



GREENFIELD SOLAR POWER MISSION BY FORTUM INDIA



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Summary:

RINA has performed the verification of the emission reductions reported for the “Greenfield Solar Power Mission by Fortum India”, corresponding to the monitoring period from 01 July 2024 to 31 July 2025 to review and determine the monitored reduction in GHG emissions have occurred as a result of the project activity.

The verification was conducted by means of document review, follow-up interviews and on-site inspection, and the resolution of outstanding issues. The review of the VCS monitoring report and the subsequent follow-up interviews and audit have provided RINA with sufficient evidence to determine the fulfilment of stated criteria.

The objective of the verification is to have an independent review ex post determination of the monitored reductions in GHG emission reductions, verification was conducted using RINA procedures in line with the requirements specified in the VCS Verification Report Template version 4.4 requirements /28/, Verified Carbon Standard: VCS Standard version 4.7 dated 16 April 2024 /12/, Verified Carbon Standard: VCS Program Guide, version 4.4 dated 29 August 2023 /13/. and applying standard auditing techniques. The verification consisted of desk review, presential site assessment and the resolution of outstanding issues

and the issuance of the final verification report and certification. The verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable VCS requirements in order to be certified.

This is the fifth verification assessment of “Greenfield Solar Power Mission by Fortum India” for the monitoring period of 01 July 2024 to 31 July 2025 (Inclusive of both days). The GHG emission reductions were calculated on the basis of the approved CDM methodology ACM0002: “Grid connected electricity generation from renewable sources” version 19.0 of 31/08/2018 /09/ and Tool 7: Tool to calculate the emission factor for an electricity system; Version 07.0 dated 31 August 2018/11/, Tool 1: Tool for the demonstration and assessment of additionality; version 07.0 dated 23 November 2012 /10/ and the monitoring plan included in the validated VCS PD version 02 of 19 December 2019 /03/.

During the verification process 21 Corrective Action Requests (CARs), 01 Clarifications Request (CL) were raised and properly addressed by project participant in Appendix IV.

In conclusion, it is RINA's opinion that the project activity “Greenfield Solar Power Mission by Fortum India” in India, meets all relevant requirements for VCS standard and guidelines and correctly applies the baseline and monitoring CDM methodology ACM0002: “Grid-connected electricity generation from renewable sources” version 19.0. dated 31 August 2018 /09/. The monitoring system is in place, and the emission reductions are calculated without material misstatement. Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01 July 2024 to 31 July 2025 amount is 574,786 tCO_{2e} and 613,563 MWh of net electricity has been generated in this monitoring period.

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1 INTRODUCTION

1.1 Objective

The Fortum India Private Limited has commissioned RINA Services S.p.A. (RINA), to undertake the verification of energy production efficiency of solar project entitled “Greenfield Solar Power Mission by Fortum India” project in Rajasthan, India, VCS project ID 2069. The verification team has reviewed the GHG data collected for the monitoring period from 01 July 2024 to 31 July 2025 (Inclusive of both days). The main objective of the verification is to have an independent third-party assessment of monitoring report version and the supporting documents to verify the compliance with laws, rules, guidelines and regulations set forth by the VCS. Specifically,

- The project’s baseline is assessed against “ACM0002 methodology for “Grid-connected electricity generation from renewable sources”, Version 19, Dated: 31-August-2018 /09/
- Tool 01 “Tool for the demonstration and assessment of additionality”, Version 07.0, Dated: 23-November-2012 /10/
- Tool 07 “Tool to calculate the emission factor for an electricity system” Version 07.0, Dated: 31 August 2018 /11/

VCS standard version 4.7 dated 16-April-2024 /12/

VCS program guide version 4.4 dated 29-August-2023 /13/

Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified carbon units (VCUs).

1.2 Scope and Criteria

The scope of the verification was the independent and objective review and ex-post determination of the monitored reductions in GHG emissions from “Greenfield Solar Power Mission by Fortum India” VCS project ID 2069. The verification of this project was based on the monitoring report and supporting documents submitted by the project proponent to the verification team. The documents were reviewed against the following guidance and protocols:

- VCS Program Guide (version 4.4, dated 29-August -023) /13/
- VCS Standard (version 4.7, dated 16-April-2024) /12/
- VCS Program Definitions (v4.4, dated 29 August 2023) /14/
- VCS Registration & Issuance Process (v4.4, dated 04 October 2023) /15/

- VCS approved methodology AMC0002 (version 19.0, dated 31 August 2018) /10/

The verification scope is:

- to verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- to evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.
- to verify that reported GHG emission data is sufficiently supported by evidence;
- to evaluate whether all the mitigation measures have been effectively put in place according to the monitoring plan and that all the sustainable development indicators have been correctly monitored.

Verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable VCS Standard Version 4.7 requirements, which refer to CDM rules, in order to be certified.

UNFCCC criteria for CDM refer to Article 12 of the Kyoto Protocol, the CDM modalities and procedures, and the subsequent decisions by the CDM Executive Board.

The verification is not meant to provide any consulting towards the client. However, stated request for clarifications and/or corrective actions may provide input for improvement of the project design. The verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. There are no material errors, overestimation of ER, omission or misstatement.

1.3 Level of Assurance

RINA provides reasonable assurance that the “Greenfield Solar Power Mission by Fortum India” meets VCS criteria. To ensure complete transparency, any clarification or corrective actions raised have been included in the Appendix II. The verification expresses a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.

As per VCS Standard Version 4.7 /12/ (paragraph 4.1.8-4), the threshold for materiality with respect to the aggregate of errors, omissions, and misrepresentations relative to the total reported GHG emission reductions and/or removals shall be five percent for projects and one percent for large projects. The materiality of five percent is applicable to this project.

An audit has been performed on 29/September/2025 and it is confirmed that the monitoring arrangements in the monitoring plan are feasible within the project design.

The data presented in the monitoring report were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. The implementation of the project activity was verified through pictures taken during the audit by RINA.

Therefore, it is RINA's opinion that the claimed emission reductions are free from material errors, omissions or misstatements, with reasonable level of assurance.

All the revisions of the verification report before being submitted to the client were subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent RINA instructions, with reasonable level of assurance.

The technical review was performed by a technical reviewer(s) qualified in accordance with RINA's qualification scheme for VCS and CDM validation and verification. The verification team and the technical reviewers consist of the following personnel.

Role/Qualification	Last Name	First Name	Country
VCS Team Leader – VCS Verifier	Kumar Pathak	Atin	India
Verifier	Verma	Lata	India
Verifier in Training	Ramaswamy	Ramya	India
Verifier	Kumar	Ashish	India
Independent Technical Reviewer	Augustus	Cyril	India

1.4 Summary Description of the Project

Project Proponent	Fortum India Private Limited
Title of the Project activity	Greenfield Solar Power Mission by Fortum India
Baseline and monitoring methodology	ACM0002: Grid-connected electricity generation from renewable sources, version 19 TOOL 01: Tool for the demonstration and assessment of additionality, version 07

	TOOL 07: Tool to calculate the emission factor for an electricity system, version 07
Location of the project activity	The solar power project is of 250 MW capacity located in Village - Luna Khurd, Luna Kala and Betina, District Jaisalmer, State Rajasthan, India. The RINA team checked the location against Google earth (<u>Untitled project - Google Earth</u>) /20/ and concluded that it was consistent. The same was also checked with GPS during the onsite visit and confirmed as accurate. Geo-coordinates as per MR: Latitude 26°40'18.21"N, Longitude 71°32'07.70' E Geocoordinates as per Google Earth: Latitude 26°67'30.02"N, Longitude 71°53'34.26' E
Brief description of the project	The "Greenfield Solar Power Mission by Fortum India" is located in Jaisalmer district of Rajasthan as per the registered PD /03/ and MR version 04 /01/. This solar project comprises a total installed capacity of 250 MW and the electricity generated from the project is supplied to the Indian grid. This solar project is expected to generate approximately 440,514 MWh of renewable electricity annually, contributing to an estimated reduction of 412,674 tCO₂e in greenhouse gas emissions each year over the 10 years of crediting period as illustrated in the registered PD /03/. This solar project was commissioned in two phases: 150 MW on 19 March 2021 and 100 MW on 01 May 2021 /21/ as described in section 3.1 of the current MR provided by the PP/01/. During the current monitoring period (01 July 2024 to 31 July 2025), a total of 613,563 MWh of net electricity was generated, resulting in a greenhouse gas emission reduction of 574,786 tCO₂e.
Project Crediting period	19 March 2021 to 18 March 2031
Project Monitoring period	01 July 2024 to 31 July 2025

2 VERIFICATION PROCESS

2.1 Method and Criteria

The verification was conducted using RINA Services S.p.A procedures in accordance with the requirements specified in the VCS Standard version 4.7 /12/.

The on-site audit for this project was accomplished from 29/September/2025 for assessing the project activity and stakeholder's consultation process. The verification for this project was performed by using RINA procedure in accordance with the requirements stated in the VCS standard 4.7.

The verification assessment consists of the following phases:

- Document review;
- Follow-up actions;
- Onsite audit and interviews
- The resolution of outstanding issues and
- Issuance of the final verification report.

The information provided by the project participants is assessed by applying the means of the verification specified in the VCS Standard v4.7.

The audit team began with a desk review, followed up by On-site inspection as well as direct interview and discussion with the project proponent representatives followed by preparation of list of findings and draft verification report. The next stage is to evaluate the findings through direct discussion with the PPs and prepare the verification report.

2.2 Document Review

The VVB assessment team checked the required documents, and cross verified the same by discussing with PP during On-site visit. The auditing team has also cross verified the technical equipment with the proof documents provided by the PP. The following additional documentation, provided by project personnel in support of the aforementioned documents, was also reviewed by the audit team is in Appendix II of this report.

2.3 Interviews

The RINA verification team interviewed the concerned persons on-site to confirm the information provided by the PP and also resolved the issues found during the review of documents. The list of people interviewed are tabulated below:

Sr. No.	Date	Name and Role	Organization	Topic
1.	29/September/2025	Amitar Mukerjee	SPRNG Solar Plus Private limited	- Monitoring plan - Monitoring methodology - Monitoring data - Implementation status of the project - Monitoring equipment and operation - Calibration certificates - Emission Reductions calculation - Positive and negative impacts of the project activity
2.		Mag Singh	SPRNG Solar Plus Private limited	
3.		Ramesh Kumar	SPRNG Solar Plus Private limited	
4.		Sonu Kumar	Inox group	
5.		Vikram Singh	Farmer (Luna Village)	
6.		Vikram Singh	Security (Luna Village)	
7		Kema Ram	Driver (Sakra Village)	

2.4 Site Visits

The audit team performed onsite audit at project site from 29/September/2025 and physically inspected the project technical design and implementation as specified in the VCS MR version 04 /01/.

