



SQAC CERTIFICATION PVT.LTD.

Project Verification Report Form (VR)

BASIC INFORMATION

Name of approved UCR Project Verifier / Reference No.	SQAC Certification Pvt. Ltd.
Type of Accreditation	<input type="checkbox"/> CDM or other GHG Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> UCR Approved
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	01 Energy industries (Renewable/Non Renewable Sources)
Validity of UCR approval of Verifier	October 2021 onwards.
Completion date of this VR	10/07/2024
Title of the project activity	2.107 MW Bundled Solar Power Project by M/s Som Shiva Impex Ltd., Gujarat,
Project reference no.	UCR ID: 433
Name of Entity requesting verification service	M/s. Som Shiva Impex Ltd. & M/s. Maverik Incorporation.
Contact details of the representative of the Entity, requesting verification service	M/s. Som Shiva Impex Limited. (Project Owner) Registered office: - Plot no. 111, GIDC, Phase 1, Chhatral 382729, Tal: Kalol, (N.G.J) Dist: - Gandhinagar. M/s. Maverik Incorporation (Aggregator) Contact Person: Nutan V Pancholi Email: projects@maverikgroup.biz

Accredited by 5 Jupiter House, Callera Park, Aldermaston, Reading Berkshire RG7 8NN, United Kingdom (UK).



India Office: Off. No. 4, Fifth Floor, Buildmore Business Park, New Canca Bypass Road, Khorlim, Mapusa, Goa – 403 507

Web: www.sqac.in

Email: info@sqac.in Tel: 7219716786 / 87





	Registered office: - Office#37, 3 rd floor. Darshanam Trade Centre #I, Sayajiganj, Vadodara – 390 020. Gujarat, India.
Country where project is located	India
Applied methodologies (approved methodologies by UCR Standard used)	Applied Baseline Methodology: AMS-I.D.: “Grid connected renewable electricity generation”, version 18 Standardized Methodology: Baseline: UCR Protocol Emission Factor
GHG Sectoral scopes linked to the applied methodologies	01 Energy industries (Renewable/Non-Renewable Sources)
Project Verification Criteria: Mandatory requirements to be assessed	<input checked="" type="checkbox"/> UCR Standard <input checked="" type="checkbox"/> Applicable Approved Methodology <input type="checkbox"/> Applicable Legal requirements /rules of host country <input checked="" type="checkbox"/> Eligibility of the Project Type <input checked="" type="checkbox"/> Start date of the Project activity <input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology <input checked="" type="checkbox"/> Credible Baseline <input checked="" type="checkbox"/> Do No Harm Test <input checked="" type="checkbox"/> Emission Reduction calculations <input checked="" type="checkbox"/> Monitoring Report <input checked="" type="checkbox"/> No GHG Double Counting <input type="checkbox"/> Others (please mention below)
Project Verification Criteria: Optional requirements to be assessed	<input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria



	<input checked="" type="checkbox"/> Social Safeguards Standard do-no-harm criteria
<p>Project Verifier's Confirmation:</p> <p>The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:</p>	<p>The UCR Project Verifier SQAC Certification Pvt. Ltd., certifies the following with respect to the UCR Project Activity 2.107 MW Bundled Solar Power Project by M/s. Som Shiva Impex Ltd., Gujarat.</p> <p><input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the Project Concept Note dated 13/04/2024 and Monitoring Report V1 dated 08/05/2024 including the applicability of the approved methodology AMS -I.D. :“Grid connected renewable electricity generation”, version 18, Standardized Methodology: Baseline: UCR Protocol Emission Factor and meets the methodology applicability conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively.</p> <p><input checked="" type="checkbox"/> The Project Activity is generating GHG emission reductions amounting to the estimated 24,166 tCO_{2e}, as indicated in the MR V1, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3.</p> <p><input checked="" type="checkbox"/> The Project Activity is not likely to</p>



	<p>cause any net-harm to the environment and/or society.</p> <p><input checked="" type="checkbox"/> The Project Activity complies with all the applicable UCR rules¹ and therefore recommends UCR Program to register the Project activity with above mentioned labels.</p>
Project Verification Report, reference number and date of approval	Verification Report UCR Project ID: 433 dated 10/07/2024
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	<div></div> <p>Santosh Nair Lead Verifier (Signature) SQAC Certification Pvt Ltd</p>

PROJECT VERIFICATION REPORT

Section A. Executive summary

Maverik Incorporation has contracted SQAC Certification Pvt. Ltd. to carry out the verification of the project activity of 2.107 MW Bundled Solar Power Project by M/s. Som Shiva Impex Ltd. at Gujarat, India”, UCR approved project ID:433, to establish number of CoUs generated by project over the crediting period from **01/01/2013 - 31/12/2023** (11 years 00 months)

We believe that the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report V1(MR), submitted to us is accurate and in line with the UCR guidelines.

The GHG emission reductions were calculated based on UCR Protocols which draws reference from, CDM UNFCCC Methodology, AMS-I.D.: “Grid connected renewable electricity generation”, version 18, Standardized Methodology: Baseline: UCR Protocol Emission Factor. The verification was done remotely by way of video calls / verification, phone calls and submission of documents for verification through emails as per UCR guidelines.

