/07/2023	Project Implementation , Operations, Monitoring & Measurement	Shruti Kudtarkar and Ankita Chauhan

2.4 Site Visits

Validation & Verification Team has performed on-site assessment on 05/07/2021 to 07/07/2023 fulfilling all the criteria of section 4 of VCS Standard Version 4.4 as per guidance of Validation and Verification Manual following stepwise standard auditing techniques as below:

- Assessed Implementation and operation of RIDI GROUPED HYDRO SOLAR POWER PROJECT IN NEPAL ('the Project') in accordance with the PD-MR and confirmed during on-site assessment.

Project activities are located at Taplejung, Pachthar, Rautahat, Dhanusa and Parsa.

Table 2.4.1 Summary of physical location for on-site assessment of project facilities

Project Identity	Installation Capacity (MW)	Physical Location
Kaberi-B1 Cascade	9.94	Amrapur, Pachthar Negi, Nepal
ISSPL	4	Chandranigahpur, Rautahat , Nepal
Dhalekbar solar	1	Dhalkebar, Dhanusa, Nepal
Simara Solar	1	Simara, Parsa, Nepal

- Validated the project implementation against the reporting in PD-MR.
- Cross-checked the ownership and facility details against the reporting in PD-MR.
- Validated the technology, system, equipment specifications against the reporting in PD-MR.
- Reviewed information flows for generating, aggregating and reporting monitoring parameters and confirmed during on-site assessment.
- Interviewed with relevant personnel to determine whether operational and data collection procedures are implemented in accordance with registered monitoring plan/validated permanent changes to monitoring plan during on-site assessment.
- Cross checked between information provided in monitoring report and data from consolidated in ER (Emission Reductions) sheets sourced from plant logbooks, inventories, purchase records and confirmed during on-site assessment.
- Checked monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD-MR, the applied methodologies and the other applied methodological regulatory documents which is to be confirmed during on-site assessment.
- Reviewed calculations and assumptions made in determining the GHG data and GHG emission reductions or net anthropogenic GHG removals.

- Identified quality control and quality assurance procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters.

2.5 Resolution of Findings

Validation & Verification Team raised 17 Clarification Requests (CL), 56 Corrective Action Requests (CARs) and 01 Forward Action Requests (FARs) on 07-July-2023 under scope of joint validation and verification of grouped project titled as RIDI GROUPE HYDRO SOLAR POWER PROJECT IN NEPAL ('the Project') which is listed under VCS registry with project ID 4234. Validation & Verification Team has followed the VCS standard requirements to evaluate the PP's response to respective individual CL, CAR and FAR and successful closing of the same. Refer to Appendix [1] of details on description, PP's response and conclusion of VVB's assessment for each CL/CARs/FAR.

2.5.1 Forward Action Requests

As it is the Joint validation and first verification there are no previous FARs to be identified by Validation & Verification Team.

3 VALIDATION FINDINGS

3.1 Project Details

Validation & Verification Team has identified this project activity is as grouped activity consist of five instance which involves electricity generation via utilizing the solar and hydropower through installation of combined capacity of 15.94 MW in Nepal under ownership of RIDI POWER COMPANY LIMITED, Arun Valley Hydropower Development Company Limited, API Power Company Limited where EKI energy services limited is project participant and project developer. Details of Project Activity instances are given below in **Table 3.1.1**. Where, electricity generated is supplied to sub-stations of NEA.

Table 3.1.1 Summary of Project Activity Instances capacity, technology and physical location

Name of Instances	Capacity (MW)	Technology	Country	Location	District
Arun Valley Hydropower Development Company Limited- Kaberi-B1 Cascade	9.94	Hydro	Nepal	Ambarpur, Nagi	Pachthar
Api Power Company Limited- ISSPL	4.0	Solar	Nepal	Chandranigahpur	Rautahat
Api Power Company Limited – Dhalekbar solar	1.0	Solar	Nepal	Dhalkebar	Dhanusa
Api Power Company Limited - Simara Solar	1.0	Solar	Nepal	Simara	Parsa

As per the submitted PD-MR the PPs are EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Arun Valley Hydropower Development Company Limited, API Power Company Limited where EKI Energy Services Limited (whereas EKI Energy Services Limited is holding the right for communication on behalf of registry user as per “Verra-Registry-Communications-Agreement-multiple-PPs.”).

Validation & Verification has assessed and verified the technology and measures implemented by RIDI POWER COMPANY LIMITED, Limited, Arun Valley Hydropower Development Company Limited, Api Power Company Limited For the grouped project and same are cross checked with the objective evidence through desk review and on-site assessment.

Table 3.1. Summary of Project Activity ownership and commissioning details

SPV Name	Instance name	Site Name	Date of Commissioning
	Arun Valley Hydropower Development Company Limited	Kaberi B1 Cascade 9.94 MW	26-03-2022
		Dhalkebar Solar 1 MW	16-01-2022
	Api Power Company Limited	Chandranigahpur Solar 4 MW	22-08-2021
		Simara Solar 1 MW	24-07-2022

Validation & Verification Team has assessed the eligibility of the project under scope of VCS program against the requirement of section 2 of VCS standard and same is found in line.

Validation & Verification Team has identified and adequacy of response against the eligibility criteria of this grouped project VCS standard version 4.4 and applied methodology conclusion upon the same is stated below as per the response provided:

Table 3.3.1 Assessment of eligibility criteria for grouped project activity

S.N.	Eligibility Criteria	Conclusion of Validation and Verification Team
New Project Activity Instance Eligibility Criteria		
1.	Meet the applicability conditions set out in the methodology applied to the project.	The proposed grouped project activity satisfies all applicability criteria of applied methodology AMS I.D Version 18.0.
2.	Use the technologies or measures specified in the project description	The proposed grouped project activity instance is utilizing solar and hydropower technology for energy generation where electricity is supplied to national grid.

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- | | |
|---|--|
| <p>3. Apply the technologies or measures in the same manner as specified in the project description.</p> | <p>The proposed group project activity instances are utilizing either solar or hydropower technology for energy generation where electricity is supplied to national grid.</p> |
| <p>4. Are subject to the baseline scenario determined in the project description for the specified project activity and geographic area.</p> | <p>All project activity instances of grouped activity are based upon solar and hydro power utilized to supply electricity to national grid hence, the similar baseline scenario is applied as per the project description.</p> |
| <p>5. Have characteristics with respect to additionality that are consistent with the initial instances for the specified project activity and geographic area. For example, the new project activity instances have financial, technical and/or other parameters (such as the size/scale of the instances) consistent with the initial instances, or face the same investment, technological and/or other barriers as the initial instances.</p> | <p>All project activity instances of grouped activity have applied the same characteristics against the requirement of 'Guidelines on the demonstration of Additionality of small-scale Project Activity' (version 9.0) hence having similar technical or/and financial or/and other parameters also, having same investment, technological and/or other barriers.</p> |
| <p>6. Where a capacity limit applies to a project activity included in the project, no project activity instance shall exceed such limit. Further, no single cluster of project activity instances shall exceed the capacity limit, determined as follows:</p> <p>Each project activity instance that exceeds one percent of the capacity limit shall be identified.</p> <p>Such instances shall be divided into clusters, whereby each cluster</p> | <p>All project activity instances are located within geographic boundaries in Nepal hence it meets the applicability criteria. As each project activity is less than 15 MW capacity hence, same is in accordance with the capacity limit criteria.</p> |
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is comprised of any system of instances such that each instance is within one kilometre of at least one other instance in the cluster. Instances that are not within one kilometres of any other instance shall not be assigned to clusters.

None of the clusters shall exceed the capacity limit and no further project activity instances shall be added to the project that would cause any of the clusters to exceed the capacity limit.

Inclusion of New Project Activity Instances

New project activity instances shall occur within one of the designated geographic areas specified in the project description.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall Conform with at least one complete set of eligibility criteria for the inclusion of new project activity instances. Partial conformance with multiple sets of eligibility criteria is insufficient.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall be included in the monitoring report with sufficient technical, financial, geographic, and other relevant information to demonstrate conformance with the applicable set of eligibility criteria and enable evidence gathering by the validation/verification body.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall be included in an updated project description, with updated project location information (as set out in Section 3.11 of VCS standard version 4.4), which shall be validated at the time of verification against the applicable set of eligibility criteria.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall have evidence of project ownership, in respect of each project activity instance, held by the project proponent from the respective start date of each project activity instance (i.e., the date upon which the project activity instance began reducing or removing GHG emissions).

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall have a start date that is the same as or later than the grouped project start date.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall be eligible for crediting from the start date of the project activity instance through to the end of the project crediting period (only).

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall only eligible for crediting from the start of the verification period in which they were added to the grouped project.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall not be or have been enrolled in another VCS project.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall adhere to the clustering and capacity limit requirements for multiple project activity instances set out in 3.6.8 - 3.6.9 of VCS standard version 4.4.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

New project activity instances shall have a start date that is the same as or later than the grouped project start date.

As this the first validation and joint verification no new instance is added to the grouped project activity for current monitoring period.

EKI Energy Services Limited is responsible for project development. Legal ownership is held by of RIDI POWER COMPANY LIMITED, Arun Valley Hydropower Development Company Limited, API Power Company Limited. EKI Energy Services Limited is authorized by PPs as project participant and project developer of solar and hydro power plants. The commissioning certificates for project activity instance are the supporting documents to demonstrate the project ownership.

Validation & Verification Team has assessed and validated that the project start date for this project activity is 22-August-2021 as per the submitted objective evidence.

Project activity crediting period is following 22-August-2021 to (Start date) to 21-August-2028 (End date) Grouped project activity is identified as "Project scale" whereas it is estimated to remove GHG emissions reduction of between 20,000 – 100,000 tCO₂e/year as per the Section no 3.10.1 of VCS standard version 4.4.

The Geographical location of Grouped project activity is given below in the Table:

Table 4.1.1 Summary of location for project instances under scope of validation and verification

Project Identity	Installation Capacity (MW)	Physical Location
Kaberi-B1 Cascade, hydro power	9.94	Ambrapur, Pachthar Negi, Nepal
Chandranigahpur solar, ISSPL	4	Chandranigahpur, Rautahat , Nepal
Dhalkebar, solar	1	Dhalkebar, Dhanusa, Nepal
Simara, Solar	1	Simara, Parsa, Nepal



Figure 3.1.1 Map of project activity instance containing details of plants

Validation & Verification Team has evaluated and found it accurate that proposed project activity is a greenfield project activity whereas in the baseline (as per applied methodology) equivalent amount of electricity would have been generated through Intensive connected Indian grid which further contributes to rise of GHG emissions in the atmosphere. As the Nepal power grid is connected

to Indian grid which is fossil fuel intensive whereas Nepal grid is not so the EF is take zero however, baseline scenario is justified as per India grid consideration in accordance with the methodology.

Validation & Verification Team found the response appropriate that during the project development phase and commissioning process respective requirement of laws, statutes are fulfilled by project activity instances. Also, there are no additional requirements on implementation of specified technology apart from commissioning as per National guidelines.

Validation & Verification Team conforms that proposed grouped project activity neither has been registered/seeking registration under any other GHG programs nor it is has been rejected under any other GHG programs. Also, Validation & Verification Team conforms that initial project activity instances are neither registered/being part of project activity in any other GHG program nor it has been rejected by any other GHG programs.

Validation & Verification Team conforms that neither the proposed project activity is not participating in any other Emission trading program and other binding limits nor the project activity instances participating in any other Emission trading program and other binding limits hence, Emission Reductions claimed under current monitoring are not used as carbon credit claims/GHG's emission reduction claims under any other mechanism.

Validation and Verification Team conforms that proposed grouped project activity neither has generate any other form of GHG related environmental credit for GHG emission reductions/removals claimed under the VCS Program nor initial project activity instances have generate any other form of GHG related environmental credit for GHG emission reductions/ removals claimed under the VCS Program. Also, audit team confirm that the PP holds exclusive rights to all Verified Carbon Units (VCUs) generated by the solar power project, as per the power purchase agreement with Nepal Electricity Authority (NEA). The PP is the sole owner of VCUs throughout the supply chain, as evidenced by contractual terms that prevent NEA from claiming or reselling any emission reductions linked to the project. Upstream suppliers, such as Solar PV producers and retailers, supply equipment under standard purchase orders without any VCU-sharing agreements which ensures that emission reductions are solely attributable to the PP.

Validation & Verifications team has assessed and concluded that there are no leakage emissions associated with the proposed grouped project activity as per the requirement of applied AMS.I.D, Version 18. Also, no commercially sensitive information is reported in PD-MR by PP under the scope of joint validation and verification also no other additional information provided in PD-MR which might be useful apart from regular evidence as per VCS standard version 4.4 or/and applied methodology.

Validation & Verification Team has assessed the contribution of grouped project activity toward Sustainable Development Goals during current monitoring period and expected during the complete project cycle (for now first crediting period) described in PD-MR for SDG Target 7.2, 8.6 and 13.2.

Table 5.1.2 Assessment of grouped project for contribution toward SDGs

SDG Target	SDG Indicator	Conclusion of VVB
7.2	7.2.1 Renewable energy share in the total final energy consumption	VVB has assessed and concluded that the grouped project activity has supplied 83,408 MWh during current monitoring period.
8.5	8.5.1 Average hourly earnings of employees, by sex, age, occupation and persons with disabilities	VVB has assessed the minimum wage requirement as per the minimum wage and labor law. Additionally, the salary slips have been checked which has been found that PP has been following the minimum wage requirement.
13.0	13.2.2 Total greenhouse gas emissions per year	PP has correctly applied the indicator where the greenhouse gas emissions will be avoided through generation of clean electricity. VVB has assessed and concluded that the grouped project activity has avoided release of 18,234 tCO ₂ e during current monitoring period.