The site visit was conducted to verify the accuracy and completeness of the project description. The audit team interviewed the main representative on-site regarding the project implementation.

2.5 Resolution of Findings

The goal of this step is to identify, discuss, and draw conclusions about any problems that may affect the registered project activity's ability to reduce emissions or have an impact on the recording, monitoring, and reporting of those reductions. These problems may be related to the sampling size, monitoring parameters and monitoring plans, implementation status, or operations of the registered project activity. Based on the desk review and site evaluation, this was carried out. The verification team creates and/or maintains verification procedures (internal document) that documents conformities and non-conformities, which may include the following kinds of issues:

If one of the following occurs, a CAR (Corrective Action Request) is raised:

- the project participants have not adequately recorded their non-compliance with the project description, the monitoring methodology and its tools are not applicable, the additionality instruments are not sufficient, or the evidence provided to demonstrate conformity is insufficient;
- If the project participants have not appropriately recorded any non-conformance with the monitoring plan, methodology, or standard baseline when monitoring and reporting is performed, or if there is insufficient evidence to support conformity;
- The project participants have not appropriately documented changes to the implementation, operation, and monitoring of the registered project activities;
- The quantity of emission reductions will be impacted by errors in the application of assumptions, data, or computations;
- The project participants have not addressed problems identified in a FAR during validation that need to be confirmed during verification or in a prior verification.

If there is inadequate or unclear information to assess if the relevant VCS standards have been satisfied, a clarification request (CL) is made. Prior to submitting a request for registration and issuance, any CAR and CL that the RINA Services S.p.A. (RINA) raised during validation and verification must be addressed.

21 Corrective Action Requests (CARs) and 01 Clarification Requests (CLs) were raised during verification and are successfully closed. FAR was not raised during this verification period.

Appendix IV contains all the findings that are brought forward and shared with project participants during the verification. The section also covers the project participants' responses, if any, and the verification team's evaluation subsequently for any open findings.

2.5.1 Forward Action Requests

The project activity is undergoing Verification under VCS, and no FAR issues have been raised.

2.6 Eligibility for Validation Activities

This section is not applicable.

3 VALIDATION FINDINGS

3.1 Methodology Deviations

There is no methodology deviation. Hence, this section is not applicable for present verification.

3.2 Project Description Deviations

During the onsite audit, it was verified that the project is operating as described in the registered VCS PD /03/ and continues to comply with the relevant methodology and VCS standards. No deviations from the Project Description were requested during the monitoring period from 01/July/2024 to 31/July/2025 (inclusive).

However, the following project description deviations were approved during the first verification:

As per the registered PD, the PP initially specified the crediting period from 1st December 2020 to 30/November/2020, with an projected date of project commissioning 01/December/2020. However, the project was commissioned on 19/March/2021, as verified by a commissioning certificate /21/. The project proponent requested to adjust the crediting period start date to align with the actual commissioning date. After assessment, the Project Proponent (PP) confirms that this deviation does not affect the applicability of the methodology, additionality, or the appropriateness of the baseline scenario.

During the verification of first monitoring period, it was observed that the geo-coordinates mentioned in the monitoring report are different from the geo-coordinates mentioned in the registered PD. This discrepancy occurred because the project had not been commissioned at the time of registration, leading to a difference between the actual coordinates and those listed in the registered VCS PD/03/. The issue has already been resolved in previous verification reports /05/ /06/ /07/ /08/ /16/ and RINA team has also confirms the accuracy of the coordinates /20/ during the audit. The PP affirms that this change does not affect the methodology's applicability, additionality, or the baseline scenario of the project activities.

It was observed that the technical specifications /22/ of the equipment (PV module type and capacity) used in the actual installation differed from those outlined in the registered PD /03/. During the audit, the project proponent explained that this discrepancy occurred because the project was not yet commissioned at the time of registration, and the exact specifications were unavailable. This issue was addressed in a previous verification /05-08/. During the current audit, the updated technical specifications were confirmed, and the project proponent provided supporting documentation to verify the same. The PP confirms that this change does not impact the applicability of the methodology, the additionality, or the baseline scenario.

According to the registered PD /03/ the project proponent of the project activity was “Fortum Solar Plus Private Limited” and on 14/June/2022 the name of the “Fortum Solar Plus Private Limited” has been changed into “SPRNG Solar Plus Private Limited”. A declaration has been submitted to VERRA declaring that all Carbon Credits rights were transferred from "Sprng Solar Plus Private Limited" (formerly known as "Fortum Solar Plus Private Limited") to "Fortum India Private Limited." Subsequently, "Fortum India Private Limited" will act as the project proponent for the project activity. Thus, the project proponent name has been revised in the monitoring report as "Fortum India Private Limited". The PP affirms that this change does not impact the methodology's applicability, additionality, or the baseline scenario of the project activities.

The project proponent (PP) has transferred the project activity registry account from the former account holder, "EKI Energy Services Limited" (Account ID-1851), to "Fortum India Private Limited" (Account ID-4660). Consequently, Fortum India Private Limited now holds exclusive responsibility for all communications and issuance related to the project. The PP confirms that this change does not impact the applicability of the methodology, the additionality, or the baseline scenario.

Infinite Environmental Solutions Limited (Infinite Solutions) has been designated as the new project consultant, replacing EKI Energy Services Limited as the other entity involved in the project activity. The PP affirms that this change does not impact the methodology's applicability, additionality, or the baseline scenario of the project activities.

The verification team acknowledges the approved deviation in the meter calibration frequency, which has been clearly documented and incorporated into the project monitoring plan without impacting the methodology's applicability, additionality, or baseline scenario. Subsequent changes in the designated project proponent contact persons have been properly updated and recorded, with confirmations from the PP that these changes do not affect the project's compliance or performance. Overall, the project continues to adhere to the applicable standards and requirements, maintaining transparency and regulatory alignment throughout the verification periods.

The Verification team has examined this deviation in light of the supporting documents and the previously approved verification reports /05/ /06/ /07/ /08/ /16/. The details of deviation were verified through commissioning certificate /21/, technical specification of equipment's /22/, and declaration letter /23/ submitted to VERRA by the PP. This was further corroborated through interviews with relevant personnel during the audit conducted by the assessment team. Accordingly, the VVB has accepted this deviation.

3.3 New Project Activity Instances in Grouped Projects

The project is not grouped project hence this section is not applicable.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

RINA was able to verify all the documented evidence listed above during the validation process and can confirm that data and considerations are complete and accurate. Moreover, RINA confirms that the description of the proposed project activity, as contained in the PD /03/ sufficiently covers all relevant elements, is accurate and complete and that it provides the reader with a clear understanding of the nature of the project.

Item	Evidence gathering activities, evidence checked, and assessment conclusion:				
Audit history	Audit type	Period	Program	Validation/verification body name	Number of years
	Validation	19/March/2021 to 18/March/2023 (Including both dates) /04/	VCS	Earthood Services Private Limited	10 year 00 months 00 days
	Verification	19/March/2021 to	VCS	LGAI Technological Center, S.A	1 year, 00

		31/March/2021 /05/		(Applus+Certificatio n)	months , 13 days
	Verificatio n	01/April/2022 to 31/March/2023 /06/	VCS	VKU Certification Private Limited	1 year 00 months 00 days
	Verificatio n	01/April/2023 to 31/December/20 23 /07/	VCS	VKU Certification Private Limited	0 year 09 months 00 days
	Verificatio n	01/January/2024 to 30/June/2024 /08/	VCS	VKU Certification Private Limited	0 year, 06 months , 00 days
	Verificatio n	01/July/2024 to 31/July/2025	VCS	RINA Services S.p.A	1 year 00 months 30 days
Double counting and participation under other GHG programs	RINA team has confirmed from the VCS Monitoring Report (MR) /01/ that the Project has not been rejected by, nor is it currently registered with, any other greenhouse gas (GHG) program. This was further verified through interviews conducted with the Project Proponents during the On site verification visit, as well as through independent internet research of the GCC and Gold Standard (GS) registries and databases /18/. Additionally, the Project Proponent provided a formal undertaking dated 12/August/2025 /24/ affirming that the Project activity is not participating in, nor seeking issuance of credits from, any other GHG program.				
No double claiming with emissions trading programs or binding emission limits	Based on the information provided in the current Monitoring Report (MR) /01/ and supplementary documentation, RINA has thoroughly assessed the compliance of the Project with the section 2.1 & 03 of Verified Carbon Standard (VCS) Program Guide V4.4 /13/ related to the avoidance of double claims. The assessment confirms that the Project's reported greenhouse gas (GHG) reductions and removals, as well as the underlying project activities, are not included in any binding emission cap or trading program. This conclusion is supported by interviews conducted with the Project Proponent during the On-				

	site verification visit and independent verification through searches of relevant registries, including GCC and Gold Standard databases /18/. Additionally, the Project Proponent has provided a formal undertaking dated 12/August/2025 /24/ affirming that the Project is neither receiving nor seeking issuance of credits from any other GHG program for the reductions and removals reported under this Project. Accordingly, RINA concludes that the Project is in compliance with VCS Program Guide v4.4 /13/ regarding the prevention of double claims on emission reductions and removals.
No double claiming with other forms of environmental credit	The Project Proponent has provided a formal undertaking dated 12/August/2025 /24/ to the RINA team, explicitly declaring that the Project is not claiming, nor has it claimed, any other type of environmental credit under any other emissions trading programs or greenhouse gas mitigation schemes. This declaration was further corroborated by the assessment team during the on-site verification through interviews with the designated representative of the Project Proponent, who confirmed that no parallel claims or credit applications have been made or are ongoing. Based on the undertaking and interviews, the RINA team concludes that the Project is in full compliance with the Verified Carbon Standard (VCS) Program guide v4.4 /13/ concerning exclusivity of credit claims, and no double counting or conflicting claims have been identified.
Supply chain (scope 3) emissions double claiming	As this project Activity is a solar power project which does not involve any supply chain in the project and according to the previously submitted Validation, Verification reports, Current Monitoring report and other documents, RINA concludes that the project activities specified do not affect the emissions footprint of any product(s). Therefore, the assessment of the following items is not applicable: - Whether the project proponent(s) or authorized representative is a buyer or seller of a product whose emissions footprint is changed by the project activities. - If so, whether the project proponent(s) or authorized representative has posted a public statement on their website in accordance with the VCS Program requirements.