SQAC is able to certify that the emission reductions from 2.107 MW Bundled Solar Power Project by M/s. Som Shiva Impex Ltd. at Gujarat, India, (UCR ID – 433) for the period **01/01/2013 to 31/12/2023** amounts to **24,166 CoUs (24,166 tCO₂eq)**

Project Verification team, technical reviewer and approver

Section B. Project Verification Team

Sr. No.	Role	Last name	First name	Affiliation	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Team Leader	Nair	Santosh	n/a	yes	yes	yes
2.	Validator	Nair	Santosh	n/a	yes	yes	yes

Technical reviewer and approver of the Project Verification report

Sr. No.	Role	Type of resource	Last name	First name	Affiliation
1.	Technical reviewer	IR	Shinganapurkar	Praful	SQAC Certification Pvt. Ltd
2.	Approver	IR	Shinganapurkar	Praful	SQAC Certification Pvt. Ltd

Section C. Means of Project Verification

C.1. Desk/document review

As part of the review and validation process, Maverik Incorporation submitted a comprehensive set of documents for examination to the Lead Verifier. The documents included the Project Concept Note (PCN), Monitoring Report V1 (MR), ER sheet, Commissioning Certificate (GEDA), Power Purchase Agreement with (Gujarat Urja Vikas Nigam Limited), Commercial Invoices, solar panel invoice, solar module invoice, Power Generation Excel sheets (PPA Plant & Captive use) and additional data provided upon request pertaining to all related projects. These documents were thoroughly reviewed to ensure compliance with relevant standards and guidelines, and to validate the accuracy and completeness of the information provided.

C.2. Off-site inspection

Date of offsite inspection: 27/06/2024			
Sr. No.	Activity performed Off-Site	Site location	Date
1.	Interview conducted over Video call/Telephonic discussions	Savda, Gujarat	27/06/2024
2	Supporting documents provided before, during, after the verification.	Savda, Gujarat	10/05/2024 to 01/07/2024

C.3. Interviews

Sr. No.	Interview			Date	Subject
	Name	Designation	Affiliation		
1	Kavit Dave	CA	M/s. Som Shiva Impex Ltd.	27/06/24	Compliance, Meter Calibration, Joint Meter Readings and Invoices.
2	Mahendra Singh Zala	Electrical Engineer	M/s. Som Shiva Impex Ltd.	27/06/24	Double Counting and project commissioning and overview

C.4. Sampling approach

Not applicable

C.5. Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
Green House Gas (GHG)			
Identification and Eligibility of project type	Nil	Nil	Nil
General description of project activity	Nil	Nil	Nil
Application and selection of methodologies and standardized baselines			
- Application of methodologies and standardized baselines	Nil	Nil	Nil
- Deviation from methodology and/or methodological tool	Nil	Nil	Nil
- Clarification on applicability of methodology, tool and/or standardized baseline	Nil	Nil	Nil
- Project boundary, sources and GHGs	Nil	Nil	Nil
- Baseline scenario	Nil	Nil	Nil
- Estimation of emission reductions or net anthropogenic removals	Nil	Nil	Nil
- Monitoring Report	Nil	Nil	Nil
Start date, crediting period and duration	Nil	Nil	Nil
Environmental impacts	Nil	Nil	Nil

Project Owner- Identification and communication	Nil	Nil	Nil
Total	Nil	Nil	Nil

Section D. Project Verification Findings

D.1. Identification and eligibility of project type

Means of Project Verification	The Project references the CDM UNFCCC Methodology, AMS- I.D: “Grid connected renewable electricity generation”, version 18, Standardized Methodology: Baseline: UCR Protocol Emission Factor.
Findings	<ol style="list-style-type: none"> 1. The Project activity is outlined in the UCR-approved Project Concept Note (PCN)/ Monitoring Report V1 (MR). 2. The UCR project communication agreement distinctly identifies the roles of the Project Proponent and Project Aggregator.
Conclusion	In conclusion, the project description adheres to the UCR-approved format and satisfies the criteria of both the UCR Verification Standard and the UCR Project Standard. The UCR project communication agreement has been submitted and verified. The referenced methodology has been accurately applied to describe the project type. The eligibility of the project aggregator has been confirmed using the UCR communication agreement. Furthermore, the project complies with the verification standard, UCR project standard, and UCR regulations. In conclusion, the project activity successfully meets the requirements of the UCR Verification Standard and the UCR Project Standard.

D.2. General Description of Project Activity

Means of Project Verification	The Project 2.107 MW bundled solar power project activity by Som Shiva Impex Ltd., is to generate clean renewable electricity through solar photovoltaic technology, thereby reducing GHG emissions from fossil fuel-based grid electricity generation. Verified documents like PCN, Monitoring Report & ER sheet, Joint Meter Readings & Invoices, Power Purchase Agreement, Commissioning Certificates, double counting agreement. Power generation worksheet was compared with the Joint Meter Readings. Meter reading photographs were looked upon.
Findings	<p>Upon verification the Joint Meter Readings and invoices from January 1, 2013, to December 31, 2023, were verified and found to be matching with the emission reduction calculations.</p> <p>The project includes a grid-connected solar PV power plant, with 1.007 MW for regional grid supply and 1.1 MW for captive use. During the period from January 1, 2013, to December 31, 2023, it produced 26,857 MWh of electricity, reducing GHG emissions by 24,166 tCO₂e, thereby contributing to climate change mitigation.</p>
Conclusion	In conclusion, the description of the project activity is verified to be true based on the review of PCN / MR V1. The project adheres to CDM Methodology, utilizing environmentally friendly solar PV technology and contributing significantly to climate change mitigation by displacing fossil fuel-based grid electricity.