Validation & Verification Team conforms that PP has provided the project description in accordance with the PD-MR template latest requirement where information is accurate and well described upon the nature of project and implementation status is found in accordance with the project description. Validation & Verification Team has assessed the relevant assumption associated with estimated GHG emission reduction or removals which might vary from estimate one as project is having solar and hydro power technology for energy generation which might vary depending upon natural cause resulting into flow pattern of water body or/and seasonal variation in availability of sunlight as per seasonal variation.

3.2 Participation under Other GHG Programs

Validation & Verification Team conforms that project is not registered under any other approved GHG program hence, no gap validation or/and eligibility assessment in such context required for this project activity.

3.3 Safeguards

3.3.1 No Net Harm

Validation & Verification Team assessed that proposed grouped project activity promotes clean energy technology for which project emissions are considered zero as per applied methodology AMS.I.D, Version 18 also no environmental or social risk were identified which could cause any harm to environment. Same is validated during Local Stakeholder interviews during on-site assessment and concluded based upon the feedback received that the grouped project activity does not cause any net harm. However, Environmental Management Plan, which includes relevant mitigation measures, monitoring procedures and responsibilities, is provided in the Environmental Assessment Report.

3.3.2 Local Stakeholder Consultation

As per the VCS requirements, it is necessary to invite the relevant stakeholders, prior of the validation process. Moreover, the stakeholder meeting took place prior to the start date of the project activity which fulfil the requirement of VCS standard 4.4. The Validation & Verification Team checked the relevance of the dates during the on-site assessment. The details of meeting are as given below:

Project Name	Date of Invitation	Date of LSC	Venue
Kaberi B1 Cascade	28- May-2017	02-June-2017	Hilihang VDC & Amarpur VDC, Panchthar District. Yangwarak VDC Taplejung District
Dahlkebar Solar	22-August-2018	27-August-2018	Dhalkebar, Mithila Municipality, Dhanusa district
Chandranighapur Solar	10-August-2018	22-August-2018	Chandrapur Municipality Ward No. 5 Rautahat
Simara Solar	22-August-2018	27-August-2018	Simara district

Feedback received by representative of RIDI Power Limited (Project Investor) during LSC:

- During the implementation of the project, employment opportunities should be provided to skilled and unskilled workers at the local level.
- Special attention should be paid to the use of local agriculture products during project implementation.
- Proper attention should be paid to the protection of forest and wildlife habitats damaged by the project.
- The project should take special initiatives for the protection of religious places.
- The project should be completed within the time limit as much as possible.
- The project should provide shares to locals.

Validation & Verification Team has evaluated the response to the Q&A session conducted and conforms that PP has addressed the relevance of project activity to local stakeholders and seeking positive/negative feedback on development and implementation of project activity on their daily life. Validation & Verification Team has also interviewed some of the Local Stakeholder and validated the PD-MR information given in LSC section was found authentic.

3.3.3 Environmental Impact

Validation & Verification Team has assessed and conformed that environmental impacts of this project activity are negative. Even though, PP has developed the mitigation plan for identified risk in accordance with the planning in EIA-IEE (Initial Environmental Examination) report specifically for protection of rich cultural heritage sites and support on impacted localized area due to construction.

3.3.4 Public Comments

Validation & Verification Team conforms that no public comments are received to be received by VVB/PP during period of 30 days for Global Stakeholder Consultation on VERRA official website dating from 13-May-2023 to 12-May-2023.

3.3.5 AFOLU-Specific Safeguards

Validation & Verification Team conforms that proposed project activity does not fall under AFOLU category hence, VVB is not required to assess the compliance of PD-MR for this section against the requirement of VCS standard version 4.4.

3.4 Application of Methodology

3.4.1 Title and Reference

As per the requirement of VCS standard version 4.4 PP has applied the below methodology to this project activity which is found valid under the scope of joint validation and verification:

Title- AMS-I.D.: Grid connected renewable electricity generation (Version 18.0)

URL Reference-

<<https://cdm.unfccc.int/methodologies/DB/W3TINZ7KKWCK7L8WTXFQQOFQ QH4SBK> >

Tools-

- Tool7 to calculate the emission factor for an electricity system, Version 7.0
- Tool21 for the demonstration and assessment of additionality, Version 13.1
- Tool27 for Investment Analysis, Version 09.0

3.4.2 Applicability

Validation & Verification Team has assessed response against the criteria of AMS I.D, Version 18.0 for the proposed grouped project activity, below is the evaluation result and conclusion for respective criteria.

Table 3.4.2.1 Assessment of applicability conditions as per applied methodology and tools

S.N.	Applicability Condition of AMS I.D, Version 18.0	Conclusion of Validation & Verification Team
1.	This methodology is applicable to project activities that: (a) Install a Greenfield plant; (b) Involve a capacity addition in (an) existing plant(s); (c) Involve a retrofit of (an) existing plant(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)	Validation & Verification Team has assessed that proposed project activity falls under category (a) as there was not project activity existed operating before that start of this project activity as per the IEE reports. Hence, it concludes that applicability condition is met by proposed grouped project activity.
2.	Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology: (a)The project activity is implemented in an existing reservoir with no change in the volume of reservoir (b)The project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density of the project activity,	Validation & Verification Team has assessed that proposed project activity falls consist of solar power and run of river hydro power technology. Hence, it concludes that applicability condition is not applicable to proposed grouped project activity.

as per definitions given in the project emissions section, is greater than 4 W/m²

(c)The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m²

- | | | |
|----|---|--|
| 3 | If the new unit has both renewable and non-renewable components (e.g. a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW. | Validation & Verification Team has assessed that proposed project activity does not have any non-renewable component, it is categorized as a greenfield. Hence, it concludes that applicability condition is not applicable to proposed grouped project activity |
| 4 | Combined heat and power (co-generation) systems are not eligible under this category. | Validation & Verification Team has assessed that proposed project activity does not consist of Combined heat and power (co-generation) systems. Hence, it concludes that applicability condition is not applicable to proposed grouped project activity. |
| 5. | In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct ¹ from the existing units. | Validation & Verification Team has assessed and concluded that there is no capacity addition of renewable energy generation units at an existing renewable power generation facility hence, criteria is not applicable. |
| 6. | In the case of retrofit, rehabilitation or replacement, to qualify as a small-scale project, the total output of the retrofitted, rehabilitated or | Validation & Verification Team has assessed that proposed project activity is not having case of retrofit, rehabilitation or replacement. Hence, it concludes that applicability condition is |

	replacement power plant/unit shall not exceed the limit of 15 MW	not applicable to proposed grouped project activity.
7.	In the case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a grid then the baseline for the electricity component shall be in accordance with procedure prescribed under this methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as “AMS-I.C.: Thermal energy production with or without electricity” shall be explored	Validation & Verification Team has assessed that proposed project activity is not having case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions. Hence, it concludes that applicability condition is not applicable to proposed grouped project activity.
8.	In case biomass is sourced from dedicated plantations, the applicability criteria in the tool “Project emissions from cultivation of biomass” shall apply	Validation & Verification Team has assessed that proposed project activity is not having case biomass sourcing from dedicated plantation. Hence, it concludes that applicability condition is not applicable to proposed grouped project activity.

S.N.	Applicability Condition of Tool to calculate the emission factor for an electricity system	Conclusion of Validation & Verification Team
1.	This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been	Validation & Verification Team has assessed and concluded that grouped project activity is supplying electricity to national grid hence, the latest version of this tool is applied.

	provided by the grid (e.g., demand-side energy efficiency projects).	
2.	Under this tool, the emission factor for the project electricity system can be calculated either for grid power plants only or, as an option, can include off grid power plants. In the latter case, the conditions specified in “Appendix 2: Procedures related to off grid power generation” should be met. Namely, the total capacity of off-grid power plants (in MW) should be at least 10 per cent of the total capacity of grid power plants in the electricity system; or the total electricity generation by off-grid power plants (in MWh) should be at least 10 per cent of the total electricity generation by grid power plants in the electricity system; and that factors which negatively affect the reliability and stability of the grid are primarily due to constraints in generation and not to other aspects such as transmission capacity.	Validation & Verification Team has assessed and concluded that grouped project activity is supplying electricity to national grid hence, the latest version of this tool is applied for emission factor is calculated in accordance with the same.
3.	In case of CDM projects the tool is not applicable if the project electricity system is located partially or totally in an Annex I country.	Validation & Verification Team has assessed and concluded that grouped project activity is located in Nepal which is not an Annex I country neither partially nor totally hence, criteria is not applicable.
4.	Under this tool, the value applied to the CO ₂ emission factor of biofuels is zero.	Validation & Verification Team has assessed and concluded that grouped project activity does not involve any biofuel hence the criteria is not applicable.
S.N.	Applicability Condition of	Conclusion of Validation & Verification Team

Tool for the demonstration and assessment of additionality

- | | |
|--|---|
| <p>1. The use of the methodological tool “Demonstration of additionality of small-scale project activities” is not mandatory for project participants when proposing new methodologies. Project participants and coordinating/managing entities may propose alternative methods to demonstrate additionality for consideration by the Executive Board.</p> | <p>Validation & Verification Team has assessed PP has chosen to apply the tool.</p> |
| <p>2. Project participants and coordinating/managing entities may also apply “TOOL19: Demonstration of additionality of microscale project activities” as applicable.</p> | <p>Validation & Verification Team has assessed and concluded that PP has not applied the tool as it is not valid for this grouped project activity.</p> |

S.N. Applicability Condition of Tool for Investment analysis
Conclusion of Validation & Verification Team

- | | |
|--|---|
| <p>1. This methodological tool is applicable to project activities that apply the methodological tool “Tool for the demonstration and assessment of additionality”, the methodological tool “Combined tool to identify the baseline scenario and demonstrate additionality”, the guidelines “Non-binding best practice examples to demonstrate additionality for SSC project activities”, or baseline and monitoring methodologies that use the investment analysis for the demonstration of additionality</p> | <p>Validation & Verification Team has assessed and concluded that PP applied the tool in accordance with the guidance under “Tool for the demonstration and assessment of additionality”.</p> |
|--|---|
-

and/or the identification of the baseline scenario.

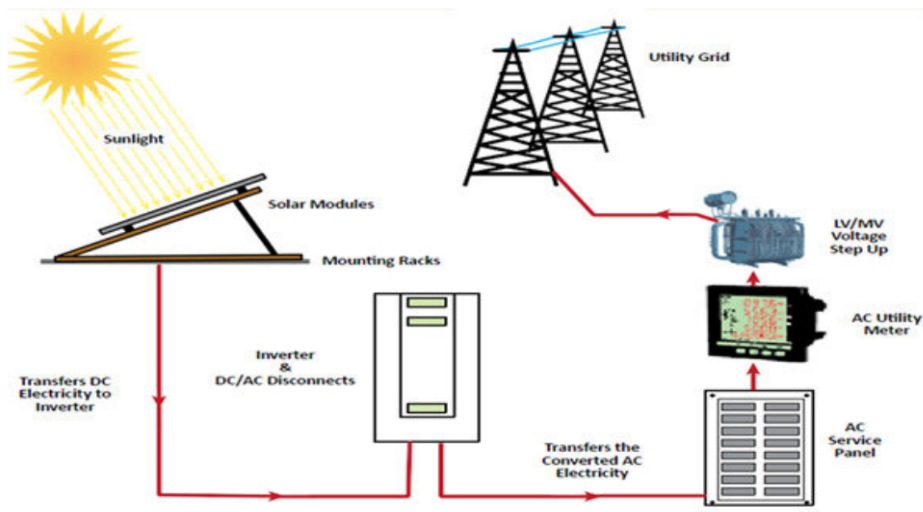
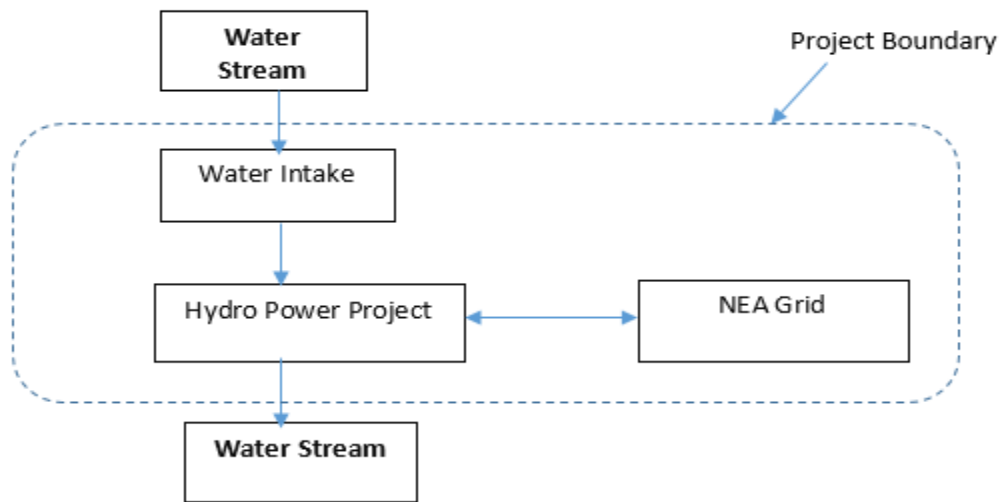
2. In case the applied approved Validation & Verification Team has baseline and monitoring assessed and concluded that PP applied methodology contains the tool in accordance with the applied requirements for the investment methodology. analysis that are different from those described in this methodological tool, the requirements contained in the methodology shall prevail.
-

3.4.3 Project Boundary

Validation & Verification Team has assessed and conforms that below is the accurate information upon geographical location of respective project activity instances which are found consistent with respect to reporting in PD-MR and submitted commissioning certificates same are verified during the physical site visit.