Sustainable development contributions	The Project activity has implemented activities that results in 3 SDG Contributions; 7.0, 8.0 and 13.0. The project contributed to the following SDGs in current monitoring report: SDG 7.2.1: A total of 613,563 MWh renewable electricity generated during the current monitoring period (01-July-2024 to 31-July-2025) has been supplied to the Indian grid. This helps to enhance the share of renewable energy in the energy mix. This has been verified from the previous periodic verification reports and the current monitoring report version 04 /01/. The electricity generation value was cross verified with the JMRs /25/, invoices /26/ and the previous approved verification reports /05-08/ /16/. SDG 8.6.1: A total of 69 employees were employed in the project in current monitoring period out of which 07 are skilled, 21 are semiskilled and 41 are unskilled. This information has been verified based on the employee records /27/ provided by the Project Proponent (PP). SDG 13.2.2: During the current monitoring period (01-July-2024 to 31-July-2025) the project has avoided release of 574,785 tCO₂e by supplying 613,563 MWh renewable electricity to Indian grid. The emission reduction values has been cross verified through the ER spreadsheet /02/ along with the electricity invoices /26/ and previous VERRA approved verification reports /05-08/ /16/. Project lifetime contribution will be added after resolution of CAR The sustainability indicators mentioned above are checked by the assessment team and found correct. Overall, the audit team concludes that the project's contributions to sustainable development, as written in the VCS MR, are accurate, complete and provide an understanding of how the project will contribute to the sustainable development goals. RINA confirms that the description of the proposed project activity, as contained in MR, sufficiently covers all relevant elements, is accurate and complete and provides the reader with a clear understanding of the nature of the project.
Additional information relevant to the project	No additional and commercially sensitive information has been omitted from this public version of the report.

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	The VVB examined the Stakeholder Analysis /41/ documentation submitted by the Project Proponent (PP) and carried out interviews with project personnel during the onsite visit. Following the review of the documents and the onsite discussions, the VVB concludes that the Project Proponent has performed a comprehensive Stakeholder Analysis in alignment with VCS requirements. The process successfully identified the key stakeholders, their interests, and the mutual impacts between the project and these stakeholders. The Stakeholder Analysis facilitates proactive engagement by identifying key groups and individuals, allowing for well-informed project planning and execution. The VVB considers the stakeholder identification and engagement process to be systematic, inclusive, and in full accordance with the VCS Standard's principles on stakeholder involvement. The stakeholders identified during the consultation process include local villagers, school-teachers, and the village sarpanch.
Legal or customary tenure/access rights	This constraint is not applicable to this project, as there are no legal or customary tenure or access rights held by stakeholders, indigenous peoples (IPs), local communities (LCs), or holders of customary rights to land and resources, including collective or competing rights. The 250 MW solar power plant requires mostly private land, with around 300 acres government owned. Land acquisition was completed before validation, with no forest land involved. A local land aggregator managed negotiations and sale deed registrations. Most landowners agreed to sell as the land was mostly barren, and farming had stopped due to erratic rainfall and declining yields. The VBB verifies these details at the time of audit by interviewing the stakeholders and PP and by reviewing the Environmental and Social Impact Assessment Report (ESIA) /29/.
Stakeholder diversity and changes over time	Based on the documentation review and interview with the stakeholders the assessment team concluded that the social, economic, and cultural diversity within stakeholder groups has

	remained stable throughout the monitoring period, with no significant changes observed in group composition that was identified during ESIA done for the project. Additionally, the ESIA report states that the project site is favorably located, with no ecologically sensitive areas—such as National Parks, Wildlife Sanctuaries, or Biosphere Reserves—within a 10 km radius. Moreover, there are no reserved or protected forests, nor any cultural heritage sites, in the immediate vicinity of the site. On the bases of the ESIA /29/ report provided by the PP the VVB therefore ensuring compliance with relevant VCS requirements regarding environmental and social safeguards related to location and stakeholder stability.
Expected changes in well-being	As per the interviews conducted during the audit and documentation reviewed, VVB has concluded that project has not any adverse effects on stakeholder well-being. The operation and maintenance staff, as well as other workers, are accommodated within the plant premises, which is expected to enhance their quality of life. Priority is given to employing qualified local villagers. The project site consists of a combination of fallow land, unculturable waste land, barren scrub, and rocky parcels, all acquired through willing buyer–willing seller agreements, ensuring that no local populations were displaced.
Location of stakeholders	The location of the stakeholders is Jaisalmer, Rajasthan as specified in MR version 04 /01/.
Location of resources	As per the review of documentation and MR, the project proponent owns all resources and territories associated with the project. Land acquired for the project is on willing buyer - willing seller basis. The land acquisition did not involve any rehabilitation or resettlement, as there were no settlements on the acquired land. Consequently, there is no direct overlap between the project area and any stakeholder territories or resources as per the Overall Plant Array Layout dated 01/August/2021 /37/. The above-mentioned details are verified from the personnel interviews with PP and the local stakeholders associated with the project

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	As part of ongoing communication with stakeholders, dedicated input and grievance registers have been placed at the administrative office and the main entrance of the plant, allowing stakeholders easy access to provide feedback on the project. Additionally, a comment and suggestion box is available at the main gate for stakeholders to share their comments and suggestions. This grievance mechanism ensures continuous engagement with stakeholders. Any concerns raised during project operations are reviewed and addressed, provided they are relevant to the project. As per current MR, PP has a validated communication plan based on which the PP has effectively communicated and consulted with stakeholders. VVB has checked grievance register /30/, records of the stakeholder consultation meeting /41/, photographs of suggestion box /32/ to verify all the information provided in the MR.
Date(s) of stakeholder consultation	The date of the stakeholder consultation for this solar project is 02-May-2019. The date of the stakeholder consultation has been verified by the RINA team by reviewing the registered PD /03/ and interviews with concerned persons of Project Proponent (PP).
Communication of monitored results	During the audit, project staff were interviewed to evaluate how effectively stakeholder communication is managed. Following a thorough review of relevant documentation and audit, the VVB confirms that the Project Proponent has established effective communication practices for sharing monitoring results with stakeholders. These include community meetings, informational materials, and facilitation of interactive workshops, ensuring that information is delivered in a timely and accessible manner. Moreover, the Project Proponent has implemented well-structured systems to support ongoing stakeholder engagement. Tools such as a grievance register and complaint box are in place, reinforcing the project's commitment to transparency and accountability. The records of the community meetings /41/, grievance register /30/, and complaint/suggestion box /32/ were checked by the VBB to verify the information provided by the PP in MR version 03.

Consultation records	The RINA team reviewed previous verification reports, the current MR version 04 /01/, and conducted interviews during the audit to verify the Project Proponent's procedures for maintaining consultation records. Based on the documentation review and interviews conducted during the audit, the assessment team concludes that the project has established a systematic process for managing stakeholder comments and grievances. Upon receiving a comment or grievance, it is acknowledged and recorded in the Grievance Register. The Grievance Redressal Officer (GRO) may take action or refer the matter to management for input or approval during the monthly management meetings. All grievances and related actions are presented at these meetings, where management may decide to further assess or investigate if necessary.
Stakeholder input	The review of consultation process demonstrates that all stakeholder feedback is carefully evaluated for technical feasibility, potential impacts, and consistency with the project's objectives. There have been no inputs received for the current monitoring period that was verified by the verification team and found the information correct which was further verified by interviewing the concerned personnels during the audit.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	The team reviewed the registered Project Description (PD) and checked for any ongoing or unresolved conflicts during the current monitoring period, assessing the project's influence on such conflicts. The process and documentation related to obtaining consent from concerned parties, including local communities, were examined from previous verification reports. Measures to ensure transparency and inclusiveness—such as meaningful dialogue, accessible information, and addressing concerns—were verified through document reviews and interviews. It is concluded that Consent from all concerned parties was obtained through a transparent, inclusive process based on consensus-building. Stakeholders were given opportunities to express views and negotiate terms, with thorough documentation ensuring understanding of the consent implications. No ongoing or unresolved

	conflicts were identified during the monitoring period, and the project activities neither exacerbated nor influenced the outcomes of any existing unresolved conflicts.
Outcome of FPIC discussion	The RINA audit team reviewed previous PD, validation and verification reports /05-08/ and conducted interview with stakeholders (section 2.3) during onsite visit for the Free, Prior, and Informed Consent (FPIC) process, verifying that a transparent agreement was established between the project proponent and all concerned parties, including local communities. During the Local Stakeholder Consultation (LSC), stakeholders were provided with comprehensive project information covering scope, potential impacts, and mitigation measures in accessible formats and local languages, prior to finalizing the agreement. The project proponent confirmed that there was no land encroachment, relocation, or forced physical or economic displacement has occurred. All project activities have been implemented in full compliance with applicable regulatory norms and the terms of the agreement, safeguarding the rights and interests of all stakeholders involved.

4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	The RINA Team reviewed the grievance management system, including an examination of the grievance registers /30/ and complaint/suggestion boxes /32/ located at the plant's administrative office and main entrance. Verification involved cross-checking the grievance register for the current monitoring period and interviewing relevant project personnel. The team confirms that the grievance registers /30/ and complaint/suggestion boxes /32/ are properly maintained and accessible to stakeholders at designated locations. No grievances were recorded during the current monitoring period, as confirmed by the grievance register provided by the Project Proponent. When grievances do arise, they are directed to the designated Grievance Redressal Officer, who evaluates their validity. Valid grievances within the officer's authority are handled directly, while

	those outside their jurisdiction are escalated to the head office for further action. This process ensures timely and effective resolution of stakeholder concerns in line with project protocols.
Grievance redress procedure	On the basis of the site audit and interviews conducted with the PP and the concerned personnels, it has been confirmed that the Project Proponent (PP) maintains a grievance register to address issues and comments. A complaint/suggestion box /32/ is placed at the project site for stakeholders to submit their feedback/comments, or suggestions. The grievance register is kept both at the administrative office within the plant and at the plant's main entrance, ensuring these are accessible and convenient locations for local stakeholders to provide their input on the project. The details were verified by cross-checking the grievance register records for the current monitoring period, as well as interviews with key project personnel.

4.2.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
No comments were received outside of the public comment period and also during the current monitoring period.	Since there were no comments received during the current monitoring period and outside of the public comment period, no actions were taken and there are no updates to project design. As a part of continuous feedback from stakeholders, PP is maintaining a grievance register and a complaint/suggestion box for feedback collection, ensuring effective	The review of records, grievance registers, complaint/suggestion box confirmed that no comments were received outside the public comment period or during the current monitoring period. /16/

During the Local Stakeholder Consultation at the time of validation the villagers raised questions about the project's benefits, employment opportunities, land fertility, and future plans. They were assured of local employment, no impact on land fertility, and promised economic development contributing to improved infrastructure and facilities in the area.	communication and resolution of concerns. There were no other major comments or protests raised by the stakeholders till now. The local stakeholders were totally in support of setting up of the project in the region.	
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4.2.6 Risks to Local Stakeholders and the Environment

4.2.6.1 Management Experience

Evidence gathering activities included are the site audit and interview. During the assessment the RINA team cross-checked the O&M agreement /33/, conducted interviews with the concerned personnels. Based on evidence checked the assessment team has verified that the project management teams are well equipped with extensive expertise and experience in implementing similar project activities and engaging communities effectively.