D.3. Application and selection of methodologies and standardized baselines

D.3.1 Application of methodology and standardized baselines

Means of Project Verification	<p>Project Documentation: Examining the Project Concept Note (PCN) / Monitoring Report (MR) V1 and related documentation to ensure it includes all necessary information as per AMS-I.D. requirements. Verifying the correct definition and justification of the project boundary, baseline scenario, and additionality.</p> <p>Off-Site Inspection: Conducting a remote inspection of the Project activity to confirm operational compliance.</p> <p>Monitoring and Reporting: Review the monitoring plan for alignment with methodology requirements. Verify that the recorded data is accurate, consistent, and complete.</p> <p>Cross-Referencing Guidelines: Ensuring adherence to CDM guidelines.</p> <p>Stakeholder Consultation: Gather feedback from local stakeholders, including community members, to verify that the project activities are as described and have no adverse social or environmental impacts.</p>
Findings	<p>Upon verification, the Project Concept Note (PCN) / Monitoring Report (MR) V1 includes all necessary information and that the project boundary, baseline scenario, and additionality are correctly defined and justified. The methodology was correctly applied, with proper identification and use of baseline data, and accurate calculations of baseline emissions and emission reductions. The monitoring reports align with methodology requirements, and the recorded data is accurate, consistent, and complete. Overall, the project adheres to the CDM methodology, ensuring</p>

	credible GHG emission reductions.
Conclusion	<p>In conclusion, the Solar Power Project by M/s. Som Shiva Impex Ltd. complies with the CDM Methodology AMS-I.D. "Grid connected renewable electricity generation." The Project accurately defines & justifies the project boundary, baseline scenario, and additionality, follows the required methodology for calculating emissions reductions. The monitoring reports are consistent, accurate, and complete, confirming the generation of renewable electricity and corresponding GHG emission reductions. Therefore, the project successfully contributes to climate change mitigation by displacing fossil fuel-based grid electricity.</p>

D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

Means of Project Verification	<p>Document Review: Verify the Project Concept Note (PCN) / Monitoring Report (MR) V1, feasibility study reports, and all necessary permits and approvals to ensure compliance with the AMS-I.D. methodology and project specifications.</p> <p>Off-Site Visits: Conduct off-site inspection and stakeholder interviews to confirm the proper installation and operation of the solar PV systems as described in the PCN.</p> <p>Monitoring and Data Collection: Ensure a monitoring plan is in place, review electricity generation data, and verify the calibration of monitoring equipment.</p> <p>Emission Reduction Calculation: Validate the baseline emission factor according to the UCR Protocol and verify the accuracy of GHG emission reduction calculations.</p>
Findings	Upon verification, it was found that the project correctly applies the UNFCCC CDM

	<p>Methodology AMS-I.D. methodology, version 18, suitable for grid-connected renewable electricity generation through solar photovoltaic technology.</p> <p>Baseline Compliance: The project uses the UCR Protocol Emission Factor as the baseline, accurately reflecting the displacement of fossil fuel-based grid electricity generation and complying with standardized methodology requirements.</p> <p>Monitoring Plan: A robust monitoring plan is in place, compliant with AMS-I.D. requirements, ensuring accurate data collection and reliable monitoring equipment.</p> <p>Emission Reduction Validation: Emission reduction calculations are validated, confirming accurate application of the UCR Protocol Emission Factor and proper recording of renewable electricity generation.</p> <p>Standardized Baseline Conformity: The project adheres to the UCR Protocol standardized baseline, ensuring credible and representative baseline emissions and reliable calculation of GHG emission reductions.</p>
Conclusion	<p>In conclusion, the 2.107 MW bundled solar power project by Som Shiva Impex Ltd. effectively applies the AMS-I.D. methodology, version 18, for grid-connected renewable electricity generation. This project qualifies as a small-scale activity under Type I of the Small-Scale Methodology (AMS I.D., version 18). The methodology outlines criteria for such projects, promoting sustainable development goals by supporting renewable</p>

	<p>energy generation and reducing greenhouse gas emissions. The use of the UCR Protocol Emission Factor as the baseline is accurate and compliant with standardized methodology requirements. The project has a robust monitoring plan, ensuring precise data collection and reliable emission reduction calculations. Overall, the project meets the necessary criteria for generating carbon credits by effectively reducing GHG emissions through clean renewable electricity generation.</p>
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D.3.3 Project boundary, sources and GHGs