Table 3.4.3.1 Summary of location for project instances under scope of validation and verification

Project Identity	Installation Capacity (MW)	Physical Location
Kaberi-B1 Cascade	9.94	Amrapur, Pachthar Negi, Nepal
ISSPL	4	Chandranigahpur, Rautahat , Nepal
Dhalekbar solar	1	Dhalkebar, Dhanusa, Nepal
Simara Solar	1	Simara, Parsa, Nepal



Schematic diagram of a grid connected PV power plant

Figure 3.4.3.1 Project Boundary of grouped project for Hydro and Solar technology, respectively

Validation & Verification Team has assessed and conforms that PP has identified the GHG source, sink and reservoir in accordance with the applied methodology AMS-I.D, Version 18 in accordance with VCS standard version 4.4 for both baseline and project also, no additional GHG source, sink and reservoir are identified during on site assessment by Validation & Verification Team.

Table 3.4.3.2 GHG source, sink or reservoir identified for grouped project activity

Source		Gas	Included?	Justification/Explanation
Baseline	Fossil fuel fired power plants connected to integrated NEA grid	CO ₂	Yes	Main emission source
		CH ₄	NO	Excluded
		N ₂ O	NO	Excluded
Project	Greenfield Hydro Power and Solar Project activity	CO ₂	NO	Project emissions are considered zero
		CH ₄	NO	Project emissions are considered zero
		N ₂ O	NO	Project emissions are considered zero

3.4.4 Baseline Scenario

Validation & Verification Team has assessed and conforms that as per applied methodology AMS-I.D, Version 18 in accordance with the VCS standard version 4.4, baseline scenario for this grouped project activity is fossil fuel based electricity generation via grid-connected power plant in Nepal (connected to Indian Grid) which is accurately and with reasonable assumptions described in respective section of PD-MR for solar project activity as well as hydropower

activity in accordance with commissioning certificates, PPAs as well as official website of National Electricity Authorities of Nepal and India also, same is validated during onsite assessment.

3.4.5 Additionality

Validation and Verification Team has assessed that PP has demonstrated upon the two components of additionally requirement in accordance with the 'Guidelines on the demonstration of Additionality of small-scale Project Activity' (version 9.0):

- Legal Requirement Test

As the project is not mandate by enforced laws, statutes, regulations, court orders, environmental-mitigation agreements, permitting conditions of other legally-binding mandates hence, voluntary commitments/agreements for this particular sector for PP do not constitute the any legal requirement to be tested.

Additionality Assessment

The group project activity consist of 5 instances. Out of which one instance i.e. 9.70 MW Ingwa HEP is withdrawn by the PP and remaining 4 instances are considered for additionality demonstration. The remaining 4 instances consist of 3 grid connected solar PV projects and 1 hydroelectric project.

In line with the requirement of paragraph 11 (a) under section 5 of the TOOL21-Methodological tool: Demonstration of additionality of small-scale project activities Version 10.0, which is applicable at the time of investment decision, validation and verification team concludes that the following instances under the group project activity qualifies under the positive list.

Name of Instances	Capacity (MW)	Technology	Country	Location	District
Api Power Company Limited- ISSPL	4.0	Solar	Nepal	Chandranigahpur	Rautahat

Api Power Company Limited – Dhalekbar solar	1.0	Solar	Nepal	Dhalkebar	Dhanusa
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Api Power Company Limited - Simara Solar	1.0	Solar	Nepal	Simara	Parsa
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Hence, validation and verification team concludes that the same grid-connected renewable electricity generation technologies is automatically additional.

Further, to demonstrate the additionality of the 9.94 MW Kaberi-B1 Cascade project PP has considered methodological procedure in section 10(a) of Tool 21 version 10.0

PP has considered investment barrier to demonstrate that without financial support from carbon revenue from VCS program it will not be an economically or financially feasible option where the Tool for Investment Analysis, Version 09 is used following benchmarking.

Benchmark selection & Financial Indicator:

Validation & Verification Team has assessed that PP has chosen financial indication option 1 which is in accordance with the Methodological Tool for version 09Investment Analysis Version 09.

Determine appropriate analysis method:

Validation & Verification Team has assessed that PP has chosen Option- III for benchmark analysis as an appropriate analysis method to demonstrate the investment barrier.

Benchmark Calculation

The cost of equity is determined by selecting the values provided in the Appendix, i.e., Default values for cost of equity (expected return on equity) is presented below:

Appendix of the CDM TOOL 27: Investment Analysis Version 09 specifies default value of expected return on equity in real terms for Energy Industries (Group 1) in Nepal = 12.79% .

PP has correctly applied the tool as per CDM tool 27 para 10 wherein at the time of decision made of project activity, Version 9.0 of methodological tool "Investment Analysis" (EB 101, Annex 11) was the latest available tool to Project owner. Hence, Project owner has used Methodological Tool for Investment Analysis version 09 (EB 101, Annex 11). However The default value as mentioned in tool 27 version 12 is 12.62 % for the group 1 projects in Nepal and Value as mentioned in version 9.0 is 12.79% for group 1 project in Nepal, Considering the both values the project additionality will not be affected.

The benchmark has been computed in the following manner:

$$\text{Nominal Benchmark} = \{(1 + \text{Real Benchmark}) * (1 + \text{Inflation rate})\} - 1$$

Where,

Real Benchmark = Default Value, i.e., 12.79%

Inflation rate = Projected Inflation Forecast is 4.60%. Inflation forecast is taken from IMF data source as in Nepal central bank is not publishing the same. This is as per para 16 of TOOL 27: Investment Analysis Version 09, hence found accepted.

Benchmark estimation:

As per latest updated version 09 of Tool 27: Investment analysis tool, default value of expected return on equity in real terms for Energy Industries (Group 1) in Nepal is = 12.79% .

The date of decision making is 18-March-2019 of the project activity. Decision making date has been considered from the date of PP's Capex Approval Note represent approval from PP's board of director for approval to start expenditure for the project activity. Same has been acceptable to VVB team as in-line with the para 10 of Tool 27: Investment Tool version 09.0.

It is noticed that during decision making version 8.0 of Tool 27 was available and applicable to project activity. However, PP has referred the version 09 which was available at the time of RFR submission. Benchmark is calculated as 20.73% if

version 8.0 is applied, however benchmark is 17.80% is calculated with version 09. Lower Benchmark is conservative, hence applying version 09 is conservative approaches hence can be accepted.

For Kaberi B1 cascade hydro

Benchmark Calculations	Value	Sources Link	Document Date
Default Value for Nepal as per UNFCCC guidelines	12.79 %	https://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-27-v9.0.pdf	29-11-2018
Inflation forecast (WPI Mean) as per Nepal rashtra bank for 10yrs	4.20 %	https://tradingeconomics.com/nepal/inflation-cpi	
Benchmark (with 10yrs Forecast)	17.35 %	Calculated	
Benchmark	17.53 %	Calculated	

The IRR and Benchmark analysis are calculated in excel spreadsheet and same is submitted to the VVB during validation of project activity. Based on result of IRR excel spreadsheets, equity IRR is less than Benchmark. This substantiates that the investment is not financially attractive (Equity IRR for the project activity is less than the Benchmark). Thus, it can be easily concluded that project activity is additional & is not business as usual scenario. Input values used in all investment analysis shall be valid and applicable at the time of the investment decision taken by the project proponent which can be clearly verified; thus, it complies with guidance 10 of EB 116, Annex 2.

The tool as per CDM tool 27 version 9.0 was applied correctly and as per para 10 wherein at the time of decision made of project activity, Version 9.0 of methodological tool "Investment Analysis" (EB 101, Annex 11) was the latest available tool to Project owner. Hence, Project owner has used Methodological Tool for Investment Analysis version 09 (EB 101, Annex 11). However The default value as mentioned in tool 27 version 12 is 12.62 % for the group 1 projects in

Nepal and Value as mentioned in version 9.0 is 12.79% for group 1 project in Nepal, Considering the both values the project additionality will not be affected.

DPR has been submitted to verification team. The DPR was available during decision making and financial profitability of the project was decided based on this DPR.

Investment analysis input values for Kaberi B1 cascade Hydro Instance

Details of the project		VVB assessment
Total Capacity (MW)	9.94	Capacity has been confirmed through the commissioning certificate and name plate of turbines during onsite assessment.
Expected Date of Commissioning	26-Mar-22	Commissioning date for turbines involved in project was confirmed from the commissioning certificate and found to be appropriate.
Life of the plant (Yrs.)	25	Lifetime of the project is sourced from DPR and found to be accurate.
Generation of electricity		
PLF (%)	65.40%	PLF value was confirmed from per DPR which is found to be appropriate and also in line with paragraph 3 (b) of "Guidelines for the reporting and Validation of Plant Load Factors" (Annex 11 of EB 48).
Annual generation (kWh)	5,69,46,658	Calculated Value
Auxiliary consumption	1.00%	https://ntpc.co.in/media/employee-blog/role-water-batteries-energy-transition-and-green-energy-integration-india#:~:text=Currently%20allowable%20normative%20Aux%20power,by%20reducing%20the%20silt%20erosion.
Tariff rate at the decision making (NR/kWh)	6.0	PP has considered the same tariff rate mentioned in the DPR for investment analysis and found to be appropriate.
Operation and maintenance cost and Insurance		
O & M Expenses (NR Mn.)	15.83	O&M cost , escalation and insurance has been cross verified with the DPR

O & M free for (Yr.)	-	page no 108 and found to be appropriate.
Escalation in the operational expenses (%)	5.00%	
insurance %	1.18%	
Insurance (NR Mn.)	23.35	
Financial parameters		
TOTAL COST (NR Mn.)	1,979.23	Total cost has been cross verified with the DPR page no 123 and loan and equity investment was found to be appropriate as per the DPR.
Loan Amount (NR Mn.)	1,385.46	
Equity Investment (NR Mn.)	593.707	
Term loan		
Loan Amount (NR Mn.)	1,385.46	The loan amount and interest rate has been sourced from DPR and found to be correct.
Interest rate (%)	10.12%	
Loan Tenure (Qtr.)	48	
Moratorium Period (Qtr.)	-	Not Applicable
Repayment Period (Qtr.)	408	Calculated Value
Repayment instalments value (NR Mn.)	28.864	Calculated Value
1st instalment from (Qtr. end)	30-Jun-22	Considered from the next Quarter End
Book Depreciation (SLM Method)		
Land	40.00	As per DPR, page no 108
Gross Depreciable Value (NR Mn.)	1,939.23	It is a Calculated Value and includes the land value.
Salvage Value (%)	20.00%	PP has considered 25 years of the project lifetime and 20% of the salvage values is reasonable.
Salvage value (NR Mn.)	387.85	Calculated Value
Net Depreciable Value (NR Mn.)	1551.39	Calculated Value
Residual Value (NR Mn.)	427.85	Calculated Value
IT Depreciation		

IT Depreciation (%)	15.00%	IT act https://www.nrb.org.np/contents/uploads/2021/09/vol15_art5.pdf
Income Tax		
		The below references has been cross checked and the different values considered under income tax is found to be consistence.
Income tax rate (%)	25.00%	https://nbsm.com.np/uploads/large/1621329900647479.pdf
Corporate Tax / MAT (%)	25.00%	
VAT (%)	13.00%	https://tradingeconomics.com/nepal/sales-tax-rate
Surcharge (%)	20.00%	https://www.nrb.org.np/contents/uploads/2020/09/Annual-Report-2018.19.pdf
Education cess (%)	4.00%	https://cag.gov.in/webroot/uploads/download_audit_report/2020/Report%20No.%204%20of%202020_Eng-05f808ecd3a8165.55898472.pdf
Final Tax rates		
Income tax rate (%)	31.20%	Calculated Value
MAT (%)	31.20%	Calculated Value
VAT (%)	13.52%	Calculated Value

The post tax equity IRR for the project is 14.31% without carbon revenue. The IRR is lower than the benchmark identified above. To check the robustness of the additionality PP has conducted a sensitivity analysis including the major variables including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues.

Sensitivity Analysis

PP has demonstrated the sensitivity analysis considering the variables PLF, Project Cost, O&M cost and Tariff. Validation and Verification Team has assessed the demonstration and found out the sensitivity analysis has been performed correctly in line with the requirement of paragraph 27 & 28 of the Tool 27, version 13.0.

Results of sensitivity analysis are presented as below.

Results of sensitivity analysis for Kaberi- B1 cascade.

Sensitivity Analysis	Equity IRR			
Variation %	-10%	Normal	10%	Breaching Value
PLF	11.85%	14.31%	16.90%	12.40%
O&M	14.48%	14.31%	14.14%	-192.00%
Project Cost	16.99%	14.31%	12.23%	-11.74%
Tariff Rate	11.85%	14.31%	16.90%	12.38%

From the above result it is seen that the post tax equity IRR does not breach the benchmark and the project is still additional under sensitivity analysis. The limit of variation for which the IRR is breaching the benchmark is very unlikely to happen. Thus, this substantiates that the investment is not financially attractive. Hence, all the 4 instances of the group project is additional. **Barrier analysis**

Validation & Verification Team has assessed that barrier analysis is not proposed by PP.

Common practice analysis

Validation & Verification Team has assessed that common practice analysis is not applicable to this small-scale project activity.

Hence, Validation & Verification has found demonstration of PP in line with the requirements of additionality tool applied titled as 'Demonstration of additionality of small-scale project activities' version 13.1 upon additionality aspects.

3.4.6 Quantification of GHG Emission Reductions and Removals

Baseline Emissions are calculated by PP as below:

As per AMS I.D. version 18-

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

Where

BE_y: Baseline emissions in year y (t CO₂)

EG_{PJ,y}: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS project activity in project year (MWh)

EF_{grid,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)

Project Emissions are calculated by PP as below:

As per AMS I.D. version 18

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

Where,

PE_y: Project emissions in year y (t CO₂e/yr)

PE_{FF,y}: Project emissions from fossil fuel consumption in year y (t CO₂/yr)

PE_{GP,y}: Project emissions from the operation of dry, flash steam or binary geothermal power plants in year y (t CO₂e/yr)

PE_{HP,y}: Project emissions from water reservoirs of hydro power plants in year y (t CO₂e/yr)

Validation & verification team has confirmed that the group project activity does not include fossil fuel, geothermal and emissions from water reservoirs is not applicable as per the AMS I D Version 18.