The management team possesses substantial expertise and experience in implementing renewable energy initiatives, particularly within the solar sector. They have successfully executed multiple solar projects, demonstrating strong capabilities in project design, community engagement, and overall implementation.

4.2.6.2 Risk Assessment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Natural and human induced risks to stakeholders' wellbeing	The VVB has checked the ESIA report /29/, grievance register /30/ and done interviews during the audit and based on the review of documents and interview, it was confirmed that no natural or human-induced risks to stakeholders' well-being were foreseen during the current monitoring period, and the project is not anticipated to cause any adverse effects on stakeholders.

Risks to stakeholder participation	During the audit, the verification team identified no risks associated with the project. Meaningful consultations with affected local communities, particularly project-affected persons, were conducted thoroughly. The Project Proponent ensures open dialogue, includes women in consultations, and addresses all environmental and social impact along with the associated mitigation measures to local stakeholders, ensuring they have direct understanding and firsthand knowledge. Furthermore, a grievance/input register is actively maintained and regularly updated at the project site entrance. Stakeholders are encouraged to submit feedback or raise concerns, which are promptly addressed to ensure continuous resolution and transparency. Consequently, the VVB confirms that stakeholder participation remains risk-free, with strong transparency, inclusivity, and engagement maintained.
Working conditions	The project activity poses no risk to the safety of women and girls. VVB has reviewed the training records /34/ for current monitoring period, sustainability policy /35/, ESIA report /29/, employment contracts, wage records /27/, and also conducted interviews with the employees and the PP. Based on review of documentation it was confirm that the Project Proponent (PP) has maintained exemplary working conditions by implementing strong safety protocols, training programs, and providing proper protective equipment to ensure employee health and safety. The PP also adheres to fair employment practices and international labor standards, offering fair wages, job security, and skill development opportunities. These efforts not only protect the workforce but also support the region's socio-economic growth, demonstrating the PP's commitment to a safe, fair, and sustainable work environment.
Safety of women and girls	During the audit VVB has checked and reviewed the evidence like employment records /27/ highlighting the participation of women and girls, workplace safety assessments and incident reports /36/, health and safety protocols /36/ of the project followed at site. Based on the evidence reviewed, it is confirmed that the project activity poses no risk to the safety of women and girls. The Project Proponent has effectively mitigated potential risks by maintaining stringent safety protocols and complying with relevant Indian regulations, including The Factories Act, 1948, and the Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013 /40/. Comprehensive training programs and a culture of respect and equality further contribute to a safe and inclusive work environment. This conclusion was

	corroborated through interviews with the designated representative of the Project Proponent.
Safety of minority and marginalized groups, including children	Based on interviews with the relevant representative of the Project Proponent, the verification team confirms that no risks were identified concerning the safety of minority and marginalized groups, including children, during the monitoring period. The Project Proponent strictly adheres to the Child Labor (Prohibition and Regulation) Act, 1986 /40/, which prohibits the employment of children. Furthermore, the PP is committed to being an equal opportunity employer and ensures a non-discriminatory work environment. No form of discrimination based on race, religion, political opinion, gender, age, national origin, sexual orientation, marital status, or disability is tolerated. All forms of harassment are strictly prohibited, and the PP has protocols in place to address and eliminate such issues immediately. The organization actively values diversity, viewing it as a strength and a competitive advantage.
Pollutants (air, noise, discharges to water, generation and release of hazardous materials and chemical pesticides and fertilizers)	The project activity is a renewable energy initiative (solar power), which inherently does not produce air or noise pollution. On the contrary, it contributes to the reduction of air pollution commonly associated with fossil fuel-based power generation, thereby supporting environmental sustainability objectives. The verification team confirms that no hazardous materials are used at the project site. The Project Proponent (PP) has procedures in place to ensure that, in the rare event that minor waste such as pieces of wire is generated, it is collected and securely stored in a designated, closed facility. Once a sufficient quantity of waste has been accumulated, a licensed third-party waste handler is contracted for proper and compliant disposal. Furthermore, the PP has committed to ensuring all waste is handled in accordance with local environmental regulations. This mechanism ensures the project remains in compliance with applicable laws and environmental standards and poses no threat to the surrounding environment during the current monitoring period.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination	As PP following the company policy /35//36/ for No discrimination strictly. During the project's monitoring period, no instances of discrimination were reported or happened. This was confirmed by interview with the concerned person during the audit.
Sexual harassment	As per the information mentioned in MR version 03, PP is following the company policy, Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 and chapter IV, article 19 "Duties of Employer" clause (a) strictly /40/. During the project's monitoring period, no instances of sexual harassment were reported or happened. This was confirmed by interview with the staff during the audit and the review of the Fortum policies. Furthermore, Company provides regular training to ensure prompt and effective prevention and resolution of such issues.
Gender equity in labor and work	RINA assessment team reviewed Fortum policies regarding the gender equality in labor and work and has done the interview with the concerned personnels during the audit. In line with company policy 35//36/, applicable labor laws, and specifically Chapter II, Article 4, Clause (1) of the Equal Remuneration Act, 1976 /40/, the Project Proponent (PP) is committed to ensuring equal employment opportunities irrespective of gender, including equal pay for equal work. This commitment is upheld through transparent hiring practices, non-discriminatory policies, and regular pay scale reviews to identify and address any potential inequalities. During the current monitoring period, no instances of discrimination or wage disparities were reported or discovered within the project. Additionally, the PP actively fosters gender inclusivity by conducting ongoing training programs aimed at increasing awareness and reducing unconscious biases among workforces.
Forced labor	During the verification the RINA team has interviewed the key project personnels and following interviews with key project personnel and a thorough review of project policies, the verification team confirms that the project does not involve forced labor.

	The project complies with the Bonded Labour System (Abolition) Act, 1976 /40/. The Project Proponent implements strict ethical sourcing policies, including comprehensive vetting and due diligence of all suppliers and contractors. Regular audits and inspections are conducted to confirm that no cases of human trafficking, forced labor, or child labor exist within the project's supply chain or workforce. These practices ensure full adherence to relevant labor laws and internationally accepted human rights standards. As a result, no forced labor risks have been identified within the scope of project activities.
Child labor	During the audit the RINA team has checked the regular audits procedure and interviewed the key personnels. Based on the audit conducted and documentation review it is concluded that the project fully complies with relevant labor legislation, including the Bonded Labour System (Abolition) Act, 1976, the Child Labour (Prohibition and Regulation) Act, 1986, and the Factories Act, 1948 /40/. These legal frameworks ensure the protection of workers' rights and prohibit practices such as bonded labor and child labor within the project activities. Hence no risk is identified during the current monitoring period. Regular audits and inspections /37/ are conducted by the PP to confirm that no cases of human trafficking, forced labor, or child labor exist within the project's supply chain or workforce.
Human trafficking	On the basis of the interviews during the audit, it is confirm by the RINA team that the project enforces strict ethical sourcing policies, including thorough vetting of suppliers and contractors, to ensure compliance with labor laws and human rights standards. The project complies with the Factories Act, 1948 /40/. Regular audits and inspections are conducted to verify that no instances of human trafficking, forced labor, or child labor occur within the project's supply chain or workforce.

4.2.7.2 Human Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
No risk identified	Based on the review of previously submitted documents, the current monitoring report, and interviews with stakeholders, the RINA team found no violations of human rights during the installation and operation of the project activities. Although no Indigenous Peoples (IPs), Local Communities (LCs), or customary rights holders have been

	identified within the project area, the Project Proponent (PP) remains fully committed to recognizing, respecting, and promoting human rights throughout the project lifecycle. The PP actively engages with stakeholders through continuous communication, encouraging their feedback and input. Robust grievance redressal mechanisms are in place, including a comment and feedback box, to facilitate transparent and accessible communication channels for addressing concerns. By implementing these measures, the project aligns with relevant international human rights frameworks, including the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) and the International Labour Organization (ILO) Convention 169 on Indigenous and Tribal Peoples /40/. This demonstrates the project's commitment to safeguarding the rights and welfare of IPs, LCs, and customary rights holders, where applicable.
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4.2.7.3 Indigenous Peoples and Cultural Heritage

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
No risk identified	During the audit and interviews, it was confirmed that the implementation of this project activity did not impact any Indigenous Peoples or disturb cultural heritage sites. Additionally, no cultural heritage or conservation areas were identified within or in proximity to the project boundaries. Despite the absence of any direct impacts, the Project Proponent maintains a strong commitment to safeguarding cultural heritage as part of its broader environmental and social responsibility framework. To support this, proactive measures are in place, including thorough cultural heritage assessments during planning, strict protocols to minimize disturbances, and collaboration with local communities. This approach ensures that any future interactions with cultural or heritage sites will be managed in full compliance with applicable laws and best practices, reinforcing the project's dedication to responsible and sustainable development

4.2.7.4 Property Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
No risk identified	During the audit, the RINA team observed that ongoing measures to protect property rights are effectively implemented during the validation assessment /04/. These include upholding agreements made prior to land acquisition, respecting customary rights, and ensuring transparent and equitable compensation processes. Additionally, regular stakeholder consultations and grievance mechanisms are maintained to promptly address any concerns that may arise.

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	Fortum India Private Limited is the project proponent of this project activity and all the environmental rights are exclusive to the PP. Therefore, this section is not applicable.
Benefit sharing during the monitoring period	Not Applicable

4.2.8 Ecosystem Health.

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	No risk has identified during the current monitoring period as solar power projects are generally recognized as environmentally benign, with minimal impact on surrounding ecosystems.
Soil degradation and soil erosion	No risk has identified during the current monitoring period as solar power projects typically employ land management practices that minimize soil disturbance, ensuring soil health and stability are preserved

Water consumption and stress	No risk has identified as solar power plant installations generally have minimal water requirements, reducing strain on local water resources and ecosystems ESIA report /29/ has been provided by the PP to verify that no risk has been identified for ecosystem health by the implementation of this project.
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4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	The 250 MW solar power project is located in Jaisalmer, Rajasthan, where no rare, threatened, or endangered species are present. As per the ESIA report, /29/ project has not adversely impacted habitats for rare, threatened, or endangered species, hence not applicable.
Areas needed for habitat connectivity	Not Applicable

	Evidence gathering activities, evidence checked, and assessment conclusion
Habitats for rare, threatened, and endangered species	The project is not situated within habitats of rare, threatened, or endangered species, nor does it have any negative impact on such areas. The Project is located at Jaisalmer, Rajasthan and there are no rare, endangered and threatened species found in the region /29/.
Areas for habitat connectivity	The Project is located at Jaisalmer, Rajasthan and there are no rare, endangered, or threatened species have been identified within the region.