<p>Means of Project Verification</p>	<p>Project Boundary: Verify that the project boundary includes all relevant sites and equipment for electricity generation and delivery.</p> <p>Source Identification: Confirm the identification of all GHG emission sources within the project boundary, focusing on the displacement of grid electricity by solar PV systems.</p> <p>GHG Emissions Reduction: Validate the baseline emissions using the UCR Protocol Emission Factor and verify the calculation of emission reductions based on electricity generated.</p> <p>Monitoring Plan Compliance: Ensure the monitoring plan covers necessary parameters, and that equipment is calibrated and maintained for reliable data collection.</p> <p>Documentation and Reporting: Review all documentation, including the PCN and monitoring report, to ensure accurate representation of operations and emission</p>
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	reductions, and compliance with AMS-I.D. methodology and UCR Protocol.
Findings	<p>Upon verification, it was found that the project confirms the project boundary appropriately includes all sites and equipment related to the solar PV systems. The relevant GHG emission sources have been correctly identified, primarily focusing on the displacement of fossil fuel-based grid electricity. The baseline emissions are accurately established using the UCR Protocol Emission Factor, and the calculation of GHG emission reductions is based on the actual electricity generated. The monitoring plan is comprehensive and ensures reliable data collection, and all documentation accurately reflects the project's operations and emission reductions in compliance with the AMS-I.D. methodology and UCR Protocol.</p>
Conclusion	<p>In conclusion, the project appropriately includes all relevant sites and equipment necessary for solar electricity generation and grid delivery. The sources of GHG emissions have been accurately identified, focusing on the reduction of emissions from displaced fossil fuel-based grid electricity. The baseline emissions have been correctly established using the UCR Protocol Emission Factor, ensuring a reliable basis for calculating emission reductions. The monitoring plan is thorough and ensures precise data collection, and all project documentation is accurate and compliant with the AMS-I.D. methodology and UCR Protocol requirements.</p>

D.3.4 Baseline scenario

Means of Project Verification	<p>Documentation Review: Verify the Project Concept Note (PCN) / Monitoring Report (MR) to ensure it accurately describes the baseline scenario and the methodology used (AMS-I.D. version 18). Confirm that the UCR Protocol Emission Factor is appropriately applied to establish baseline emissions from fossil fuel-based grid electricity that the project displaces.</p> <p>Data Validation: Validate the baseline emission factor calculation method to ensure it reflects the most accurate and up-to-date emissions data from the relevant grid sources. Verify that the calculation considers emissions factor as per the UCR Protocol standards.</p> <p>Comparison and Justification: Compare the project's baseline emissions with grid emission factor to justify the accuracy and reliability of the chosen UCR Protocol Emission Factor.</p>
Findings	<p>Upon Verification, the findings on the baseline scenario show adherence to AMS-I.D. methodology version 18, focusing on grid-connected renewable electricity generation. The project appropriately applies the UCR Protocol Emission Factor to establish baseline emissions from displaced fossil fuel-based grid electricity. Documentation, including the Project Concept Note/Monitoring Report V1, Emission reduction calculations support transparency and credibility in demonstrating GHG emission reductions achieved through solar photovoltaic technology. Overall, the project meets rigorous standards for carbon credit eligibility based on its effective reduction of GHG emissions.</p>
Conclusion	<p>In conclusion, on the baseline scenario for Som Shiva Impex Ltd.'s 2.107 MW bundled solar power project is positive and robust. The project</p>

	effectively applies the AMS-I.D. methodology version 18, utilizing the UCR Protocol Emission Factor accurately to establish baseline emissions from displaced fossil fuel-based grid electricity. Documentation, including the Project Concept Note/Monitoring Report V1, Emission reduction calculations provide transparent and credible evidence of the project's GHG emission reduction impact through solar photovoltaic technology. Overall, the project meets stringent criteria for carbon credit eligibility based on its reliable establishment and verification of the baseline scenario.
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D.3.6 Estimation of Emission Reductions or Net Anthropogenic Removal

Means of Project Verification	<p>Data Review and Analysis: Verify the accuracy and completeness of data related to electricity generation from the solar PV systems, including monitoring records, Joint Meter Readings, invoices, and measurement methodologies.</p> <p>Emission Factor Application: Ensure correct application of the UCR Protocol Emission Factor to establish baseline emissions from the displaced fossil fuel-based grid electricity.</p> <p>Calculation Validation: Validate the methodology used to calculate emission reductions by comparing the actual electricity generated through Joint Meter Readings and invoices by the solar PV systems with the baseline emissions.</p> <p>Documentation and Reporting: Review all documentation, such as the Project Concept Note/Monitoring Report V1, Emission reduction calculations to ensure transparency and accuracy in reporting the project's GHG emission reductions or net anthropogenic removal.</p>
Findings	Upon Verification, the project activity accurately

	<p>applies the AMS-I.D. methodology version 18, utilizing the UCR Protocol Emission Factor to establish baseline emissions from displaced fossil fuel-based grid electricity.</p> <p>Emission reduction calculations are validated through comprehensive JMR and invoice review, ensuring that the actual electricity generated by the solar PV systems aligns with the methodology's requirements.</p> <p>Overall, the project demonstrates significant GHG emission reductions through effective deployment of solar photovoltaic technology, meeting stringent criteria for carbon credit eligibility</p>
Conclusion	<p>In conclusion, the estimation of emission reductions or net anthropogenic removal is highly favourable. The project effectively applies the AMS-I.D. methodology version 18, using the UCR Protocol Emission Factor to establish a robust baseline of emissions from displaced fossil fuel-based grid electricity. Emission reduction calculations are meticulously validated, demonstrating that the project's generation of clean renewable electricity through solar PV technology significantly reduces GHG emissions. Overall, the project convincingly meets the stringent criteria for generating carbon credits based on its substantial contribution to reducing GHG emissions.</p>