Leakage Emissions calculated by PP:

Validation & Verification Team has assessed that as per the requirement of AMS I. D version 18 PP is not required to calculate leakage emission for this grouped project activity as no biomass residues is produced.

Validation & Verification Team has assessed and conforms that PP has followed for approach for quantification of GHG emission reductions and removal in line with applied methodology AMS I D Version 18

$$ER_y = BE_y - PE_y - LE_y$$

Where,

ER_y = Emission reductions in year y (t CO₂/y)

BE_y = Baseline Emissions in year y (t CO₂/y)

PE_y = Project emissions in year y (t CO₂/y)

LE_y = Leakage emissions in year y (t CO₂/y)

BE_y = 19,547 (t CO₂/y) and for the first crediting period total baseline emission reductions are estimated to be 136,829 tCO₂ reported by PP (refer to Estimate ER sheet)

PE_y = 0 as per AMS I.D. version 18

LE_y = 0 as per AMS I.D. version 18

Table 3.4.6.1 Assessment of parameters at validation as per applied methodology and tools

Parameter at validation	Description of Parameter	Unit	Value Applied	Conclusion of VVB
EF _{grid, OM,y} (Indian Grid)	Operating Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.9524	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07
EF _{grid, BM,y} (Indian Grid)	Build Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.8687	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07
EF _{grid, CM,y} (Indian Grid) (Hydro project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.9105	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07
EF _{grid, CM,y} (Indian Grid) (Solar project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.9314	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07.

EF _{grid, CM,y} (Nepal Grid) (Hydro project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.2898	Applied as per Harmonized IFI Default Grid Factors 2021 v3.2 in accordance with CDM TOOL07, PP has demonstrated that in the absence of publicly available emission factor for the Nepal grid, PP has chosen the IFI default grid emission factor 2021 conservatively.
EF _{grid, CM,y} (Nepal Grid) (solar project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.2965	Applied as per Harmonized IFI Default Grid Factors 2021 v3.2 in accordance with CDM TOOL07, PP has demonstrated that in the absence of publicly available emission factor for the Nepal grid, PP has chosen the IFI default grid emission factor 2021 conservatively.
Parameter to be monitored	Description of Parameter	Unit	Value Applied	Conclusion of VVB
EG _{PJ, y}	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y	MWh/y	67,216.88 (at validation)	Estimated at validation stage using PLF and Installation Capacity which is to be monitored on monthly basis at verification cycle in accordance with AMS I.D. Version 18

3.4.7 Methodology Deviations

Validation & Verification Team has assessed and concluded that there is not methodological deviation identified against the requirement of VCS standard version 4.4.

3.4.8 Monitoring Plan

Validation & Verification Team has assessed the monitoring plan developed and implemented by PP with respect to responsible personnel monitoring and measurement, quality assurance, quality control procedures as described below:

Organogram of team responsible for operation and measurement:

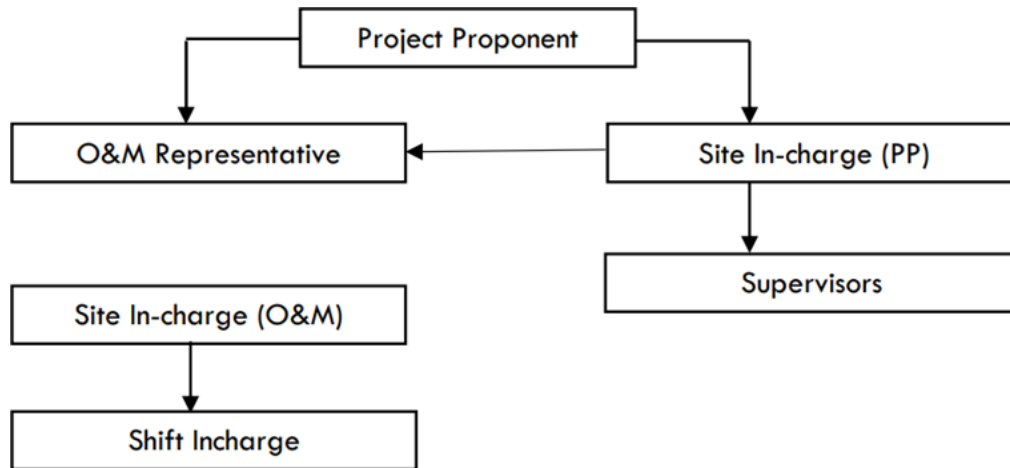


Figure 3.4.8.1 Organogram of personnel responsible of operation & maintenance

Table 3.4.8.1 Assessment of Monitoring Plan as per applied methodology

Function	Reporting Tasks	Recording	Conclusion of VVB
Data Measurement	Electricity Import/Export to grid	Meter reading notation on daily basis, invoice to be manged	Joint Meter reading as well as respective invoices are crosschecked and found valid
Data collection and archiving	Manual and electronic recording of import and export to grid	Logbook is maintained	Logbook is crosschecked with Joint meter reading report and found valid
QA/QC Procedures	Calibration of meters at	Calibration certificates obtained	Calibration Certificate, validity, result is checked against applied methodological

	decided intervals		requirement of AMS I.D. version 18
Personnel training	Operation and Maintenance Training on regular interval	Training schedule and certificates if available	Training schedule is checked and interview of respective personnel taken during onsite assessment.

Parameter to be monitored	Description of Parameter	Unit	Value Applied	Conclusion of VVB
EG _{PJ, y}	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y	MWh/y	67,216.90 (at validation),	Estimated at validation stage using PLF and Installation Capacity which is to be monitored on monthly basis at each verification cycle in accordance with AMS I.D. Version 18

3.5 Non-Permanence Risk Analysis

Validation & Verification Team has assessed and concluded that PP is not required to perform Non-performance risk analysis against the requirement of VCS standard version 4.4.

4 VERIFICATION FINDINGS

4.1 Accuracy of GHG Emission Reduction and Removal Calculations

Baseline Emissions are calculated by PP as below:

As per AMS I.D. version 18-

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

Where

BE_y: Baseline emissions in year y (t CO₂)

EG_{PJ,y}: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS project activity in project year (MWh)

EF_{grid,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)

Project Emissions are calculated by PP as below:

As per AMS I.D. version 18

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

Where,

PE_y: Project emissions in year y (t CO₂e/yr)

PE_{FF,y}: Project emissions from fossil fuel consumption in year y (t CO₂/yr)

PE_{GP,y}: Project emissions from the operation of dry, flash steam or binary geothermal power plants in year y (t CO₂e/yr)

PE_{HP,y}: Project emissions from water reservoirs of hydro power plants in year y (t CO₂e/yr)

Validation & verification team has confirmed that the group project activity does not include fossil fuel, geothermal and emissions from water reservoirs is not applicable as per the AMS I D Version 18.

Leakage Emissions calculated by PP:

Validation & Verification Team has assessed that as per the requirement of AMS I. D version 18 PP is not required to calculate leakage emission for this grouped project activity as no biomass residues is produced.

Validation & Verification Team has assessed and conforms that PP has followed for approach for quantification of GHG emission reductions and removal in line with applied methodology AMS I D Version 18.

$$ER_y = BE_y - PE_y - LE_y$$

Where,

ER_y: Emission reductions in year y (t CO₂/y)

BE_y: Baseline Emissions in year y (t CO₂/y)

PE_y: Project emissions in year y (t CO₂/y)

LE_y: Leakage emissions in year y (t CO₂/y)

BE_y: 18,234 tCO₂ for first verification period (: 22-August-2021 to 31-May-2023) reported by PP (refer to Actual ER sheet) whereas estimated emission reduction is 24,279tCO₂e for the same duration

PE_y = 0 as per AMS I.D. version 18

LE_y = 0 as per AMS I.D. version 18

Table 4.1.1 Assessment of data and parameter at verification as per applied methodology and tool

Parameter at validation	Description of Parameter	Unit	Value Applied	Conclusion of VVB
EF _{grid, OM,y} (Indian Grid)	Operating Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.9524	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07
EF _{grid, BM,y} (Indian Grid)	Build Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.8687	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07
EF _{grid, CM,y} (Indian Grid) (Hydro project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.9105	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07
EF _{grid, CM,y} (Indian Grid) (Solar project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.9314	Determined as per Baseline CO ₂ Emission Database published by CEA (Version 18) in accordance with CDM TOOL07.

EF _{grid, CM,y} (Nepal Grid) (Hydro project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.2898	Applied as per Harmonized IFI Default Grid Factors 2021 v3.2 in accordance with CDM TOOL07, PP has demonstrated that in the absence of publicly available emission factor for the Nepal grid, PP has chosen the IFI default grid emission factor 2021 conservatively.
EF _{grid, CM,y} (Nepal Grid) (solar project activity)	Combined Margin CO ₂ emission factor in year y	tCO ₂ e/ MWh	0.2965	Applied as per Harmonized IFI Default Grid Factors 2021 v3.2 in accordance with CDM TOOL07, PP has demonstrated that in the absence of publicly available emission factor for the Nepal grid, PP has chosen the IFI default grid emission factor 2021 conservatively.
Parameter to be monitored	Description of Parameter	Unit	Value Applied	Conclusion of VVB
EG _{PJ, y}	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y	MWh/y	67,216.90 (at validation), 62,606 (at first verification)	Estimated at validation stage using PLF and Installation Capacity which is to be monitored on monthly basis at verification cycle in accordance with AMS I.D. Version 18

4.2 Quality of Evidence to Determine GHG Emission Reductions and Removals

Validation & Verification Team as verified the ER sheet and confirms that estimated and actual emission reductions or/and removals are calculated using the unitary method. Validation & Verification Team has assessed the commissioning certificates,

equipment/instrument specifications, Power Purchase Agreements, Contractual evidence, logbook for daily electricity measurement, invoices for electricity import/export under scope of first verification during desk review as well as on-site visit if possible. Also, Validation & Verification Team has interviewed respective stakeholders to conform accuracy of data/parameter(s) value(s), reasonableness and adequacy of the fact/assumption(s) and validity of objective evidence (records/public references) against the requirement of VCS standard version 4.4.

5 VALIDATION AND VERIFICATION OPINION

TÜV SÜD South Asia Pvt. Ltd. has successfully completed performed Joint validation and verification of the “RIDI Grouped Hydro Solar Power Project in Nepal” by RIDI POWER COMPANY LIMITED As SPV, Arun Valley Hydropower Development Company Limited, API Power Company Limited and EKI Energy Services Limited.

The management of the project participant/owner (s) is responsible for the preparation of the GHG emissions data and the reported/estimated GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the Joint VCS PD-MR and the approved CDM methodology AMS I.D. version 18.

TÜV SÜD’s Validation & Verification approach is based on the requirements of VCS rules in accordance with the latest VCS standard 4.4 which is risk-based, drawing upon an understanding of the risks identified and addressed for estimated/actual GHG emissions data quantified or/and to be quantified. TÜV SÜD South Asia Pvt. Ltd. conforms that:

- Project Implementation of following grouped project activity is complying with the VCS rules and requirements.
- Demonstration of baseline scenario of following grouped project activity is in accordance with the applied VCS rules and methodological requirements
- Monitoring and measurement plan is developed and implemented in accordance with the applied VCS rules and methodological requirements
- Control of objective evidence is in accordance applied VCS rules and

methodological requirements

- Quantification of GHG emission reductions or/and removals are calculated and reported without material misstatement by PP and assessed by VVB at reasonable level of assurance (materiality threshold <5%).

The grouped project activity is expected to reduce 136,829 tCO₂ during the length of first crediting period from 22-August-2021 to 21-August-2028 (first and last date included).

Verification period: 22-August-2021 to 31-May-2023 (first and last date included)

Table 5.1.1 Estimated GHG emission reductions or removals (tCO₂e) for first crediting period

Year	Estimated GHG emission reductions or removals (tCO ₂ e)
22-August-2021 To 21-August-2022	19,547
22-August-2022 To 21-August-2023	19,547
22-August-2023 To 21-August-2024	19,547
22-August-2024 To 21-August-2025	19,547
22-August-2025 To 21-August-2026	19,547
22-August-2026 To 21-August-2027	19,547
22-August-2027 To 21-August-2028	19,547
Total estimated ERs	19,547
Total number of crediting years	7
Average annual ERs	136,829

Table 5.1.2 Net GHG emission reductions or removals (tCO₂e) for first verification period for hydropower plant instances

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or
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				removals (tCO ₂ e)
22-August-2021 to 31-December-2021	0	0	0	0
01-January-2022- to 31-December-2022	10,910	0	0	10,910
01-January-2023 to 31-May-2023	3,285	0	0	3,285
Total	14,194	0	0	14,194

Table 5.1.3 Net GHG emission reductions or removals (tCO₂e) for first verification period for solar power plant instances

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
22-August-2021 to 31-December-2021	688	0	0	688
01-January-2022- to 31-December-2022	2,500	0	0	2,500
01-January-2023 to 31-May-2023	852	0	0	852

Total	4,040	0	0	4,040
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Total Net GHG emission reduction for this group project activity for current monitoring period:

ER_y = 18,234 (For both solar and hydro power plants instances)

Table 5.1.4 Comparison between Estimated and Achieved emissions reductions/removals for first verification period

Year	Ex-ante emissions reductions /removals	Achieved emissions reductions /removals	Percent difference	Justification for the difference
22-August-2021 – 31-May-2023	19,534	14,194	-27.34	For Hydro power plant instances Water/Sunlight availability is subject to seasonal variation (dependency upon rainfall intensity, sunlight), Weather conditions (cyclones/typhons) other human/anthropogenic activities (blockage of water due to trash, air pollution rise) over which PP holds no control
22-August-2021 – 31-May-2023	4,745	4,040	-14.86	For solar power plant instances Water/Sunlight availability is subject to seasonal variation (dependency upon rainfall intensity, sunlight), Weather conditions (cyclones/typhons) other human/anthropogenic activities (blockage of water due to trash, air pollution rise) over which PP holds no control

APPENDIX: 1

[1→LIST OF FINDINGS>

Table 6. Remaining FAR from validation and/or previous verifications

Not Applicable.