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
Not applicable	Not applicable

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
Not applicable	Not applicable

Evidence gathering activities, evidence checked, and assessment conclusion	
Invasive species	Not applicable

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	No ecosystem was converted since the project involve the solar power that has been commissioned on barren land. Hence no risk was identified during current monitoring period/29//37/.

4.3 Accuracy of Reduction and Removal Calculations

During the verification of the project activity, the calculations of the emission reductions are found to be correct. The details of the reported and the verified values for all parameters are listed in section 4.4 of this report.

The PP has provided the complete set of data for all the monitored parameters in the ER spread sheet /02/. This data has been verified as described in section 4.4 below. The method used to compute the baseline emissions, project emissions and leakage are appropriate and consistent with the approved methodology ACM0002, version 19.0 'Grid-connected electricity generation from renewable sources' /09/.

Data and Parameters Available at Validation

Data / Parameter	EF _{grid,OM,y}
Data unit	tCO ₂ /MWh
Description	Operating Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 14.0, December -2018
Value applied	0.9610(Indian Grid)
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per "Tool to calculate the emission factor for an electricity system, version 07.0" as 3-year generation weighted average using data for the years 2015-16, 2016-17 & 2017-18. The data are obtained from "CO ₂ Baseline Database for Indian Power Sector" version 14.0, published by the Central Electricity Authority, Ministry of Power, Government of India

Purpose of Data	For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data / Parameter	$EF_{grid,BM,y}$
Data unit	tCO ₂ /MWh
Description	Build Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA Database, Version 14, December -2018
Value applied	0.8644 (Indian Grid)
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 07.0” as 3-year generation weighted average using data for the years 2017-18. The data are obtained from “CO ₂ Baseline Database for Indian Power Sector” version 14.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data / Parameter	$EF_{grid,CM,y}$
Data unit	tCO ₂ /MWh
Description	Combined Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA Database, Version 14, December -2018
Value applied	0.9368 (Indian Grid)
Justification of choice of data or description of measurement methods and procedures applied	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$ Where: $EF_{grid,BM,y}$ = Build margin CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,CM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM} = Weighting of build margin emissions factor (%) = 25% Calculated as per “Tool to calculate the emission factor for an electricity system, version 07.0.0” /11/. The data is obtained from “CO₂ Baseline Database for Indian Power Sector” Version 14, December 2018 /19/, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data and Parameters Monitored

Data / Parameter	EG _{facility,y}
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid in year y
Source of data	JMR
Description of measurement methods and procedures to be applied	The value of net electricity generation supplied to the grid as per the Joint Meter Reading Report forms the basis for calculation of the emission reductions, which can be cross checked from the invoice raised. Net electricity supplied to grid will be calculated as the difference of the measured values of “export” and “import” of electricity through the dedicated SEB energy meter installed at the delivery point. Monthly meter readings are taken from the main and check meter installed at metering point and certified by the representatives of SEB Officials and the representatives of the project proponent. Monitoring: Bidirectional Tri vector meter will be used Data type: Measured Type of meter: Static type meter (Main & Check). Both are Bidirectional meters. Class of meter: 0.2s. Calibration frequency: Once in five years. More details about energy meter provided in appendix 1.
Frequency of monitoring/recording	Continuous measurement and at least monthly recording
Value monitored	613,563 MWh
Monitoring equipment	Electricity Meters of 0.2s Class
QA/QC procedures to be applied	Calibration of all the meters is undertaken at required intervals (Once in 5 years) and faulty meters is duly replaced immediately. The data is cross checked with sales receipts/invoices. Kindly refer Appendix I for calibration meter details.

Purpose of the data	Calculation of Baseline emission
Calculation method	Not Applicable
Comments	The data will be archived electronically for two years after the end of the last crediting period or the last issuance of VCUs for this project activity, whichever occurs later

4.4 Quality of Evidence to Determine Reductions and Removals

Baseline Emissions

As per the various baseline scenarios identified in approved methodology ACM0002 version 19/09/, the emission reductions have been identified using the following steps:

Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants. The baseline emissions are to be calculated as follows:

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

Where:

BE_y	=	Baseline emissions in year y (tCO ₂ e/yr)
$EG_{PJ,y}$	=	Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)
$EF_{grid,CM,y}$	=	Combined margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of "TOOL07: Tool to calculate the emission factor for an electricity system" (t CO ₂ /MWh)

$$\begin{aligned}
 BE_y &= 613,563 \text{ MWh} * 0.9368 \text{ tCO}_2/\text{MWh} \\
 &= 574,786 \text{ tCO}_2
 \end{aligned}$$

Project Emissions

The project activity involves harnessing of solar energy and its conversion to electricity. Hence, according to the methodology ACM0002, Version 19.0, there will be no project emissions, i.e. $PE_y = 0$.

Leakage emissions

As per the methodology ACM0002, Version 19.0, no leakage has been considered, therefore, $LE_y = 0$.

GHG Emission Reductions and Carbon Dioxide Removals

As per para 61 of ACM0002 version 19.0; Emission Reductions are calculated as follows:

$$ER_y = BE_y - PE_y - LE_y$$

Where:

ER_y = Emission reductions in year y (t CO₂e/yr)

BE_y = Baseline emissions in year y (t CO₂/yr)

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

LE_y = Leakage emissions in tCO₂/year

Therefore, Net GHG Emission Reductions and Removals are calculated as follows:

$$ER_y = 574,786 - 0 - 0$$

$$ER_y = 574,786 \text{ tCO}_2$$

4.5 Non-Permanence Risk Analysis

This Section is applicable to this project activity.

5 VERIFICATION OPINION

5.1 Verification Summary

RINA Services S.p.A has been engaged by Fortum India Private Limited to perform the verification of the VCS project activity 'Greenfield Solar Power Mission by Fortum India, ID number 2069. The monitoring period of the project activity is 01-July-2024 to 31-July-2025 (Inclusive of both days)'. The prepared estimated GHG emission reduction data and the Monitoring report were set out in the basis of the approved methodology 'ACM0002- Grid-connected electricity generation from renewable sources', version 19.0, sectoral scope 01- Energy industries (renewable/non-renewable sources).

Our Verification approach was based on the standards set by the VCS and CDM executive boards. Our approach is risk-based, depending on an awareness of the risks associated with projected GHG emissions data and the controls in place to reduce them. The verification can confirm that:

- The Monitoring Report is in compliance with all the requirements and criteria set in the VCS Standard 4.7.
- The project's baseline and additionality and monitoring plan are assessed against methodology ACM0002 version 19.0
- A risk-based approach has been followed to perform the verification activity. The review of the Monitoring Report and additional supporting documents related to the baseline and monitoring methodology on-site interview has provided sufficient evidence for positive verification opinion as per the requirements of VCS.

5.2 Verification Conclusion

Verification period: From 01-July-2024 to 31-July-2025

Verified GHG emission reductions and carbon dioxide removals in the above verification period:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCUs (tCO ₂ e)	Removal VCUs (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-July-2024 to 31-Dec 2024	254,039	0	0	254,039	254,039	254,039
01-Jan-2025 to 31-July-2025	320,747	0	0	320,747	320,747	320,747
Total	574,786	0	0	574,786	574,786	574,786

5.3 Ex-ante vs Ex-post ERR Comparisons

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-July-2024 to 31-Dec 2024	208,033	254,039	22.12%	The ex-post monitored electricity generation is higher than the ex-ante estimate. This variance is attributable to natural climatic variability within reasonable limits,
01-Jan-2025 to 31-July-2025	239,690	320,747	33.82%	

Total	447,723	574,786	28.38%	including higher-than-assumed solar irradiation levels at the project site in Jaisalmer, which increased the availability of incident solar energy on the PV modules. Additionally, ambient temperatures were lower than those considered in the ex-ante assumptions, improving PV module efficiency by reducing thermal losses. Favorable atmospheric conditions, including low dust and particulate matter, further reduced losses due to atmospheric attenuation. The project also experienced minimal shading and stable operational conditions, allowing the PV system to operate close to its optimal performance. The VVB considers the observed variance to be reasonable, adequately justified, the values are comparable to the previous monitoring period /05-08/ and consistent with the approved methodology and monitoring plan.
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APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

No commercially sensitive information has been excluded from the public version of the project description. Hence, appendix 1 is not applicable.

APPENDIX II: <LIST OF DOCUMENTS>

Document No.	Title	Source
/01/	Monitoring report for “Greenfield Solar Power Mission by Fortum India”, version 01 of 04-September-2025 Monitoring report for “Greenfield Solar Power Mission by Fortum India”, version 02 of 27-November-2025 Monitoring report for “Greenfield Solar Power Mission by Fortum India”, version 03 of 03-December-2025 Monitoring report for “Greenfield Solar Power Mission by Fortum India”, version 04 of 01-April-2026	PP
/02/	Emission Reduction calculation Spreadsheet.xlsx for “Greenfield Solar Power Mission by Fortum India”, version 01 of 04-September-2025 Emission Reduction calculation Spreadsheet.xlsx for “Greenfield Solar Power Mission by Fortum India”, version 02 of 27-November-2025 Emission Reduction calculation Spreadsheet.xlsx for “Greenfield Solar Power Mission by Fortum India”, version 03 of 03-December-2025 Emission Reduction calculation Spreadsheet.xlsx for “Greenfield Solar Power Mission by Fortum India”, version 01 of 01-April-2026	PP
/03/	Project Description Document for “Greenfield Solar Power Mission by Fortum India”, version 02 dated 19-December-2019	VERRA
/04/	Validation report for “Greenfield Solar Power Mission by Fortum India”, Version 01, dated 30-December-2019	VERRA
/05/	First verification report for “Greenfield Solar Power Mission by Fortum India”, version 05 of 16-December-2022	VERRA
/06/	Second verification report for “Greenfield Solar Power Mission by Fortum India”, version 2.1 of 06-July-2023	VERRA
/07/	Third verification report for “Greenfield Solar Power Mission by Fortum India”, version 01 dated 14-May-2024	VERRA
/08/	Forth verification report for “Greenfield Solar Power Mission by Fortum India”, version 03 of 28-January-2024	VERRA