D.3.7 Monitoring Report

Means of Project Verification	<p>Data Accuracy: Verify the accuracy and completeness of data recorded in the monitoring report, ensuring it covers all relevant parameters related to electricity generation from the solar PV systems.</p> <p>Compliance Check: Ensure the monitoring report adheres to the requirements specified in the AMS-I.D. methodology version 18 and includes details on how the UCR Protocol Emission Factor was applied to establish baseline emissions.</p> <p>Validation of Monitoring Equipment: Validate that monitoring equipment used for data collection is calibrated and maintained according to industry standards, ensuring reliability in measuring electricity generation and emission reductions.</p> <p>Comparative Analysis: Conduct a comparative analysis between the data in the monitoring report and the baseline scenario to verify the accuracy of GHG emission reductions claimed by the project.</p>
Findings	<p>Upon verification, the monitoring report findings indicate strong adherence to methodology and transparency in reporting. The report accurately captures all relevant data points related to electricity generation from the solar PV systems, ensuring comprehensive coverage of operational parameters. It adheres to the AMS-I.D. methodology version 18, with clear application of the UCR Protocol Emission Factor to establish baseline emissions and calculate emission reductions. The monitoring equipment is validated as calibrated and maintained according to industry standards, ensuring measurement reliability. The documentation, including the monitoring report and verification</p>

	findings, provides transparent and credible evidence supporting the project's eligibility for carbon credits based on its effective contribution to reducing GHG emissions from fossil fuel-based grid electricity generation.
Conclusion	In conclusion, the monitoring report for Som Shiva Impex Ltd.'s 2.107 MW bundled solar power project is highly positive and affirms its environmental impact. The report demonstrates meticulous adherence to AMS-I.D. methodology version 18, accurately applying the UCR Protocol Emission Factor to establish baseline emissions and calculate emission reductions. The data presented, including electricity generation from solar PV systems and corresponding GHG emission reductions, is reliable and comprehensive. Furthermore, the documentation, including the monitoring report and verification findings, provides transparent evidence supporting the project's contribution to reducing GHG emissions from fossil fuel-based grid electricity generation through the deployment of renewable energy technology.

D.4. Start date, crediting period and duration

Means of Project Verification	<p>Verification of Start Date: Confirm the project's start date by reviewing documentation such as commissioning certificates, installation records, PCN and MR, Purchase order of Solar PV panels, Solar Inverter to ensure it aligns with the AMS-I.D. methodology requirements.</p> <p>Assessment of Crediting Period: Validate the proposed crediting period, ensuring it complies with the AMS-I.D. methodology. Check that all relevant documentation supports the start and end dates of the crediting period.</p> <p>Duration Confirmation: Verify that the</p>
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	<p>project's duration is consistent with the terms outlined in the Project Concept Note (PCN) and MR and meets the requirements for renewable energy projects under the AMS-I.D. methodology.</p> <p>Documentation Review: Ensure all documentation, including Power Purchase Agreement, Commissioning Certificates, and monitoring report, is complete and accurately reflects the project's operational timeline and compliance with the UCR Protocol Emission Factor baseline.</p>
Findings	<p>Upon verification, the project's start date is confirmed through detailed documentation, including Power Purchase Agreement, Commissioning Certificates, installation records are in accordance with AMS-I.D. methodology requirements. The proposed crediting period is validated to ensure it adheres to AMS-I.D. guidelines, not exceeding the maximum allowed duration and supported by accurate documentation. The project's duration is reviewed to confirm compliance with the timeframe specified in the Project Concept Note (PCN)/MR V1 are consistent with AMS-I.D. version 18 requirements for renewable energy projects. All related documentation is thorough and complete, providing transparent evidence of the project's operational timeline and compliance with the UCR Protocol Emission Factor baseline. These findings establish the project's eligibility for carbon credits based on its accurate and compliant determination of start date, crediting period, and duration, ensuring alignment with rigorous verification standards.</p>
Conclusion	<p>In conclusion, the project's start date is verified through comprehensive documentation, including contracts,</p>

	<p>installation records, and commissioning reports, ensuring alignment with AMS-I.D. methodology requirements. The proposed crediting period is validated to comply with AMS-I.D. guidelines, confirming it does not exceed the maximum allowable duration and is supported by accurate documentation. The project's duration is assessed to be consistent with the timeframe specified in the Project Concept Note (PCN)/MR V1 and meets the operational timeline required for renewable energy projects under AMS-I.D. version 18. All related documentation is thorough and complete, providing transparent evidence of the project's operational timeline and compliance with the UCR Protocol Emission Factor baseline.</p>
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D.5. Positive Environmental impacts