Table 7. CL from this validation and verification

CL ID	00	Section no.	1.1, 1.7, 1.12, 2.2	Date: 07-July-2023
Description of CL				
PP is requested to provide below listed supporting documents:				
- Commissioning certificate for Upper Ingwa and Translated version for Chandrapur Solar, Dhalkeber Solar Simara Solar Section 1.1 - Power Purchase Agreements (translated version) Section 1.1 - Proof of Ownership (Legal right) Section 1.7 - Technical specification proof for Upper Ingwa 9.7 MW hydro power plant Section 1.12 - Training Records (Access denied to folder) Section 1.17.2 - Record of Local Stakeholder Consultation (translated version) Section 2.2 - Record of ongoing Local Stakeholder communication (translated version) Section 2.2				
1)				
Project participant response				Date: 28-July-2023
- Commissioning certificate for Upper Ingwa and Translated version for Chandrapur Solar, Dhalkeber Solar Simara Solar has now been provided. - Power Purchase Agreements (translated version) is now provided - Proof of Ownership (Legal right) is now provided - Technical specification proof for Upper Ingwa 9.7 MW hydro power plant in now provided. - Training Records is provided now. - Record of Local Stakeholder Consultation (translated version) is now provided. - Record of ongoing Local Stakeholder communication (translated version) is now provided.				
Documentation provided by project participant				
- Commissioning certificate for Upper Ingwa and Translated version for Chandrapur Solar, Dhalkeber Solar Simara Solar - Power Purchase Agreements (translated version) - Proof of Ownership (Legal right) - Technical specification proof for Upper Ingwa 9.7 MW hydro power plant - Training Records - Record of Local Stakeholder Consultation (translated version) - Record of ongoing Local Stakeholder communication (translated version)				
WB assessment				Date: 09-August-2023

PP has provide all the listed documents.

Table 3. CL from this validation and verification

CL ID	01	Section no.	1.1	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.1 of PD-MR, PP has stated that “The proposed grouped project activity supports development of renewable energy generation plants based on Solar PV technology in Nepal and delivering electricity to the NEA grid” however, PP has not provided the translated version of power purchase agreement to cross check the context of proposal hence, PP need to provide the same.				
Project participant response				Date: 28-July-2023
Translated version of Power purchase agreements now has been provided to assessment team				
Documentation provided by project participant				
Copies of translated version of power purchase agreements				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the translated version of PP’s provided by PP for each project activity instances and same are found appropriate hence, Validation & Verification Team accepts the response.				

Table 4. CL from this validation and verification

CL ID	02	Section no.	1.1	Date: 07-July-2023
Description of CL				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 1.1 of PD-MR, PP has stated that “The annual generation in grouped project activity in over crediting period is 132951.221 MWH/year and The estimated annual emission reductions over a 7 year period from initial five project activity instances and additional five project activity instances are 38,620 tCO2e/year”, “The estimated annual emission reduction of this project activity is 38,620 tCO2 per year and 270,340 tCO2e over 07 years crediting period” however, the estimated annual emission reductions value is inconsistent with respect to official VCS project activity page hence, PP need to provide the clarity upon the same.	
Project participant response	Date: 28-July-2023
The estimated annual emission reductions over a 7 year period from initial five project activity instances and additional five project activity instances are 38,620 tCO2e/year”, “The estimated annual emission reduction of this project activity is 38,620 tCO2 per year is the updated one. The value showing on the VCS webpage was the not updated and time of listing of this project which is revised now and ER sheet is now submitted to assessment team.	
Documentation provided by project participant	
Actual ER sheet	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the justification provided by PP with respect to estimated annual emission reduction value difference where PD-MR is stating the values as per ER sheet hence, Validation & Verification Team accepts the response.	

Table 5. CL from this validation and verification

CL ID	03	Section no.	1.1	Date: 07-July-2023
Description of CL				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 1.1, PP has stated that “The project activity start is 22-August-2021 as the earliest date of commissioning date of one project site from project activity”, “the Upper Ingwa Hydropower Project is located on the Ingwa Khola, a tributary of the Kabeli River, in Taplejung and Panchthar district of Province No. 1, The project area lies just downstream of the confluence of the Suwa Khola and Ingwa the project are commissioning on 15-May-2022” however, PP has not provided the commissioning certificate for Upper Ingwa and translated format of Chandrapur Solar, Dhalkeber Solar and Simara Solar hence, PP needs to provide the same.	
Project participant response	Date: 28-July-2023
The upper ingwa site is not yet commissioned, PP has planned it to start in this financial year hence commissioning certificate not yet provided. Translated copies for other site's commissioning certificates now has been provided to assessment team.	
Documentation provided by project participant	
Translated copies for Chandrapur, Dhalekber & Simara site's commissioning certificates.	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed justification of PP with respect to non-commissioned project instance, PP needs to eliminate the project instance as same cannot be validated at this stage against the requirement of eligibility of initial project instance in VCS standard version 4.4.	
Project participant response	Date: 14-August-2023
The PP has stated that. “ approved required commercial operation date (RCOD) of the Upper Ingwa Hydro Power Project of capacity 9.70 MW was fixed at (15th May 2023) as per the Power Purchase Agreement with Nepal Electricity Authority (NEA). Accordingly, the plant's final erection work was going on at the project location. There was heavy rainfall in the project catchment area, causing a big flood in the river on June 18th and 19 th,2023. The flood washed out some of the structures on the project built by the company. The repair and reconstruction work of the project will take six more months. Hence, the revised RCOD date of this project shall be November 15,2023.	
For this, Pp has applied for the Commercial Operation Date extension to NEA, and the extension process is going on for the same For this project.	
VVB assessment	Date: 16-August-2023

Validation & Verification has assessed the justification and objective evidence provided by PP with respect to Commercial Operation Date extension and same is found appropriate hence Validation and Verification Team accepts the response.

Table 6. CL from this validation and verification

CL ID	04	Section no.	1.4	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.4 of PD-MR, PP has stated that “All project activity instances meet applicability conditions of methodology “AMS I.D Version 18.0 (project activity instances having capacity less than 15 MW), hence this eligibility criteria is fulfilled). Please refer section 3.2 of this document for methodology applicability criteria” however, PP has not demonstrated the requirement of scale or/and capacity limit against the requirement of VCS standard version 4.4 hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
Section 3.2 of the joint PDMR is now revised for the project scale as per VCS standard 4.4.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP needs to address the finding as no demonstration in section 1.4 or section 3.2 is provided.				
Project participant response				Date: 14-August-2023
Applicability demonstration is now done in section 3.2 as well.				
VVB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the justification provided by PP with respect to applicability criteria for capacity limit and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 7. CL from this validation and verification

CL ID	05	Section no.	1.4	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.4 of PD-MR, PP has stated that “The additionality for the all project activity instances included in the grouped project has been demonstrated in section 3.4 of PD.As per CDM Tool for demonstration of additionality for small scale project activities, solar PV projects with capacity up to 15 MW fall in positive list of technologies termed as automatically additional. Here all the project activity instances are small scale projects and are automatically additional” however, PP has not demonstrated the how the hydropower instance are qualified as additional against the requirement of applied tool hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
Demonstration of hydro power instances are now incorporated in section 3.5 of Joint PDMR				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP needs to demonstrate how the hydro project activity instance are auto additional?				
Project participant response				Date: 14-August-2023
Additionality demonstration is now added in section 3.5 of joint pdmr				
VVB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to additionality assessment for hydro project instances and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 8. CL from this validation and verification

CL ID	06	Section no.	1.5	Date: 07-July-2023
Description of CL				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 1.5 of PD-MR, PP has stated in “section 1.4” that “New project activity instances ownership needs to be evidenced from start date of respective project activity instance.” however, PP has not demonstrated who holds the ownership as not details on its role and responsibility incorporated in section 1.1 hence, PP needs to provide the same.	
Project participant response	Date: 28-July-2023
Ridi power company limited has the ownership of this project activity, hence PP’s roles and responsibilities are now incorporated in section 1.1 of joint PDMR.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the response provided by PP with respect to ownership and same is found appropriate hence, Validation & Verification Team accepts the response	

Table 9. CL from this validation and verification

CL ID	07	Section no.	1.7	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.7 of PD-MR, PP has stated that “RIDI POWER COMPANY LIMITED has the legal right to control and operate the activities registered under this grouped project. RIDI POWER or its group companies either own the installed PV panels, rent the rooftop space on which the panels are installed or have an agreement with the panel owners regarding ownership of the group project” however, PP has not provided the objective evidence hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
PP has now provided the objective evidence for ownership of the instances and project activity.				
Documentation provided by project participant				
Commissioning certificates for each instances				
VVB assessment				Date: 09-August-2023

Validation & Verification Team has assessed the commissioning certificates and proof of ownership provided by PP and same are found appropriate hence, Validation & Verification Team accepts the response.

Table 10. CL from this validation and verification

CL ID	08	Section no.	1.8	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01 In section 1.8 of PD-MR, PP has provided the table for “Site wise Commissioning dates” however, PP has stated that Upper ingwa -Hydro Power plant as “Not yet commissioned” so PP needs to justify how is the instance qualified to be added against the requirement of VCS standard for validation and verification scope of work hence, PP needs to provide the same. .				
Project participant response				Date: 28-July-2023
As per the VCS standard 4.4 section 3.8 says “The project start date of a non-AFOLU project is the date on which the project began generating GHG emission reductions or removals. The project start date of an AFOLU project is the date on which activities that led to the generation of GHG emission reductions or removals are implemented (e.g., preparing land for seeding, planting, changing agricultural or forestry practices, rewetting, restoring hydrological functions, or implementing management or protection plans). Projects must complete validation within specific timeframes from the project start date...Hence Upper ingwa is non AFOLU project and Emission reduction will be calculated for this instance from its start date only and project will be completed & installed within specific timeframe from the project start date.				
Documentation provided by project participant				
https://verra.org/wp-content/uploads/2022/12/VCS-Standard-v4.4-FINAL.pdf				
VVB assessment				Date: 09-August-2023
PP needs to justify how project instance fall under category of initial instance as it is not commissioned as no information can be cross checked as part of validation at this stage for Upper ingwa -Hydro Power plant.				
Project participant response				Date: 14-August-2023
Justification is now provided in section 1.8 of PDMR				
VVB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the justification provided by PP with respect to including the information upon non-commissioned project activity instance FAR 01 is raised upon it so refer to the same.				

Table 11. CL from this validation and verification

CL ID	09	Section no.	1.11	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.11 of PD-MR, PP has provided the details of solar module details however same were not found in the technical specification objective evidence for Simara 1 MW Solar PV Power Plant hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
technical specification objective evidence for Simara 1 MW Solar PV Power Plant now has been provided.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023 & technical specification				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has reviewed the objective evidence upon technical specification provided by PP with respect to Simara 1 MW Solar PV Power Plant same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 12. CL from this validation and verification

CL ID	10	Section no.	1.11	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.11 of PD-MR, PP has provided the details of solar module details however, same were not found in the technical specification objective evidence for Chandranigahapur 4 MW Solar PV Plant hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
the technical specification objective evidence for Chandranigahapur 4 MW Solar PV Plant is now provided				
Documentation provided by project participant				

VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to technical specifications of Chandranigahapur 4 MW Solar PV Plant and same are found appropriate hence, Validation & Verification Team accepts the response.	

Table 13. CL from this validation and verification

CL ID	11	Section no.	1.12	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.12 of PD-MR, PP has not provided the technical specifications for Upper Ingwa 9.7 MW hydro power plant hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
In section 1.11, technical specifications for Upper Ingwa 9.7 MW hydro power plant is now provided				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to technical specifications of Upper Ingwa 9.7 MW hydro power plant and same are found appropriate hence, Validation & Verification Team accepts the response.				

Table 14. CL from this validation and verification

CL ID	12	Section no.	1.12	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.12 of PD-MR, PP has not provided objective evidence for the technical specifications of Upper Ingwa 9.7 MW hydro power plant hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
In section 1.11, technical specifications for Upper Ingwa 9.7 MW hydro power plant is now provided				

Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed objective evidence provided by PP with respect to technical specifications of Upper Ingwa 9.7 MW hydro power plant and same are found appropriate hence, Validation & Verification Team accepts the response.	

Table 15. CL from this validation and verification

CL ID	13	Section no.	2.2	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 2.2 of PD-MR, PP has provided the objective evidence with respect to local stakeholder consultation however, same are not provided in translated version hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
Translated version of local stakeholder consultation is now submitted to assessment team				
Documentation provided by project participant				
Translated version of local stakeholder consultation documents				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the key information provided by PP with respect to invitation, meeting date and location in translated version and same are found appropriate hence, Validation & Verification Team accepts the response.				

Table 16. CL from this validation and verification

CL ID	14	Section no.	2.2	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 2.2 of PD-MR, PP has not provided the records of ongoing local stakeholder consultation against the requirement of VCS standard version 4.4 hence, PP needs to provide the same.				