/09/	Monitoring methodology “ACM0002” Grid-connected electricity generation from renewable sources”, Version 19 of 31 August 2018	CDM
/10/	Methodological Tool 01 “Tool for the demonstration and assessment of additionality”, version 07.0 of 23-November-2012	CDM
/11/	Methodological Tool 07 “Tool to calculate the emission factor for an electricity system”, version 07.0 of 31-August-2018	CDM
/12/	VCS standard version 4.7 dated 16 April 2024	VERRA
/13/	VCS program guide version 4.4 dated 29 August 2023	VERRA
/14/	VCS Program Definitions version 4.4, dated 29 August 2023	VERRA
/15/	VCS Registration & Issuance Process, VCS Version 4.4 of 04-October-2023	VERRA
/16/	VERRA registry: https://registry.verra.org/app/projectDetail/VCS/2069 Last visited: 15/09/2025	VERRA
/17/	Public Comments Link: https://registry.verra.org/app/projectDetail/VCS/2069 Last visited: 15/09/2025	VERRA
/18/	Other Registry: GS: https://registry.goldstandard.org/projects?q=&page=1 GCC: https://globalcarboncouncil.com/how-gcc-works/carbon-registry/ CDM: https://cdm.unfccc.int/ Last visited: 15/09/2025	ONLINE
/19/	CEA (Central Electricity Authority) Guidelines version 14.0 https://cea.nic.in/wp-content/uploads/baseline/2020/07/user_guide_ver14.pdf Last visited: 15/09/2025	ONLINE
/20/	Google Earth: (Untitled project - Google Earth) Last visited: 05/09/2025	ONLINE
/21/	Commissioning Certificate by Solar Energy Corporation of India Ltd.: 150 MW dated 19-03-2021 of ref. no.: SECI/SD/NSM/Raj-T1/FSPPL/Comm/2020-21/42151	PP

	Commissioning Certificate by Rajasthan Renewable Energy Corporation Ltd.: 100 MW dated 12/05/2021 of ref. no. F.12 (1193) RREC/Solar/750 TRenche-I/Fortum Solar/19-20/D/412	
/22/	Technical specification of equipment's (Brochure) 1. Suntech – Mono Facial (Polycrystalline) & 2. Jinko – Bifacial (Monocrystalline)	PP
/23/	Letter of Name change Intimation: Ministry of Corporate Affairs bearing CIN No. U40300DL2018FTC327949 dated 14/June/2022	PP
/24/	Undertaking for No Double Counting dated 12/08/2025	PP
/25/	Monthly JMRs issued by RRVNL for the current verification period – 01/July/2024 to31/July/2025	PP
/26/	Invoice issued by PP to SECI (Solar Energy Corporation of India Ltd.) for the current verification period – 01/July/2024 to31/July/2025	PP
/27/	Employment Record: 01-July-2024 to 31-July-2025 Employee attendance sheet: 01-July-2024 to 31-July-2025	PP
/28/	Monitoring Template version 4.4 dated 16/April/2024	VERRA
/29/	Environmental and Social Impact Assessment Report (ESIA) submitted by R.S. Envirolink Technologies Pvt. Ltd. Dated - September/2020	PP
/30/	Copy of Grievance Register: 01-July-2024 to 31-july-2025	PP
/31/	Breakdown details: 01-July-2024 to 31-july-2025 (Appendix: VI)	PP
/32/	Photographs of suggestion box	PP
/33/	O&M Agreement for current monitoring period bearing Ref. No.: FSPPL/2019-20/34C:00 – between Fortum, Solar Plus Pvt. Ltd. And Belectric Photovoltaic India Pvt. Ltd. Letter of Name change Intimation: From Belectric Photovoltaic India Pvt. Ltd. To RWE Solar India Pvt. Ltd. Dated 09/June/2022 beaing ref. no. RWE/MUM/BD/JUNE/2022/002.	PP
/34/	Training records: 01-July-2024 to 31-July-2025 (Appendix: V)	PP
/35/	Fortum Sustainability policy – Approved by Board Of directors on 06/February/2024 and Valid from 06/February/2024.	PP

/36/	Fortum People Policy – Approved by Board Of directors on 05/February/2020 and Valid from 05/February/2020. Operational Policy dated 20/April/2018 approved by Vice President EHS – 3024 M8 – General EHS Requirements dated 15/December/2020	PP
/37/	Overall Plant Array Layout dated 01/August/2021 prepared by AMD.	PP
/38/	Meter Calibration Certificate by Darsh Calibration Pvt. Ltd. (Appendix: IV) RJB99499 – Certificate No.- DCPL/CAL/22-23/364 dated 05/March/2022 RJB99500 – Certificate No.- DCPL/CAL/22-23/365 dated 05/March/2022 RJB99501 – Certificate No.- DCPL/CAL/22-23/369 dated 05/March/2022	PP
/39/	Power Purchase Agreement between Fortum solar plus Private Limited and Solar Energy Corporation of India dated 3-June-2019 bearing certificate no. IN-DL9648222432105R.	PP
/40/	Legal Requirements followed during the project activity: • The Factories Act, 1948 (https://labour.gov.in/sites/default/files/factories_act_1948.pdf) • Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013 (DoE_Prevention_sexual_harassment.pdf) • Child Labor (Prohibition and Regulation) Act, 1986 (THE CHILD LABOUR (PROHIBITION AND REGULATION) ACT, 1986) • chapter IV, article 19 “Duties of Employer” clause (a) (POSH_Act_2013.pdf) • Chapter II, Article 4, Clause (1) of the Equal Remuneration Act, 1976 (EQUAL REMUNERATION ACT, 1976) • Labour System (Abolition) Act, 1976 (THE BONDED LABOUR SYSTEM (ABOLITION) ACT, 1976) • United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) and the International Labour Organization (ILO) Convention 169 (UNDRIP_E_web.pdf)	OTHER
/41/	• Stakeholder Analysis Report • Records of the stakeholder consultation meeting	

APPENDIX III: <CORRECTIVE ACTION REQUEST, CLARIFICATION REQUEST, FORWARD ACTION REQUEST (CAR/CL/FAR)>

Table 1.Remaining FAR from validation and/or previous Validation and Verification

FAR ID	00	Section no.		Date : xx/xx/xxxx
Description of FAR				
Not Applicable				
Project participant response				Date: xx/xx/xxxx
Not Applicable				
Documentation provided by project participant				
Not Applicable				
VVB assessment				Date: xx/xx/xxxx
Not Applicable				

Table 2.CAR from this Verification

CAR ID	01	Section no.	1.1	Date : 29/09/2025
Description of CAR				
PP is requested to add the net electricity generation for current monitoring period.				
Project participant response				Date: 15/10/2025
The net electricity generation for the current monitoring period has been added in Section 1.1.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 21/11/2025
PP has added the net electricity generation for current monitoring period. Hence the CAR is closed.				

CAR ID	02	Section no.	1.2	Date : 29/09/2025
Description of CAR				
PP is requested to review the details provided in the Audit History table for the total time period covered (verification) and make necessary revisions as required.				
Project participant response				Date: 15/10/2025
The details in the Audit History table have been updated.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 20/11/2025
PP is requested to recheck Audit History table for the total time period covered (5 th verification) and make necessary revisions as required. Hence the CAR is still open.				
Project participant response				Date: 25/11/2025
The Audit History table is updated as per the period covered under the 5th verification.				
VVB assessment				Date: 01/12/2025
PP has updated the information and has submitted the same. VVB has crosschecked it in the updated MR. hence the CAR is closed.				

CAR ID	03	Section no.	MR	Date : 29/09/2025
Description of CAR				
PP is requested to review the entire MR for the project type, as it currently includes details for both solar and wind projects. Since PD has specified that the project is solar, please update the MR to reflect this accurately.				
Project participant response				Date: 15/10/2025
MR has been revised and corrected from wind to solar.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 20/11/2025

PP is requested to review the entire MR again for the project type, as it currently includes details for WTG's etc in the project. Hence the CAR is still open.	
Project participant response	Date: 28/11/2025
The MR has been updated and WTG details have been removed to reflect the correct project type.	
VVB assessment	Date: 01/12/2025
PP has updated the information and has submitted the same. VVB has crosschecked it in the updated MR. hence the CAR is closed.	

CAR ID	04	Section no.	1.12	Date : 29/09/2025
Description of CAR				
PP is requested to review the details provided in the Table: Sustainable Development Contributions for contributions over the project lifetime and make any necessary revisions.				
Also requested to check the number of employees mentioned in this section.				
Project participant response				Date: 15/10/2025
Sustainable Development Contributions table and employee numbers has been updated.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 20/11/2025
PP is requested to review the details provided in the Table: Sustainable Development Contributions for contributions over the project lifetime (7.2) and make any necessary revisions. Hence the CAR is still open.				
Project participant response				Date: 03/12/2025
The table on Sustainable Development Contributions (7.2) has been updated as required for the project lifetime (7.2).				
VVB assessment				Date: 05/12/2025
PP has reviewed the details provided in the Table: Sustainable Development Contributions for contributions over the project lifetime (7.2) and found it correct. Hence the CAR is closed.				

CAR ID	05	Section no.	5.4	Date : 29/09/2025
Description of CAR				
PP is requested to cross check the details provided and revise this section.				
Project participant response				Date: 15/10/2025
The Vintage value have been corrected in Section 5.4 of the revised MR.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 20/11/2025
PP has revised the vintage value as per the previous reports. VVB has cross verified the information and found it satisfactory. Hence the CAR is closed.				

CAR ID	06	Section no.	5.4	Date : 29/09/2025
Description of CAR				
Please cross-check the figures presented in the table for ex-ante, reconcile the values, and kindly make the necessary corrections to the table.				
Project participant response				Date: 15/10/2025
The ex-ante table and figures have been corrected in Section 5.4 of the MR.				
Documentation provided by project participant				
VVB assessment				Date: 20/11/2025
PP has revised the figures as per the previous reports. VVB has cross verified the information and found it satisfactory. Hence the CAR is closed.				

CAR ID	07	Section no.	4.3	Date : 29/09/2025
Description of CAR				
During the audit it was observed the new organization has taken over for the daily operations and maintenance of the power plant. PP is requested to check and revise the information and provide the evidence accordingly.				

Project participant response	Date: 15/10/2025
PP has submitted the daily operations and maintenance document as evidence for your reference.	
Documentation provided by project participant	
VVB assessment	Date: 21/11/2025
PP has revised the detail/information and provided the updated MR. Additionally, PP has submitted the evidence against the query raised and same has been verified by VVB. Hence the CAR is closed.	

CAR ID	08	Section no.	2.1.4	Date : 29/09/2025
Description of CAR				
During the audit it was observed that there is only one grievance register in the administrative office. PP is requested to justify and correct the information accordingly.				
Project participant response				Date: 15/10/2025
During the audit, the grievance register was kept in the office, though it is normally maintained at the site main gate.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 21/11/2025
PP is requested to rephrase the statement included in the MR “The grievance register is located at the administrative office at the plant and also at the Entrance (Main Gate) of the plant.”. Hence the CAR is still open.				
Project participant response				Date: 03/12/2025
The MR report has been updated and included the revised grievance register details.				
VVB assessment				Date: 05/12/2025
PP has rephrased the statement and provided the updated MR. Hence the CAR is closed				

CAR ID	09	Section no.	2.2.2	Date : 29/09/2025
Description of CAR				

PP to review and check the use of name Verdant Renewables Private Limited in Safety of Women and Girls column. As during the audit, the Sprng employee doesn't recognize this organization as a part of their project.	
Project participant response	Date: 15/10/2025
The organization name has been corrected in Section 2.2 Risk Assessment in the revised MR.	
Documentation provided by project participant	
Revised MR	
VVB assessment	Date: xx/xx/xxxx
The organization name has been corrected in section 2.2 and same has been verified by VVB. Hence the CAR is closed.	