Means of Project Verification	<p>Impact Assessment: Assess the project's documented environmental benefits, focusing on the reduction of GHG emissions from displaced fossil fuel-based grid electricity, as per the AMS-I.D. methodology version 18 and UCR Protocol Emission Factor.</p> <p>Data Validation: Validate data on electricity generation from the solar PV systems and corresponding GHG emission reductions to ensure accuracy and consistency with methodology requirements.</p> <p>Comparative Analysis: Conduct a comparative analysis between baseline emissions and actual emissions from the project to verify the claimed reduction in GHG emissions, ensuring that the calculations align with established standards.</p> <p>Documentation Review: Review all documentation, including the Project Concept Note /MR V1 to ensure transparency and credibility in reporting the project's positive environmental impacts through the generation of clean renewable electricity.</p>
Findings	<p>Upon verification, it was found that the project effectively reduces GHG emissions by replacing fossil fuel-based grid electricity with renewable electricity generated through solar photovoltaic technology, in accordance with AMS-I.D. methodology version 18 and the UCR Protocol Emission Factor. The data and calculations on electricity generation and emission reductions are validated, demonstrating substantial environmental benefits. The project's documentation, including the Project Concept Note and verification reports, adheres to AMS-I.D.</p>

	<p>methodology guidelines, ensuring credible reporting of positive environmental impacts. Overall, the project significantly contributes to mitigating climate change by reducing reliance on fossil fuels, supporting sustainability goals, and justifying its eligibility for carbon credits based on documented environmental benefits.</p>
Conclusion	<p>In conclusion, the project significantly reduces GHG emissions by replacing fossil fuel-based grid electricity with renewable electricity generated through solar PV technology, in line with AMS-I.D. methodology version 18. Independent verification confirms the project's environmental benefits and validates the accuracy of data on electricity generation and emission reductions. The project adheres strictly to AMS-I.D. guidelines, ensuring transparency and credibility in reporting. By promoting renewable energy and reducing carbon footprints, the project supports global sustainability initiatives. Consequently, the project qualifies for carbon credits due to its measurable and verifiable positive environmental impacts, contributing significantly to sustainable development objectives.</p>

D.6. Project Owner- Identification and communication

Means of Project Verification	<p>Ownership Documentation: Reviewing Commissioning Certificates, Joint Meter Readings, Power Purchase Agreement, to verify Som Shiva Impex Ltd. as the legitimate owner of the solar power project, confirming their authority to implement and benefit from carbon credits.</p> <p>Communication Verification: Ensuring clear and transparent communication channels between the project owner, and stakeholders involved in the carbon credit verification process, facilitating information exchange and clarifying responsibilities.</p> <p>Verification of Project Representation: Validating that Som Shiva Impex Ltd. accurately represents the project details, including its scope, technology used, and intended environmental benefits, aligning with AMS-I.D. methodology version 18 and UCR Protocol requirements.</p> <p>Compliance with Legal and Regulatory Requirements: Confirming adherence to relevant legal and regulatory frameworks governing renewable energy projects and carbon credit issuance, enhancing the project's credibility and eligibility.</p> <p>Public Records Check: Conducting checks on publicly available databases or registries to validate the legal status and ownership details of the project owner.</p>
Findings	<p>The findings confirm the accurate identification of the project owner through examination of legal documents and direct communication. Clear lines of communication have been</p>

	established, facilitating effective interaction between the project owner and verification team. Stakeholder consultation further validates the project owner's identity, ensuring transparency and accountability throughout the verification process.
Conclusion	It is concluded that the project owner's identification has been accurately verified through multiple channels, including documentation review, direct communication, and stakeholder consultation. Clear and effective lines of communication have been established, fostering transparency and facilitating seamless interaction between the project owner and the verification team. Overall, the verification process has ensured confidence in the project owner's identity and commitment to fulfilling verification requirements.

D.7. Positive Social Impact

Means of Project Verification	The project provided temporary employment to local people during its installation and commissioning phases. Additionally, after commissioning, some individuals were employed permanently, resulting in social and financial benefits for the local community. Overall, the project implementation has had a positive social impact on the surrounding area.
Findings	Upon verification the project activity reflects a positive social impact on the surrounding community, reflecting well-rounded sustainability efforts beyond environmental considerations.
Conclusion	In conclusion, the project's implementation has positively impacted the surrounding area by providing temporary employment during installation and commissioning, followed by creating permanent jobs post-commissioning.

	<p>These employment opportunities have not only supported the local community economically but also contributed to its social fabric. The project's overall contribution to local employment and economic stability underscores its positive social impact, aligning with sustainable development goals beyond environmental considerations.</p>
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Sustainable development aspects (if any)

<p>Means of Project Verification</p>	<p>GHG Emission Reductions: Verify the project's effectiveness in reducing GHG emissions by displacing fossil fuel-based grid electricity with renewable solar PV technology.</p> <p>Alignment with SDG Goal 13 (Climate Action): Ensure the project contributes to mitigating climate change by adhering to rigorous emission reduction standards and methodologies.</p> <p>Affordable and Clean Energy: Independently validate data on electricity generation from solar PV systems to confirm the project's contribution to providing affordable and clean energy, aligning with SDG Goal 7.</p> <p>Social Impact Verification: Assess the project's impact on local employment during installation and commissioning phases and verify sustained economic benefits post-commissioning to support SDG Goal 8 (Decent Work and Economic Growth).</p> <p>Overall Sustainable Development Contribution: Ensure the project's activities and outcomes promote sustainable development objectives by reducing reliance on fossil fuels, supporting local economies, and contributing positively to environmental stewardship and social well-being.</p>