Project participant response	Date: 28-July-2023
Details of mechanism for ongoing communication with local stakeholder is now provided in section 2.2 of joint PDMR,	
Documentation provided by project participant	
Grievances register	
WB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the feedback submitted in grievance record provided by PP with respect to ongoing local stakeholder communication and same is found valid hence, Validation & Verification Team accepts the response.	

Table 17. CL from this validation and verification

CL ID	15	Section no.	3.5	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has stated “As per Tool 19 ‘Guidelines on the Demonstration of additionality of microscale project activities’ (version 10.0), a positive list of grid-connected renewable electricity generation technologies are listed that are automatically defined as additional, without further documentation of barriers”, “Thus the project follows section 5.3.2 of the applied methodology which requires the project proponent to determine the additionality based on “Tool for the demonstration and assessment of additionality”, Version 07.0.0”.				
However, section 1.4 it states “For small scale project activity instances - As per Guidelines on the Methodological Tool for the demonstration of additionality of small- scale project activities - Version 18 (EB 105, Annex a positive list of grid-connected renewable electricity generation technologies are listed that are automatically defined as additional, without further documentation of barriers”				
Now in section 3.5 PP claims to use the Tool 19 which is applicable to for “micro scale” hence, PP needs to justify why is the selection of tool for additionality assessment used				
Also in stepwise procedure it referred to ‘Tool for the demonstration and assessment of additionality’, Version 07.0.0’ which not in line with applied methodology as it clearly states that “Project participants shall apply the “General guidelines for SSC CDM methodologies, information on additionality (attachment A to Appendix B)”				
Hence, PP needs to provide justify why is information inconsistency with respect to selection and application of additionality assessment tool against the requirement of VCS standard version 4.4?				

Project participant response	Date: 28-July-2023
The information is now corrected with respect to selection and application of additionality assessment tool against the requirement of VCS standard version 4.4	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
WVB assessment	Date: 09-August-2023
PP needs to demonstrate how the hydro project activity instance are auto additional?	
Project participant response	Date: 14-August-2023
Additionality demonstration is now added in section 3.5 of joint pdmr	
WVB assessment	Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to additionality assessment and demonstration for hydro project activity instances and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 18. CL from this validation and verification

CL ID	16	Section no.	3.5	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has stated "As the baseline scenario is prescribed by applied methodology, hence no further analysis is carried out to identify alternatives" in response to step 1 however, PP needs to demonstrate why stepwise analytical approach is not followed for project activity instance which are not identified as "Greenfield"?				
Project participant response				Date: 28-July-2023
As all the instances are greenfield project activity, Hence, no further analysis was carried out to identify alternatives.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				

VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed justification provided by PP with respect to demonstration for step 1 and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 19. CL from this validation and verification

CL ID	17	Section no.	3.5	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has provided input for investment analysis parameter PLF (%) stating objective evidence as DPR however, no such value is found in DPR hence, PP need to justify how has it determined PLF (%)?				
Project participant response				Date: 28-July-2023
Evidence for PLF % is now updated in section 3.4 of joint PDMR				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023, IEE reports for Kaberi B1 Cascade and upper ingwa sites.				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to PLF values for Kaberi B1 Cascade hydro project and upper ingwa sites and same are found consistent and				

Table 20. CL from this validation and verification

CL ID	18	Section no.	3.5	Date: 07-July-2023
Description of CL				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has provided input for investment analysis parameter Auxiliary consumption stating objective evidence as DPR and Rajasthan tariff order however, PP has not justified how tariff 7 order information is relevant to a project in Kabeli, Nepal?				
Project participant response				Date: 28-July-2023
Section 3.5 is now updated with evidence source for auxiliary consumption, project is in Nepal				

Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
PP has not corrected the information as per justification.	
Project participant response	Date: 14-August-2023
Information is now corrected as per justification.	
VVB assessment	Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to location of project activity and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 21. CAR from this verification

CAR ID	01	Section no.	NA	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
PP has not provided the PD-MR using the latest version of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the same.				
Project participant response				Date: 28-July-2023
The PD-MR is now updated as per the latest version of Joint Project Description and Monitoring Report, v4.2 template.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to use of latest Joint PD-MR template and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 22. CAR from this verification

CAR ID	02	Section no.	NA	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01 Content of the PD-MR and headings/subheadings are not consistent against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
Content of the PD-MR and headings/subheadings are now updated according to the template guideline.				
Documentation provided by project participant				
Revised Joint PD-MR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to headings/subheadings in content of latest Joint PD-MR and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 23. CAR from this verification

CAR ID	03	Section no.	1.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01 In section 1.1 of PD-MR, PP has stated that “Each instance of project activity under this grouped project consists of one or more renewable power generation plant using solar PV technology” however, information is not consistent within the section hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
For Each instance of project activity under this grouped project consists of one or more renewable power generation plant using solar PV technology and Hydro-electric power, Hence now Corrected.				

Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to technology of project activity instances and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 24. CAR from this verification

CAR ID	05	Section no.	1.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.1 of PD-MR, PP has stated that “Instant 3 - Integrated Sustainability Services Pvt. Ltd. (hereafter referred as “ISSPL”) has been appointed by API Power Company Limited (hereafter referred as “APCL”) for conducting a technical feasibility study and preparing a detailed project report for setting up a 1 MW solar PV power plant in Sarlahi District, Nepal” however, project location is inconsistent within the section and also the IEE Report provided hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
Project location is now consistent within the section and also as per the IEE Report provided.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to location of Instance 3 and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 25. CAR from this verification

CAR ID	06	Section no.	1.1	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 1.1 of PD-MR, PP has stated that “the Upper Ingwa Hydropower Project is located on the Ingwa Khola, a tributary of the Kabeli River, in Taplejung and Panchthar district of Province No. 1, The project area lies just downstream of the confluence of the Suwa Khola and Ingwa the project are commissioning on 15-May-2022” however, project location is inconsistent within the section hence, PP needs to provide the accurate information in respective sections.	
Project participant response	Date: 28-July-2023
Project location is now consistent within the section	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to location of Upper Ingwa Hydropower Project and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 26. CAR from this verification

CAR ID	07	Section no.	1.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.1 of PD-MR, PP has provided the details of Instance 1 however details in the table is not consistent with the IEE report hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The detail is now corrected according to the IEE report.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to title of instances and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 27. CAR from this verification

CAR ID	08	Section no.	1.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01 In section 1.1 of PD-MR, PP has stated that “There was no activity at the site of the project participant prior to the implementation of this Project activity. The project participant was not involved in generation of solar PV based powerAnd supplying it to the grid under the pre-project scenario” however, information in the context of project scenario is inconsistent within the section hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The information in the context of project scenario is now consistent within the section				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to technologies of project activity instances and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 28. CAR from this verification

CAR ID	09	Section no.	1.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01 In section 1.1 of PD-MR, PP has has incorporated the information with respect to feasibility studies for Instance 1-5 which is irrelevant to the section against the requirement of Joint Project Description and Monitoring Report, v4.2 hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The information with respect to feasibility studies for Instance 1-5 are now provided in respective section in last para of section 1.1.				

Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
PP has not addressed the finding.	
Project participant response	Date: 14-August-2023
The information with respect to feasibility studies for Instance 1-5 are now provided.	
VVB assessment	Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to conclusion of feasibility assessment summary and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 29. CAR from this verification

CAR ID	10	Section no.	1.3	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.3 of PD-MR, PP has not addressed the criteria of scope of VCS program against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
PP has now addressed the criteria of scope of VCS program against the requirement of Joint Project Description and Monitoring Report, v4.2 template				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to addressing all the criteria for project eligibility under scope of VCS program and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 30. CAR from this verification

CAR ID	11	Section no.	1.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.4 of PD-MR, PP has stated that “Since the small-scale project activity instances involve solar photovoltaic electricity generation projects, it can be concluded from the above list that this project activity is automatically additional and does not require demonstration of barriers” however, statement the conclusion is not consistent with requirement of applied tool as project activity also includes hydropower plants as instances hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The statement is now in line as per the requirement in the respective section.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP has not addressed the finding.				
Project participant response				Date: 14-August-2023
The statement is now Corrected as per the requirement in the respective section.				
VVB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to barrier analysis for hydropower project activity instance and same is found appropriate hence, Validation & Verification Team accepts the response				

Table 31. CAR from this verification

CAR ID	12	Section no.	1.4	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 1.4 of PD-MR, PP has stated that “The project activity using solar project will supply electricity to grid or to users through grid network (micro grid) or in house captive consumption.” however, PP has not demonstrated the same against the scope of applied methodology for project type hence, PP needs to provide the accurate information in respective sections.	
Project participant response	Date: 28-July-2023
As per the Scope of the applied methodology the statement is now inline in the respective section.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to technologies of project activity instances and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 32. CAR from this verification

CAR ID	13	Section no.	1.11	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.11 of PD-MR, PP has provided the irrelevant information with respect to technical specification for Simara 1 MW Solar PV Power Plant, Chandranigahapur 4 MW Solar PV Plant against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The technical specification for Simara 1 MW Solar PV Power Plant, Chandranigahapur 4 MW Solar PV Plant has now been updated.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to elimination of irrelevant information upon technical specifications and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 33. CAR from this verification

CAR ID	14	Section no.	1.11	Date:	07-July-2023
Description of CAR					
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01					
In section 1.11 of PD-MR, PP has not provided the sufficient details for Dhalkeber power plant against the requirement of Joint Project Description and Monitoring Report, v4.2 template also the objective evidence does not contains the information on SPVs hence, PP needs to provide the accurate information in respective sections.					
Project participant response					Date: 28-July-2023
The objective evidence now contains the information on SPVs of Dhalkeber.					
Documentation provided by project participant					
Revised Joint PDMR version 2 dated 28.07.2023					
VVB assessment					Date: 09-August-2023
Validation & Verification Team has assessed objective evidence provided by PP with respect to technologies of SPVs for Dhalkeber power plant and same is found appropriate hence, Validation & Verification Team accepts the response.					

Table 34. CAR from this verification

CAR ID	15	Section no.	1.12	Date:	07-July-2023
Description of CAR					
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01					
In section 1.12 of PD-MR, PP has provided stated latitude and longitude for 4 MW solar power plant in Chandrapur, 1 MW solar power plant in Dhalkeber , 1 MW solar power plant in Simara, 9.7 MW hydro power plant in Upper Ingwa however, information is inconsistent with respect to Detailed Project Report hence, PP needs to provide the accurate information in respective sections.					
Project participant response					Date: 28-July-2023
The latitude and longitude for 4 MW solar power plant in Chandrapur, 1 MW solar power plant in Dhalkeber , 1 MW solar power plant in Simara, 9.7 MW hydro power plant in Upper Ingwa is the actual location. However the coordinates mention in the DPR was prepared before the proposed project activity.					

Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed justification provided by PP with respect to geo-coordinate information for project activity instances and same is found valid hence, Validation & Verification Team accepts the response.	

Table 35. CAR from this verification

CAR ID	16	Section no.	1.17.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.17.1 of PD-MR, PP has stated that “Proposed project activity is Greenfield power plant based on solar PV technology”, “The project activity is installation of solar PV based power generation system. This system will generate power without any kind of emissions into atmosphere.” in order to demonstrate contribution toward “social wellbeing”, “Economic wellbeing” however, the information is not consistent/insufficient as project activity consist of solar and hydro technologies with the section 1.1 hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The information is now consistent as project activity consist of solar and hydro technologies.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to technologies of project activity instance and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 36. CAR from this verification

CAR ID	17	Section no.	1.17.2	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 1.17.2 of PD-MR, PP has stated that “The project activity has beneficial effect on the local environment and employment in the nearby region. Clean Electricity generation through Hydro Project result in avoidance of consumption of fossil fuels which results in contribution to SDG 7”, however, such demonstration for other technology under the project activity not provided against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.	
Project participant response	Date: 28-July-2023
The demonstration for the Solar and hydro power technology under the project activity is now provided against the requirement of Joint Project Description and Monitoring Report, v4.2 template.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to technologies of project activity instance and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 37. CAR from this verification

CAR ID	18	Section no.	1.17.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.17.2 of PD-MR, PP has stated that “Clean Electricity generation through Hydro Project result in avoidance of consumption of fossil fuels which results in contribution to SDG 7. The emission avoidance through these activities results in contribution to SDG 13. All the workers at site are trained which results in increase of skills, which contributes to SDG 4”, however, SDG goals mentioned in the table are not consistent with the description Joint Project Description and Monitoring Report, v4.2 template also it had not demonstrated achieving at least 3 SDGs against the requirement of VCS standard version 4.4 hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
SDG goals mentioned in the table are now consistent with the description Joint Project Description and Monitoring Report, v4.2 template				
Documentation provided by project participant				

Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
PP has not addressed the finding.	
Project participant response	Date: 14-August-2023
SDG goals mentioned in the table are now revised with the description Joint Project Description and Monitoring Report, v4.2 template	
VVB assessment	Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to response to SDG goals and indicators in the table and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 38. CAR from this verification

CAR ID	19	Section no.	1.17.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.17.2 of PD-MR, PP has stated that “About 67,216.901 MWh renewable electricity has supplied to Nepal grid during the crediting period that helps to increase the renewable energy share in the energy mix”, however, the response is not relevant as the “Current Project Contributions” demanded against the requirement of Joint Project Description and Monitoring Report, v4.2 template also the reported value is not consistent with ER sheet hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The response is now in line as per the “Current Project Contributions” demanded against the requirement of Joint Project Description and Monitoring Report, v4.2 template				
Documentation provided by project participant				
VVB assessment				Date: 09-August-2023
PP has not provided valid response.				
Project participant response				Date: 14-August-2023
The response is now in line as per the “Current Project Contributions” demanded against the requirement of Joint Project Description and Monitoring Report, v4.2 template				

VVB assessment	Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to “Current Project Contributions” response and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 39. CAR from this verification