CAR ID	10	Section no.	MR	Date : 29/09/2025
Description of CAR				
PP is requested to provide the details of the land acquired by the plant and document for the lease land under the ownership of government.				
Project participant response				Date: 15/10/2025
Ownership documents for the government-leased land have been submitted.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 21/11/2025
PP is requested to resubmit the Ownership documents for the government leased as the folder is empty in the shared evidence. Hence the CAR is open.				
Project participant response				Date: 03/12/2025
The required ownership documents have been uploaded in the shared folder.				
VVB assessment				Date: 05/12/2025
PP has provided the required document. VVB has gone through the document and found satisfactory. Hence the CAR is closed.				

CAR ID	11	Section no.	Apex. 2	Date : 29/09/2025
Description of CAR				
During the audit it was observed that the meter no. specified in this section doesn't match with the meter on the site. PP is requested to review and correct the information and also provide the calibration details for the same.				
Project participant response				Date: 15/09/2025
The calibration documents has been submitted as an evidence document for current verification.				
Documentation provided by project participant				
VVB assessment				Date: 21/11/2025
During the audit, it was noted that the meter number recorded in this section does not correspond to the meter installed at the site. The Project Proponent (PP) is requested to review the discrepancy, update the information accordingly, and provide the calibration records for the correct meter.				
Based on the calibration certificate provided, the calibration due date was 28/02/2023 and also the meter photographs provided are of old ones. Additionally, the certificate states that calibration is required annually as per the customer's requirement. Hence the CAR is still open.				
Project participant response				Date: 03/12/2025
The meter details, calibration records, and photographs have been updated in the MR, and the required corrections have also been made in Appendix 2.				
VVB assessment				Date: 05/12/2025
Meter details and calibration certificate has been provided along with photographs of the meters. Also required corrections have been done. Hence the CAR is closed.				

CAR ID	12	Section no.	MR	Date : 29/09/2025
Description of CAR				
PP is requested to check and correct the formatting of the text and table throughout the MR.				
Project participant response				Date: 15/10/2025
The formatting of the text and table has been updated.				
Documentation provided by project participant				
Revised MR				

VVB assessment	Date: 20/11/2025
PP has corrected the formatting of the text and the tables. Hence the CAR is closed.	

CAR ID	13	Section no.	3.1 & 4.3	Date : 29/09/2025
Description of CAR				
PP is requested to check and correct as in these section “Error! Reference source not found” statement is found.				
Project participant response				Date: 15/10/2025
The “Error! Reference source not found” statements have been corrected.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 20/11/2025
PP has removed and corrected the statements, same has been verified by the VVB. Hence the CAR is closed.				

CAR ID	14	Section no.	MR	Date : 29/09/2025
Description of CAR				
PP is requested to provide the page number and also check and revise the grammatical mistakes throughout the MR.				
Project participant response				Date: 15/10/2025
The page number corrected on revised MR.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 20/11/2025
PP has added the Number pages throughout the MR. Hence the CAR is closed.				

CAR ID	15	Section no.	1.1	Date : 21/11/2025
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Description of CAR	
PP is requested to check and revise the estimated emission reduction and removals as per the previous reports and current ER mission sheet.	
Project participant response	Date: 25/11/2025
The estimates value has been revised and updated in Table 1.1.	
Documentation provided by project participant	
Revised MR	
VVB assessment	Date: 05/12/2025
PP has revised the information and same has been verified by the VVB in the Updated MR. Hence the CAR is closed.	

CAR ID	16	Section no.	1.8	Date : 21/11/2025
Description of CAR				
PP is requested to check and rephrase or revise the information provided in the MR.				
Project participant response				Date: 25/11/2025
The information has been corrected in revised MR.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 03/12/2025
PP has revised the information and provided the updated MR.VVB has cross checked the updated information and found it correct. Hence the CAR is closed.				

CAR ID	17	Section no.	3.1	Date : 21/11/2025
Description of CAR				
PP is requested to provide the breakdown justification and details.				
Project participant response				Date: 25/11/2025
The PP has provided the required breakdown details. The same has been included in Appendix 04 for reference.				

Documentation provided by project participant	
Revised MR	
VVB assessment	Date: 03/12/2025
PP has provided the breakdown details in the appendix of the MR. VVB has cross verified the information and found it correct. Hence the CAR is closed.	

CAR ID	18	Section no.	4.2	Date : 21/11/2025
Description of CAR				
PP is requested to check and revise the information in the data/parameter (EGWTG).				
Project participant response				Date: 24/11/2025
The information in the data/parameter has been revised.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 03/12/2025
PP has updated the information and provided the MR. VVB cross verified the information and found it satisfactory. Hence the CAR is closed.				

CAR ID	19	Section no.	MR	Date : 21/11/2025
Description of CAR				
PP is requested to provide the training table in the appendix of the MR.				
Project participant response				Date: 25/11/2025
The training table has been included in Appendix 03 for reference in revised MR.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 03/12/2025
PP has provided the Training table in appendix of MR along with the evidence. Hence the CAR is closed.				

CAR ID	20	Section no.	5.4	Date : 21/11/2025
Description of CAR				
PP is requested to provide the total percentage difference in the ex-ante and achieved emissions removals/reductions.				
Project participant response				Date: 25/11/2025
The PP has updated the percentage difference in the revised MR.				
Documentation provided by project participant				
Revised MR				
VVB assessment				Date: 03/12/2025
PP has provided the Percentage difference in MR. VVB has cross verified the information. Hence the CAR is closed,				

CAR ID	21	Section no.	ER sheet	Date : 21/11/2025
Description of CAR				
PP is requested to match and revise the net-generation for March 2025 as per the JMR.				
Project participant response				Date: 25/11/2025
The ER sheet has been revised the net-generation for March 2025 as per the JMR.				
Documentation provided by project participant				
Revised ER sheet				
VVB assessment				Date: 03/12/xxxx
PP has revised the net-generation value for march and same has been verified by VVB. Hence the CAR is closed.				

Table 3.CL from this Verification

CL ID	01	Section no.	MR	Date: 29/09/2025
Description of CL				

PP is requested to provide the following documents:

- Technical specification of equipment's
- Power Purchase Agreement
- Meter Calibration Certificate
- Company policies mentioned in MR
- Fortum Sustainability policy
- Workplace safety assessments and incident reports
- Health and safety protocols
- Audit report and inspections document
- Letter of declaration from PP for Carbon credit rights and Name change Intimation
- Undertaking for No Double Counting
- Monthly JMRs issued by RRVNPL for the current verification period
- Invoice issued by PP to SECI (Solar Energy Corporation of India Ltd.)
- Employment Record (Attendance sheet/salary details): 01-July-2024 to 31-july-2025
- Stakeholder Analysis Report
- Environmental and Social Impact Assessment Report (ESIA)
- Copy of Grievance Register: 01-July-2024 to 31-july-2025
- Monitoring results Communication with stakeholder record
- Photographs of suggestion box
- O&M Agreement for current monitoring period
- Training records: 01-July-2024 to 31-July-2025
- Validated communication plan
- Land lease agreement document
- Fortum People Policy

Project participant response

Date: 25/11/2025

Documents submitted	
• Technical specification of equipment's • Power Purchase Agreement • Meter Calibration Certificate • Company policies mentioned in MR • Fortum Sustainability policy • Audit report and inspections document • Letter of declaration from PP for Carbon credit rights and Name change Intimation • Undertaking for No Double Counting • Monthly JMRs issued by RRVNPL for the current verification period • Invoice issued by PP to SECI (Solar Energy Corporation of India Ltd.) • Employment Record (Attendance sheet/salary details): 01-July-2024 to 31-july-2025 • Stakeholder Analysis Report • Environmental and Social Impact Assessment Report (ESIA) • Copy of Grievance Register: 01-July-2024 to 31-july-2025 • Monitoring results Communication with stakeholder record • Photographs of suggestion box • O&M Agreement for current monitoring period • Training records: 01-July-2024 to 31-July-2025	
Documentation provided by project participant	
• Technical specification of equipment's • Power Purchase Agreement • Meter Calibration Certificate • Fortum Sustainability policy • Audit report and inspections document • Letter of declaration from PP for Carbon credit rights and Name change Intimation • Undertaking for No Double Counting • Training records: 01-July-2024 to 31-July-2025	
VB assessment	Date: 05/12/2025
PP is has provided the required documents. Hence the CL is still closed.	

Table 4.FAR from this Verification

FAR ID	00	Section no.		Date : xx/xx/xxxx
Description of FAR				
Not Applicable				
Project participant response				Date: xx/xx/xxxx
Not Applicable				
Documentation provided by project participant				
Not Applicable				
VVB assessment				Date: xx/xx/xxxx
Not Applicable				

APPENDIX IV: METER CALIBRATION DETAILS

The power generated by the project is evacuated through two feeders with a capacity of 125 MW each. The voltage is initially generated at 800V and stepped up to 33 kV using transformers. The power is then transmitted through two feeders, connecting the power plant to the Bhensara substation. The Jodhpur Vidyut Vitaran Nigam Limited (JDVVNL) is responsible for evacuating the power from the project and integrating it into the Indian grid system for distribution. Energy billing meter installed at the 400/220kV GSS (Grid Substation) located at Bhensara, Jaisalmer, Rajasthan.

The energy meters are calibrated once every five years. The calibration frequency is in line with the registered VCS PD version 02 dated 19-December-2019. The calibration process is also in line with Article 7 para 7.1.1 of the Power Purchase Agreement “For installation of Meters, Meter testing, Meter calibration and Meter reading and all matters incidental thereto, the SPD and SECI shall follow and be bound by the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006; the Grid Code, as amended and revised time to time.” As per para 1 (b) under section 18 of Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, “All interface meters shall be tested at least once in five years.”

Monitoring: Bidirectional Tri vector meter will be used Data type: Measured Type of meter: Static type meter (Main & Check). Both are Bidirectional meters. Class of meter: 0.2s., Version 4.0 Calibration frequency: One in five years, and Name of Calibrator: Darsh Calibrations Private Limited.