Findings	<p>Upon Verification, the findings on sustainable development aspects indicate that the project significantly contributes to SDG 13 by reducing GHG emissions and aiding climate action, to SDG 7 by supplying clean and reliable electricity to the grid, and to SDG 8 by creating local employment opportunities and promoting economic growth. The project ensures positive social and environmental impacts through effective stakeholder engagement and sustainable practices, and its alignment with AMS-I.D. methodology and UCR Protocol confirms its contributions to sustainable development, supporting its eligibility for carbon credits.</p>
Conclusion	<p>In conclusion the project significantly advances SDG 13 by reducing GHG emissions and aiding climate action, SDG 7 by providing clean, reliable electricity, and SDG 8 by generating local employment and promoting economic growth. The project's compliance with AMS-I.D. methodology and UCR Protocol, alongside its effective stakeholder engagement and sustainable practices, confirms its substantial contributions to these SDGs and supports its eligibility for carbon credits.</p>

Section E. Internal quality control

During the verification of this project, internal quality control measures were meticulously implemented throughout the verification process to guarantee its accuracy and reliability. This involved regular internal reviews of verification procedures, documentation, and reports to promptly address any errors or discrepancies. Verification staff received ongoing training to maintain their proficiency in conducting verifications efficiently. Standard Operating Procedures (SOPs) were established to provide clear guidance on data collection, analysis, and reporting, ensuring consistency and adherence to best practices. Robust documentation management practices were adopted to maintain transparent records of verification activities, including data sources and methodologies. Peer reviews and discussions among verification team members were facilitated to validate findings and ensure agreement on conclusions. Continuous improvement processes were instituted to assess verification practices, identify areas for improvement, and enhance overall performance over time."

Section F. Project Verification opinion

The GHG emission reductions were calculated based on UCR Protocols which draws reference from, CDM UNFCCC Methodology, AMS-I.D.: "Grid connected renewable electricity generation", version 18 and Standardized Methodology is Baseline: UCR Protocol Emission Factor for 2.107 MW Bundled Solar Power Project by M/s. Som Shiva Impex Ltd., Gujarat, India. The verification was done remotely by way of video calls / verification, phone calls and submission of documents for verification through emails.

SQAC is able to certify that the Emission reductions from 2.107 MW Bundled Solar Power Project by M/s. Som Shiva Impex Ltd., Gujarat, India, (UCR ID – 433) for the period **01/01/2013 to 31/12/2023** amounts to **24,166 CoUs (24,166 tCO₂eq)**

Appendix 1. Abbreviations

Abbreviations	Full texts
UCR	Universal Carbon Registry
PP/PO	Project Proponent / Project Owner
PA	Project Aggregator
PPA	Power Purchase Agreement
ER	Emission Reduction
COUs	Carbon offset Units.
tCO ₂ e	Tons of Carbon Dioxide Equivalent
CDM	Clean Development Mechanism
SDG	Sustainable Development Goal
CAR	Corrective Action Request

CR	Clarification Request
FAR	Forward Action Request
GHG	Green House Gas
MR	Monitoring report
PCN	Project Concept Note
VR	Verification Report
VS	Verification Statement
COD	Commercial Operation Date

Appendix 2. Competence of team members and technical reviewers

Sr. No.	Role	Name	Education Qualification	Related Experience
1.	Team Leader / Lead Verifier / Validator	Santosh Nair	BE (Chemical) Lead Auditor in ISO 9001,14001, 45001,13485,22301,22000,27001,14064-1,2,3	Carbon Verifier for all major sectors such as Wind, Solar, Hydro, Biomass, Biogas, Waste Heat Recovery, Biofuel, etc.
2.	Technical reviewer	Praful Shinganapurkar	BE (Mechanical) Certified Energy Auditor Lead Auditor in ISO 9001,14001 & 45001	Carbon Verifier for all major sectors such as Wind, Solar, Hydro, Biomass, Biogas, Waste Heat Recovery, Biofuel, etc.

Appendix 3. Document reviewed or referenced

Sr. No	Author	Title	Provider/Originator
1	Maverik Incorporation	Project Concept Note (PCN)	Maverik Incorporation
2	Maverik Incorporation	Monitoring Report (MR)	Maverik Incorporation
3	Maverik Incorporation	Emission Reduction Calculation Sheet	Maverik Incorporation
4	Solarsis	Invoice for Solar Pannel	Solar Integration Systems India Pvt Ltd.
5	Canadian Solar International Ltd	Commercial Invoice	Canadian Solar International Ltd.
6	CPIC (China Pacific Property Insurance Co Ltd.	Cargo Transportation of Insurance Policy	Canadian Solar International Ltd.
7	Gujarat Energy	Commissioning	Gujarat Energy Development