CAR ID	20	Section no.	1.17.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.17.2 of PD-MR, PP has stated that “The project has increased the 65 participants’ total daily income from 1.20 USD/day to 2.57 USD/day, bringing them above the international poverty line.”, however, the response is not relevant to the specified SDG indicator against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The response is now corrected as per the specified SDG indicator against the requirement of Joint Project Description and Monitoring Report, v4.2 template				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023

Table 40. CAR from this verification

CAR ID	21	Section no.	1.17.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.17.2 of PD-MR, PP has not specified the indicators for all SDG goals against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023

The indicators for all SDG goals are now incorporated as per the requirement of Joint Project Description and Monitoring Report.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to response against SDG indicator 7.2.1 and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 41. CAR from this verification

CAR ID	22	Section no.	1.17.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.17.2 of PD-MR, PP has stated that “No training and employment has been monitored in the previous verifications” however, the response is not relevant as the “Current Project Contributions” demanded against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The Response is now corrected as per current project contribution in the Joint Project Description and Monitoring Report, v4.2				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to response against SDG indicator 8.5.1 and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 42. CAR from this verification

CAR ID	23	Section no.	1.17.2	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 1.17.2 of PD-MR, PP has stated that “By supplying 67,216.901 MWh clean electricity (generated through Solar and Hydro project) to Nepal grid, the project avoided release of 38,620 tCO ₂ e in to the atmosphere during the crediting period.” however, the response is not valid as this is the joint validation and first verification also PP has provided folder for training records hence, PP needs to provide the accurate information in respective sections.	
Project participant response	Date: 28-July-2023
The Statement is now corrected in the section 1.17.2 of the joint PDMR	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to response against SDG indicator 13.2.2 and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 43. CAR from this verification

CAR ID	24	Section no.	1.18	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 1.18 of PD-MR, PP has stated that “Not Applicable” in response to sub sections which is not found sufficient and in accordance with requirement of applied methodology, VCS standard version 4.4 and Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
In accordance with requirement of applied methodology, VCS standard version 4.4 the Section 1.18 is now Updated.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023

Validation & Verification Team has assessed correction proposed by PP with respect to leakage management and commercially sensitive information same is found appropriate hence, Validation & Verification Team accepts the response.

Table 44. CAR from this verification

CAR ID	25	Section no.	2.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 2.1 of PD-MR, PP has not provided the sufficient information on no net harm as per objective evidence provided with respect to Environmental Impact Assessment against the requirement of VCS standard version 4.4 hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
As per the requirement of VCS standard version 4.4 the Section is now updated.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP has not addressed the finding.				
Project participant response				Date: 14-August-2023
The section 2.1 is now updated as per the requirement.				
VVB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to demonstration upon net no harm and same is found appropriate hence, Validation & Verification Team accepts the response				

Table 45. CAR from this verification

CAR ID	26	Section no.	2.2	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 2.2 of PD-MR, PP has not provided the sufficient information upon stakeholder feedback collection, its conclusion and ongoing feedback collection mechanism against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.	
Project participant response	Date: 28-July-2023
The information upon stakeholder feedback collection is now updated on the Joint Project Description and Monitoring Report, v4.2	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed objective evidence provided by PP with respect to ongoing feedback collection format for local stakeholders along with is summary provided in respective section and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 46. CAR from this verification

CAR ID	27	Section no.	2.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 2.4 of PD-MR, PP has stated that “The details will be provided at the time of validation” which is subject to change against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The statement under the respective section is now in line against the requirement of Joint Project Description and Monitoring.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed objective evidence provided by PP with respect to summary of conclusion upon public comments and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 47. CAR from this verification

CAR ID	28	Section no.	3.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.1 of PD-MR, PP has not provided the version details of applied tools also it has not listed all the tools referred throughout the PD-MR against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
Tool number and its version number is now updated in the respective section of Joint Project Description and Monitoring Report, v4.2				
Documentation provided by project participant				
Revised Joint PD-MR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP has not completely addressed the finding				
Project participant response				Date: 14-August-2023
Tool version number is now updated in the respective section of Joint Project Description and Monitoring Report, v4.2				
VVB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to list of tools and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 48. CAR from this verification

CAR ID	29	Section no.	3.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.2 of PD-MR, PP has provided irrelevant criteria in row 1 and 2 of table in the context of applicability against the requirement of applied methodology hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023

In the Row 1 and 2 the Scope section para 2.1 of the applied methodology has been provided.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
PP has not addressed the finding.	
Project participant response	Date: 14-August-2023
In the Row 1 and 2 the Scope section para 2.1 of the applied methodology has been provided.	
VVB assessment	Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to scope of project activity and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 49. CAR from this verification

CAR ID	30	Section no.	3.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.2 of PD-MR, PP has stated that “The proposed project activity is solar PV power plant, not a Hydro power plant, therein; measure is not applicable to project activity under consideration.” In response to applicability criteria 3 However, information is inconsistent with respect to section 1.1 and other relevant sections for project description and design against the requirement of applied methodology hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The information is now consistent with respect to section 1.1 and other relevant sections for project description and design against the requirement of applied methodology.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed objective evidence provided by PP with respect to technologies of project activity instances and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 50. CAR from this verification

CAR ID	31	Section no.	3.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.2 of PD-MR, PP has stated that “There is no non-renewable component added to the proposed project activity. However, the capacity of the said project activity itself shall not exceed 15 MW.” in response to applicability criteria 5 However, information is inconsistent with respect to section 1.1 and other relevant sections for project description and design against the requirement of applied methodology hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The information is now consistent with respect to section 1.1 and other relevant sections for project description and design against the requirement of applied methodology				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to technology and information upon no added unit in response to condition 5 hence, Validation & Verification Team accepts the response.				

Table 51. CAR from this verification

CAR ID	32	Section no.	3.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.2 of PD-MR, PP has not addressed the all the applicability criteria for CDM TOOL07 and applicability criteria of tool required additionality assessment against the requirement of applied methodology hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The applicability criteria for CDM TOOL07 is now updated as per the requirement.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				

VVB assessment	Date: 09-August-2023
PP has not addressed the finding fully.	
Project participant response	Date: 14-August-2023
The applicability criteria for CDM TOOL07 is now updated as per the requirement.	
VVB assessment	Date: 15-August-2023
Validation and Verification Team has assessed the correction proposed by PP with respect to applicability condition of applied Tool and same is found appropriate hence, Validation and Verification Team accepts the response	

Table 52. CAR from this verification

CAR ID	33	Section no.	3.3	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.3 of PD-MR, PP has stated that “Therefore the entire Nepal grid and all connected power plants have been considered in the project boundary for the proposed project activity” however same is not reflected in diagram of project boundary in accordance with the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The statement is now inline as per the diagram provided in the respective section.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to information upon project boundary and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 53. CAR from this verification

CAR ID	34	Section no.	3.5	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 3.5 of PD-MR, PP has not addressed all the criteria of additionality against the requirement of VCS standard version 4.4 hence, PP needs to provide the accurate information in respective sections.	
Project participant response	Date: 28-July-2023
All the criteria of additionality have been provided now in the respective section.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation and Verification Team has assessed the correction proposed by PP with respect to incorporation of additionality criteria same is found appropriate hence, Validation and Verification Team accepts the response.	

Table 54. CAR from this verification

CAR ID	35	Section no.	3.5	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has stated that “Since 3 project activity instances are installed of solar photovoltaic units at various locations with capacity less than 5 MW, it can be concluded from the above list that the project activity is automatically additional and does not require demonstration of barriers” however PP has not followed the stepwise barrier identification for other instance which are not demonstrated as “automatically additional” as same are not listed as positive as per paragraph 11 of EB 116, Annex 24 hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The stepwise barrier identification for other instance which are not demonstrated as “automatically additional” is now Incorporated in the respective section.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP has not addressed the finding.				
Project participant response				Date: 14-August-2023

Table 55. CAR from this verification

CAR ID	36	Section no.	3.5	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has stated that “As per the tool 19 (Demonstration of additionality of microscale project activities Version10.0) reference of additionality the Project Activity located in Bangladesh which is LDC country hence Said criteria is not applicable, like no additionality will be required” however the information is not consistent with respect to the section 1.1 and other respective section of PD-MR hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The information is now in line with respective sections.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to host country and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 56. CAR from this verification

CAR ID	37	Section no.	3.5	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has stated that “Thus the project follows section 5.3.2 of the applied methodology which requires the project proponent to determine the additionality based on “Tool for the demonstration and assessment of additionality”, Version 07.0.0.” however no such section exist in applied methodology hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The statement is now removed. As it was some typo error.				
Documentation provided by project participant				

VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to elimination of wrong reference for applied tool in context of additionality and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 57. CAR from this verification

CAR ID	38	Section no.	3.5	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has only provided the result of additionality assessment through stepwise approach only for Kaberi B1 Cascade Hydro Project Activity while same is not done for remaining project activity instances hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The result of additionality assessment through stepwise approach is now provided for other project which are more than 5 MW.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation and Verification Team has assessed the correction proposed by PP with respect to incorporation of additionality criteria same is found appropriate hence, Validation and Verification Team accepts the response.				

Table 58. CAR from this verification

CAR ID	39	Section no.	3.5	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has not provided value for the investment analysis input parameter Expected Date of Commissioning, Tariff rate at the decision making (NR/kWh), O & M Expenses (NR Mn.), Term loan, Repayment Period (Qtr.) and other in accordance with the IRR sheet hence, PP needs to provide the accurate information in respective sections.				

Project participant response	Date: 28-July-2023
The investment analysis input parameter Expected Date of Commissioning, Tariff rate at the decision making (NR/kWh), O & M Expenses (NR Mn.), Term loan, Repayment Period (Qtr.) is now updated in the respective section.	
Documentation provided by project participant	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to input parameter for investment analysis and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 59. CAR from this verification

CAR ID	40	Section no.	3.5	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 3.5 of PD-MR, PP has not provided result of sensitivity analysis output in accordance with the IRR sheet hence, PP needs to provide the accurate information in respective sections.				
Project participant response				Date: 28-July-2023
The result of sensitivity analysis output is now provided in accordance with the IRR sheet.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to information upon sensitivity analysis and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 60. CAR from this verification

CAR ID	41	Section no.	4.1	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 4.1 of PD-MR, PP has not provided the response on operation of project activity for current monitoring period as it only includes stage till commercial operation start and some bullet points on pre operation planning that against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective section.	
Project participant response	Date: 28-July-2023
The Information regarding the operation has now been provided in the section 4.1	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to information upon shut down or any other possible cause on actual emission reduction during current monitoring period and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 61. CAR from this verification

CAR ID	42	Section no.	5.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 5.1 of PD-MR, PP has provided the table “Share of Low Cost / Must-Run (% of Net Generation)” stating the “CO2 Baseline Database for the Nepal Power Sector, User Guide (Version 18; December 2022)” however, reference to the actual source is https://cea.nic.in/wp-content/uploads/baseline/2023/01/Approved_report_emission_2021_22.pdf calculated and applicable for Indian grid hence, PP needs to justify how the CEA data is valid for Nepal grid against the requirement of applied methodological tool hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
In section 5.1 baseline emission – justification is now provided as per requirement of methodology.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023

Validation & Verification Team has assessed correction proposed by PP with respect to justification upon source of information for the Table “Share of Low Cost / Must-Run (% of Net Generation)” and same is found appropriate hence, Validation & Verification Team accepts the response.

Table 62. CAR from this verification

CAR ID	43	Section no.	5.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 5.2 of PD-MR, PP has stated that “As per para 20 of CDM Methodology AMS.I. D, (Version 18), since the proposed project activity is electricity generation based on solar photovoltaic technology, there will be no fossil fuel combustion during the project activity and hence there will be no project emissions” which is not consistent with the information in section 1.1 for all project activity instance hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
In the respective section the Statement is now Corrected.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to technologies of project activity instances as well accurate referencing to the criteria of applied methodology for project emissions and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 63. CAR from this verification

CAR ID	44	Section no.	5.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 5.4 of PD-MR, PP has provided table for “Ex-ante Emission Reductions Calculations” however same are do not have sufficient information in section 5.1 upon project instance for the parameter/equations are calculated and hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023

In the table “Ex-ante Emission Reductions Calculations” the information of all the project instances are now updated.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to calculation of parameter/equations in section 5.1 and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 64. CAR from this verification

CAR ID	45	Section no.	5.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 5.4 of PD-MR, PP has provided table for the parameters/equation values for Capacity Utilization Factor which are for India grid system as per source of information and not for Nepal grid hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
Section 5.4 is now revised.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VB assessment				Date: 09-August-2023
PP has not addressed the finding				
Project participant response				Date: 14-August-2023
Section 5.4 is now revised as per the requirement of the Joint PDMR				
VB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to parameters/equation values for Capacity Utilization Factor and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 65. CAR from this verification

CAR ID	46	Section no.	5.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 5.4 of PD-MR, “Power Purchase from India” value is mentioned however, PP has not provided the actual source of information also it had not demonstrated how the electricity generation of Nepal is determines as the NEA link is simply referred hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
Section 5.4 is now revised.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP has not addressed the finding				
Project participant response				Date: 14-August-2023
Section 5.4 is now revised as per the requirement of the Joint PDMR				
VVB assessment				Date: 15-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to information upon Power Purchase from India and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 66. CAR from this verification

CAR ID	47	Section no.	5.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 5.4 of PD-MR, PP has provided equation for “Connected system weighted average combined Emission Factor” however neither such system nor the development of parameter is identified also PP has not demonstrated how did it come up with the list of emission factors in table for “Calculation of emission factor” against the requirement of applied methodology hence, PP needs to provide the accurate information in respective section.				