The details of energy meters along with calibration dates are mentioned below:

Meter	Sl. No.	Make	Model	Type	Class	Calibration Dates	Due date of calibration	Name of the entity
Main Meter	RJB99499	Secure	APEX 150	3phase 4wire	0.2s	01-March-2022	28-February-2027	Darsh Calibrations Private Limited /38/
Check Meter	RJB99500	Secure	APEX 150	3phase 4wire	0.2s	01-March-2022	28-February-2027	Darsh Calibrations Private Limited /38/
Standby Meter	RJB99501	Secure	APEX 150	3phase 4wire	0.2s	01-March-2022	28-February-2027	Darsh Calibrations Private Limited/38/

APPENDIX V: TRAINING RECORDS

S. No.	Date	Training
1.	11-February-2025	Environment safety &Material handling / Storage Training
2.	21-February-2025	Fire Safety Management
3.	23-February-2025	ERP, JSA and HIRA
4.	05-March-2025	Awareness session on snake bite- external Training
5.	06-March-2025	Fire Fighting Training
6.	06-March-2025	First aid and CPR Training
7.	19-March-2025	Heat stress/ heat stroke – monthly theme
8.	21-March-2025	Electrical Safety solar OM
9.	21-March-2025	Loto – Line clearance
10.	24-March-2025	Kaizen Awareness, RIR or UVWC & Incident management system
11.	05-April-2025	Firefighting Awareness Training
12.	06-April-2025	Behavioral based safety &use of PPEs
13.	24-April-2025	Basic First Aid Training
14.	26-April-2025	Lifesaving rules & work at height

APPENDIX VI: Breakdown Details

The plant was operational for 3,348.43 hours out of a total of 6600 hours in the current monitoring period i.e. from 01/July/2024 to 31/July/2025. There are no such events during operation of the project activity that may impact the GHG emission reductions or removals in the monitoring period. There were few minor breakdowns occurred due to scheduled maintenance activities and some other reasons. However, the plant was not totally shut down during breakdown hours, only the affected parts were shut down. Total breakdown hours for the current monitoring period are 1325.65 hours. The details of the breakdown/downtime with description are mentioned below:

Month	Equipment	BD Duration (Hrs)	Description
July -2024	String, Inverter, TS- (1, 2, 3, 5, 20)	80.00	MC4 Open, mc4 burn & mppt off, INV. Device fault
Aug-2024	String, Inverter, IDT (TS - 20, 16, 5, 13, 14, 15, 1, 17, 18)	306.98	Ground Fault, Device fault, MC4 burn, Overcurrent trip due to voltage fluctuation, Low Insulation Resistance, Manually switched off, MC4 BURN, Module damage, Cable sleeve damage, MCCB Tripped
Sep-2024	String, Inverter (TS 18, 5, 12, 20, 2, 15, 11, 10, 16, 19, 13, 6)	199.38	Ground Fault, String cable ground fault, device failure, sting reverse current, MC4 loose connection, Due to moisture, String cable sleeve damage in purlin, Cable sleeve damage
Oct-2024	String, Inverter (TS 13, 17, 7, 9, 5, 10, 20, 4, 8, 14, 18, 2, 3, 6, 15, 11, 16, 1)	300.0	Low Insulation Resistance, MC4 BURN, Ground Fault. Cable sleeve damage, Low Insulation Resistance, sting reverse current, string cable burn due to sleeve damage, Device fault Error, External fan abnormal alarm, ACDB Switch made off, INV Tripped Due to Ground Fault.
Nov-2024	String, Inverter, HT Panel (TS 14, 7, 8, 2, 6, 5, 19, 17, 3, 9, 13, 10, 18, 5)	143.65	Due to grid voltage fluctuation all inverter tripped due to output overcurrent, External fan abnormal alarm, MC4 BURN, Ground Fault, Due to grid voltage fluctuation all inverter tripped due to output overcurrent, Device fault Error
Dec-2024	All Inverter	28.53	Due to grid voltage fluctuation all inverters tripped due to output overcurrent, Ground Fault,

			abnormal residual current error, Due to voltage fluctuation.
Jan-2025	String, Inverter (TS 6, 18, 1, 7, 15, 13, 2, 10, 9, 14, 17)	150.10	Ground Fault, Inverter tripped due to dc ground fault, Inverter MPPT Off, String Cable Damage, Low Insulation Resistance, New inverter replacement, string current Back feed fault
Feb-2025	Inverter (TS 17)	38.23	Ground Fault
Mar-2025	Inverter, String (TS 11, 13, 14, 16)	7.85	Ground Fault, abnormal residual current error, MC4 Melted
Apr-2025	String, Inverter (TS 6, 18, 1, 7, 15, 13, 2, 10, 9, 14, 17)	50.07	Ground Fault, Inverter tripped due to dc ground fault, Inverter MPPT Off, String Cable Damage, Low Insulation Resistance, New inverter replacement, string current Back feed fault
May - 2025	String, Inverter (TS 13, 17, 7, 9, 5, 10, 20, 4, 8, 14, 18, 2, 3, 6, 15, 11, 16, 1)	12.50	Low Insulation Resistance, MC4 BURN, Ground Fault. Cable sleeve damage, Low Insulation Resistance, sting reverse current, string cable burn due to sleeve damage, Device fault Error, External fan abnormal alarm, ACDB Switch made off, INV Tripped Due to Ground Fault.
June-2025	String, Inverter, TS- (1, 2, 3, 5, 20)	8.35	MC4 Open, mc4 burn & mppt off, INV. Device fault

APPENDIX V: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS



CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Atin Kumar Pathak

è qualificato come¹:
is qualified as:

TL – VAL – VER – TEC – REG-EXP² – ITR

nello schema³:
for the scheme:

VCS – GS4GG

per le seguenti aree tecniche:
for the following technical areas:

1.1 – 1.2 – 3.1 – 5.1 – 7.1 – 13.1 – 13.2 – 14.1 – 15.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
3.1	Energy Demand	3
5.1	Chemical Industry	5
7.1	Transport	7
13.1	Solid waste and wastewater	13
13.2	Manure	13
14.1	Afforestation and Reforestation	14
15.1	Agriculture	15

in accordo alle istruzioni dell'Unità responsabile (OU) per sostenibilità & cambiamenti climatici.
in accordance with the instructions of the responsible unit (OU) for the sustainability & climate change.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	16/10/2024	First Issue
1	20/11/2024	Update qualification as TL
2	15/04/2025	Update sectoral scope 5, 7, 15
3	21/07/2025	Update qualification as ITR

Il Resp. OU
Head of OU

Roma Severino

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
REG-EXP: Regional Expert
ITR: Independent Reviewer
DET: Determiner

² Legend:

CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS4GG: Gold Standard for Global Goals
SCS: SocialCarbon Standard
JI: Joint Implementation
ISO14064-2: International standard 14064 part 2

³ Indonesia, Thailand, Malaysia, Kyrgyzstan, Portugal, Estonia, Lithuania, Latvia, Africa Region

RINA Services S.p.A. è accreditata da UNFCCC, quale Entità Operativa Designate (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS.

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS4GG Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports.

GHG_QUAL_CERT_EN(06-2021)

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CERTIFICATO DI QUALIFICA **QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Ashish Kumar

è qualificato come¹:
is qualified as:

VAL – VER – TL

nello schema²:
for the scheme:

VCS – GS

per le seguenti aree tecniche:
for the following technical areas:

1.2 – 14.1 – 15.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
14.1	Afforestation and Reforestation	14
15.1	Agriculture	15

in accordo alle istruzioni dell'Unità responsabile (OU) per sostenibilità & cambiamenti climatici.
in accordance with the instructions of the responsible unit (OU) for sustainability & climate change.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	10/06/2025	First issue
1	19/08/2025	Update qualification as TL

Il Resp. OU
Head of OU



¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
REG-EXP: Regional Expert

ITR: Independent Reviewer
DET: Determiner

² Legend:

CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS4GG: Gold Standard for Global Goals
SCS: SocialCarbon Standard
JI: Joint Implementation
ISO14064-2: International standard 14064 part 2



CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Lata Verma

è qualificato come¹:
is qualified as:

VAL – VER – TL

nello schema²:
for the scheme:

VCS – GS

per le seguenti aree tecniche:
for the following technical areas:

1.2 – 13.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
13.1	Solid waste and wastewater	13

in accordo alle istruzioni dell'Unità responsabile (OU) per sostenibilità & cambiamenti climatici.
in accordance with the instructions of the responsible unit (OU) for the sustainability & climate change.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	10/06/2025	First issue
1	29/07/2025	Update qualification as TL

Il Resp. OU
Head of OU

Lata Verma

¹ Legend:
VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
REG-EXP: Regional Expert

ITR: Independent Reviewer
DET: Determiner

² Legend:
CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS4GG: Gold Standard for Global Goals
SCS: SocialCarbon Standard
JI: Joint Implementation
ISO14064-2: International standard 14064 part 2

RNA Services S.p.A. è accreditata da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS.
RNA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS4GG Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports

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CERTIFICATO DI QUALIFICA PER GLI SCHEMI VOLONTARI*
QUALIFICATION CERTIFICATE FOR VOLUNTARY SCHEMES*

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Cyril Augustus Arokiasamy Amalorpavanathan

è qualificato come:
is qualified as:

TEC, VAL, VER, TL, Local Expert, ITRP, REG¹

per le seguenti aree tecniche:
for the following technical areas:

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
4.1	Cement and Lime Production	4
3.1	Energy Demand	3
5.1	Chemical industry	5
13.1	Solid Waste and wastewater	13

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	19/07/2016	First issue with new template (this certificate is linked to CDM qualification)
2	09/10/2017	Qualification update as ITRP

Responsabile di schema
Scheme Leader
Laura Severino



*SCHEMI VOLONTARI/ VOLUNTARY SCHEMES: ACR American Carbon Registry, CCB The Climate, Community & Biodiversity Alliance, GS Gold Standard, JI Joint Implementation, SCS Social Carbon Standard, VCS Verified Carbon Standard.

¹ Ghana, Azerbaijan, China, Sri Lanka, Bangladesh, Nepal, Thailand, Indonesia, Singapore, Malaysia, Cambodia, Vietnam, Philippines, UAE and Iraq, Brazil, Japan.

TEC: Technical expert; VAL: Validator; VER: Verifier; TL: Team leader; FIN EXP: Financial Expert; ITRP: Independent technical reviewer

RINA Services S.p.A. è accreditato/riconosciuto da
RINA Services S.p.A. is accredited /recognized by

UNFCCC	quali Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects
VCSA	per condurre la Validazione e la Verifica di Progetti VCS to carry out Validation and Verification of VCS Projects
GS Foundation	per condurre la Validazione e la Verifica di Progetti GS to carry out Validation and Verification of GS Projects
Ecologica Institute	per condurre la Validazione e la Verifica di rapporti SCS to carry out Validation and Verification of SCS Reports
American Carbon Registry ACR	per condurre la Validazione e la Verifica di Progetti ACR to carry out Validation and Verification of ACR projects
The Climate, Community & Biodiversity Alliance CCB	per condurre la Validazione e la Verifica di Progetti co-benefit CCB to carry out Validation and Verification of co-benefit CCB projects

GHG_QUAL_CERT_EN_07_16 Voluntary(Certificate)

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