Project participant response	Date: 28-July-2023
Section 5.4 is now revised.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to calculation of parameter/equations in section 5.1 and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 67. CAR from this verification

CAR ID	48	Section no.	6.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 6.1 of PD-MR, PP has list parameters $EF_{Grid, CM, y}$ and $EF_{grid, y}$ without any distinguishable nature or purpose also $EF_{Grid, CM, y}$ value same as “Connected system weighted average combined Emission Factor” in section 5.4 however description and calculation approach of parameter is not consistent hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
Section 6.1 is now revised.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to parameters as in distinguishable way for host country grid and “Connected System Grid (India)” and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 68. CAR from this verification

CAR ID	49	Section no.	6.1	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 6.1 of PD-MR, PP has listed parameters in following section however the indication, description and calculation approach are found inconsistent with respect table for “Calculation of emission factor” section 5.4 hence, PP needs to provide the accurate information in respective section.	
Project participant response	Date: 28-July-2023
Section 6.1 is now revised.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to parameters in section 6.2 as per “Calculation of emission factor” in section 5.4 and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 69. CAR from this verification

CAR ID	50	Section no.	6.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 6.2 of PD-MR, PP has listed the monitoring parameter $EG_{PJ, facility, y}$ is not calculated as per applied methodology against the requirement of Joint Project Description and Monitoring Report, v4.2 hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
Section 6.2 is now revised.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP has not addressed the finding				
Project participant response				Date: 14-August-2023
Section 6.2 is now Corrected.				
VVB assessment				Date: 15-August-2023

Validation & Verification Team has assessed the correction proposed by PP with respect to monitoring parameter EG PJ,facility,y and same is found appropriate hence, Validation & Verification Team accepts the response.

Table 70. CAR from this verification

CAR ID	51	Section no.	6.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 6.2 of PD-MR, PP has not provided the parameter for net electricity generation also it has to provided justification upon breakdown, mission monthly data and conservativeness applied for Chandranigahpur 4 MW solar power plant (Jun-Aug 2021), Dhalkeber 1 MW solar power plant (Jun-Dec 2021), Simara 1 MW solar power plant (Jun 2021- Jun 2022), Kaberi-B1 Cascade 9.94 MW hydro power plant (Jun 2021-Feb 2022) which is evident in ER sheet for net generation calculation hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
Section 6.2 is now revised and accurate information are now provided. Information of breakdown is now mentioned in section 4.1.				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
Validation and Verification Team has assessed the correction proposed by PP with respect to information upon breakdown same is found appropriate hence, Validation and Verification Team accepts the response.				
Project participant response				Date: 14-August-2023

Table 71. CAR from this verification

CAR ID	52	Section no.	6.3	Date: 07-July-2023
Description of CAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01	
In section 6.3 of PD-MR, PP has not provided the sufficient information in homogenous manner for all project activity instances for initial 4 points and with respect to GHG data collection and management system schematic representation against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective section.	
Project participant response	Date: 28-July-2023
Section 6.3 and monitoring plan has been revised now.	
Documentation provided by project participant	
Revised Joint PDMR version 2 dated 28.07.2023	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to GHG data collection and management system schematic representation and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 72. CAR from this verification

CAR ID	53	Section no.	7.1	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 7.1 of PD-MR, PP has not provided list of parameters against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
All the list of parameters is now provided as per the requirement of Joint Project Description and Monitoring Report, v4.2				
Documentation provided by project participant				
Revised Joint PDMR version 2 dated 28.07.2023				
VVB assessment				Date: 09-August-2023
PP has not addressed the finding				
Project participant response				Date: 14-August-2023

All the list of parameters is now provided as per the requirement of Joint Project Description and Monitoring Report, v4.2	
VVB assessment	Date: 09-August-2023
Validation & Verification Team has assessed the correction proposed by PP with respect to list of parameters and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 71. CAR from this verification

CAR ID	54	Section no.	6.2	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 6.2 of PD-MR, PP has not calculated the baseline emission for current monitoring period in accordance with the ER sheet against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
The baseline emission is now Calculated in the respective section for current monitoring period in accordance with the ER sheet.				
Documentation provided by project participant				
Actual ER sheet				
VVB assessment				Date: 09-August-2023
Validation and Verification Team has assessed the correction proposed by PP with respect to baseline emission calculation same is found appropriate hence, Validation and Verification Team accepts the response.				

Table 72. CAR from this verification

CAR ID	55	Section no.	7.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 7.4 of PD-MR, PP has altered the Joint Project Description and Monitoring Report, v4.2 template for leakage hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023

The Section has been now updated as per the latest template of Joint Project Description and Monitoring Report, v4.2.	
Documentation provided by project participant	
Revised Joint PDMR	
VB assessment	Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to elimination of alteration error for leakage section and same is found appropriate hence, Validation & Verification Team accepts the response.	

Table 73. CAR from this verification

CAR ID	56	Section no.	7.4	Date: 07-July-2023
Description of CAR				
Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01				
In section 7.4 of PD-MR, PP has altered the Joint Project Description and Monitoring Report, v4.2 template also, it has not provided the sufficient response against the requirement of Joint Project Description and Monitoring Report, v4.2 template hence, PP needs to provide the accurate information in respective section.				
Project participant response				Date: 28-July-2023
The Section has been now updated as per the latest template of Joint Project Description and Monitoring Report, v4.2.				
Documentation provided by project participant				
Revised Joint PDMR				
VB assessment				Date: 09-August-2023
Validation & Verification Team has assessed correction proposed by PP with respect to information upon leakage and same is found appropriate hence, Validation & Verification Team accepts the response.				

Table 74. FAR for this verification

FAR ID	01	Section no.	1.1	Date: 07-July-2023
Description of FAR				

Monitoring Period: 22/08/2021 to 31/05/2023, Crediting Period: 01

In section 1.1 of PD-MR, PP has included Instance titled as “Ingwa HydroPower Limited -Upper Ingwa” however, same is not yet commissioned hence, during next verification the new project activity instance has to be validated as per eligibility criteria of VCS standard version 4.4.

Project participant response

Date: 28-July-2023

The PP has stated that. “ approved required commercial operation date (RCOD) of the Upper Ingwa Hydro Power Project of capacity 9.70 MW was fixed at (15th May 2023) as per the Power Purchase Agreement with Nepal Electricity Authority (NEA). Accordingly, the plant's final erection work was going on at the project location. There was heavy rainfall in the project catchment area, causing a big flood in the river on June 18th and 19 th,2023. The flood washed out some of the structures on the project built by the company. The repair and reconstruction work of the project will take six more months. Hence, the revised RCOD date of this project shall be November 15,2023.

Project developer also has submitted statement for 95% completion of upper ingwa site and will be commissioned in month of November 2023.

Documentation provided by project participant

RCOD extention document by project developer Ingwa Hydropower limited for the upper ingwa instance.

VVB assessment

Date: 09-August-2023

Not Closed

<2→ LIST OF DOCUMENTS REVIEWED>

No.	Author	Title	References to the document
1	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Arun Valley Hydropower Development Company Limited, API Power Company Limited	VCS 4234_PD-MR_V03_TA-R2-Response	Refer to attachment
2	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Estimated ER Sheet, Actual ER Sheet	Refer to Attachment
3	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	IRR Sheets	Refer to Attachment
4	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower	EPC Contracts	Refer to Attachment

	Development Company Limited, API Power Company Limited		
5	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Commissioning Certificates, RCOD Extension for Upper Ingwa	Refer to Attachment
6	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Power Purchase Agreements	Refer to Attachment
7	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	EIA-IEE reports	Refer to Attachment
8	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley	Operation & Maintenance Agreement	Refer to Attachment

	Hydropower Development Company Limited, API Power Company Limited		
9	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Supplier's agreement for equipment/instruments	Refer to Attachment
10	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Local Stakeholder Consultation records	Refer to Attachment
11	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Single Line Diagrams	Refer to Attachment
12	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower	Detailed Project Report,	Refer to Attachment

	Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited		
13	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Calibration Certificates	Refer to Attachment
14	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Breakdown Reports	Refer to Attachment
15	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED, Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited	Joint Metering Reports (MP: 22-August-2021 to 31-May-2023)	Refer to Attachment
16	EKI Energy Services Limited, RIDI POWER COMPANY LIMITED,	Training Records	Refer to Attachment

	Ingwa HydroPower Limited, Arun Valley Hydropower Development Company Limited, API Power Company Limited		
17	Ridi Power Company Limited Trade Tower, Thapathali	Employee salary Slip: 1) Jestha 2078 2) Mangsir 2080	Refer to Attachment
18	T. Subhash & Associate	CA Certificate for capital investment	Refer to Attachment
19	Nepal Investment Bank Ltd.	Loan agreement between PP and Bank	Refer to Attachment

APPENDIX: 2

CERTIFICATE OF APPOINTMENT

ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT



South Asia

CERTIFICATE OF APPOINTMENT

Ms. Shruti Kudtarkar fulfills the requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd to participate in audits.

Qualification applicable to						
Standard	CDM	GS	VCS	ISO-14064-1, 2	Other- GCC, PAS 2060	
	☒	☒	☒	☒	☒	
Qualified as						
Status	Validator	Verifier	ATL	Technical Reviewer	Financial Expert	Technical Expert
	☒	☒	☒	☒	☒	☒
TA- *A	CDM - 1.2, 13.1 SO 14064-1 - (11,13) ISO 14064-2 - (1,13)					
TA- **UA	-					
Country Expertise						
Region	1 Americas ☐	2 ASEAN, South Asia, Middle East & Africa ☒	3 Central & Eastern Europe ☐	4 Germany ☐	5 North Asia ☐	6 Western Europe ☐
Further Countries	India, Malaysia, Sri Lanka, Indonesia, Paraguay, Myanmar					
Technical Area (TA) / Scope						
TA- *Accredited CDM/GCC- 1.2_Renewables, 13.1_Waste handling and Disposal. ISO 14064-1- Waste handling and disposal, General. ISO 14064-2- Energy industries (renewable), Energy demand, Waste handling and disposal VCS - Energy Industries (renewable), Waste Handling and Disposal						
This appointment is valid until 25/10/2024 and is bound by internal requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd.						
In case of loss of validity of this certificate as per result of an assessment according to internal procedures or due to any other reason, it will be properly communicated to you. Your Certificate has the internal reference no. CB-IND-CCP-0022/004.						
Date			Signature			
04/03/2024			 Deepankar Chowdhury			

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CERTIFICATE

CERTIFICATO

証明書

CERTIFICADO

CERTIFICATE

ZERTIFIKAT



CERTIFICATE OF APPOINTMENT

Mr. Rishi Raychoudhury fulfills the requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd to participate in audits.

Qualification Details

Standard	Sectoral Scope	Technical Area	Technical Area Description	Role
CDM/GCC	SS1, SS3	1.2, 3.1	1.2 Renewables 3.1 Energy Demand	VAL/VER/ATL/TR/TE
GS	GS4GG, Energy and Waste, Land use and Forest	-	1.2 Renewables 3.1 Energy Demand	VAL/VER/ATL/TR/TE
VCS	-	1, 3	1 Energy Industries (renewables), 3 Energy Demand	VAL/VER/ATL/TR/TE
ISO 14064-1	-	13	13 General	VAL/VER/ATL/TR/TE
ISO 14064-2	-	1, 3	1 Energy Industries (renewables), 3 Energy Demand	VAL/VER/ATL/TR/TE
PAS 2060	-	-	Carbon Neutrality	VAL/VER/ATL

Country Expertise: India

Certificate Number: CB-IND-CCP-0046/003

Issued on: 04/10/2024

Valid until: 18/07/2025

Version	Date	Reason for Revision
01	19/07/2024	Initial appointment
02	24/07/2024	Added GS scheme
03	04/10/2024	Added PAS 2060

Legend:

VAL - Validator, VER - Verifier, ATL - Audit Team Leader, TR - Technical Reviewer, TE - Technical Expert, FE - Financial Expert, CE - Country Expert, EE - Environment Expert, SE - Social Expert
CDM - Clean Development Mechanism, VCS - Verified Carbon Standard, GS4GG - GoldStandard for Global Goals, GCC - Global Carbon Council, PPRS - Plastic Pollution Reduction Standard

This appointment is bound by internal requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd. In case of loss of validity of this certificate as per result of an assessment according to internal procedures or due to any other reason, it will be properly communicated to you.



Issued By
Quality Manager

IS-CMS-CB-POG-01/05, version 07

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ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT



South Asia

CERTIFICATE OF APPOINTMENT

Mr. Sudheendra, K fulfills the requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd to participate in audits.

Qualification applicable to						
Standard	CDM	GS	VCS	ISO-14064-1, 2	Other-GCC	
	☒	☒	☒	☒	☒	
Qualified as						
Status	Validator	Verifier	ATL	Technical Reviewer	Financial Expert	Technical Expert
	☐	☐	☐	☒	☐	☒
TA- *A	CDM / GCC – 1.1, 1.2, ISO 14064-1 - 1 ISO 14064-2 – 1 VCS – 1					
TA- **UA	-					
Country Expertise						
Region	1 Americas ☐	2 ASEAN, South Asia, Middle East & Africa ☒	3 Central & Eastern Europe ☐	4 Germany ☐	5 North Asia ☐	6 Western Europe ☐
Countries	India					
Technical Area (TA) / Scope						
TA- *Accredited CDM / GCC -1.1 Thermal, 1.2 Renewable ISO 14064 – 1 - Power Generation and Electric Power Transactions ISO 14064-2 - Energy industries (renewable/non-renewable sources) VCS - Energy industries (renewable/non-renewable sources)						

This appointment is valid until 31/07/2025 and is bound by internal requirements of the Certification Body 'Environment and Energy' of TÜV SÜD South Asia Pvt Ltd.

In case of loss of validity of this certificate as per result of an assessment according to internal procedures or due to any other reason, it will be properly communicated to you.
Your Certificate has the internal reference no. CB-IND-CCP-0104/006.

Date	Signature
20/05/2024	 Deepankar Chowdhury