	Development Agency (GEDA)	Certificate	Agency
8	Drashta Power Consultants Pvt Ltd.	Tax Invoice for solar PV Modules	Drashta Power Consultants Pvt Ltd.
9	Gujarat Energy Transmission Corporation Ltd	State Energy Accounting	Maverik Incorporation
10	Uttar Gujarat Vij Company Ltd.	Joint Meter Reading	Maverik Incorporation

Appendix 4. Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

CL ID	00	Section no.		Date: DD/MM/YYYY
Description of CL				
<i>n/a</i>				
Project Owner's response				Date: DD/MM/YYYY
<i>n/a</i>				
Documentation provided by Project Owner				
UCR Project Verifier assessment				Date: DD/MM/YYYY
<i>n/a</i>				

Table 2. CARs from this Project Verification

CAR ID	00	Section no.		Date: DD/MM/YYYY
Description of CAR				
<i>n/a</i>				
Project Owner's response				Date: DD/MM/YYYY
<i>n/a</i>				
Documentation provided by Project Owner				
UCR Project Verifier assessment				Date: DD/MM/YYYY
<i>n/a</i>				

Table 3. FARs from this Project Verification

FAR ID	00	Section no.	Date: DD/MM/YYYY
Description of FAR			
n/a			
Project Owner's response			Date: DD/MM/YYYY
n/a			
Documentation provided by Project Owner			
UCR Project Verifier assessment			Date: DD/MM/YYYY
n/a			

GEDA
Gujarat Energy Development Agency
(A Government of Gujarat Organisation)

Ref: GEDA/Solar/Som Shiva/2016/01/ 31 & 5 Date: February 6, 2016

CERTIFICATE OF COMMISSIONING

This is to certify that **M/s. Som Shiva (Impex) Ltd.**, at Village- Savda Taluka- Dasada, Dist. – Surendranagar, have commissioned 1.1 MW capacity (CPP) solar photovoltaic power project consisting of new solar photovoltaic modules and inverters as per the details of date of commissioning given below:

Details of SPV modules and inverters:

Type of solar photovoltaic modules	Poly Crystalline & Thin film
Make of Solar photovoltaic modules	Canadian Solar & Abound Solar
Capacity of each photovoltaic modules	235W & 65W
Total number of photovoltaic modules	2368 & 7776
Type of inverters	Central
Make of inverters	Power One
Capacity of each inverters	500 kW
Total number of inverters	2
Total Capacity of Solar Power Project	1.1 MW

Details of site location:

Village	Taluka	District	Revenue survey numbers
Savda	Dasada	Surendranagar	305

This 1.1 MW solar power project is connected to 11 kV Overhead transmission line. The 11 kV Overhead transmission line with all equipment was completed and connected at 66 KV Padli Substation. The Solar Power Plant of 1.1 MW was commissioned on 29th January, 2016.

Details of Electricity generation for purpose of commissioning of the project:

No. of PV module (Nos.)	Capacity of module (W)	Capacity of project MW	Date of commissioning	Time (Hrs)		Meter (kWh)		Differ ence	M.F	Net generation kWh
				From	To	Initial	Final			
10,344	235 & 65	1.1	29/01/2016	16:50	18:00	45.284	45.355	0.071	2000	142
Total										142

For Gujarat Energy Development Agency,
(S.B.PATHI)
DY.DIRECTOR

Copy to: (1) Chief Engineer, State Load Dispatch Centre, 132 kV Gotri Sub Station Compound, Near TB Hospital, Gotri Road, Vadodra-390 021

(2) Chief Engineer (Project), Paschim Gujarat Vij Company Limited (PGVCL), Off. Nana Mava Main Road, Laxminagar, Rajkot - 360 004

Plot No. 10, 11 & 12, Gandhinagar, Sector - 11, Gandhinagar - 382 017 (Gandhinagar), India
Ph : 079-232251-54 Fax : 079-23225150/51/52/53/54 e-mail : director@geda.org.in www.geda.gujarat.gov.in

Gujarat Energy Development Agency
(A Government of Gujarat Organisation)

Ref No: GEDA/Solar/Som Shiva/2011-12/ 36 & 8 Date : 12/1/2012

CERTIFICATE OF COMMISSIONING

This is to certify that **M/s Som Shiva (Impex) Ltd.**, 301, Iscon Mall, above Star India Bazar, Satellite Road, Ahmedabad -380015 have commissioned 1.007 MW (DC) capacity Solar Photovoltaic Power Project consisting of new Solar Photovoltaic modules and inverters as per the details and date of commissioning given below.

Details of SPV modules and inverters:

Type of Solar Photovoltaic modules	Thin Film			
Make of Solar Photovoltaic modules	Abound Solar			
Models of PV modules	AB1-62B,	AB1-65B,	AB1-67B,	AB1-70B
Capacity of each Photovoltaic modules (Watt)	62.5	65.0	67.5	70.0
Total numbers of photovoltaic modules	4050	9072	1998	432
Type of Inverters	Central			
Make of Inverters	SMA			
Capacity of each inverters	500 kW			
Total number of inverters	2			
Total capacity of Solar Power Project	1.007 MW(DC)			

Details of site location:

Village	Taluka	District	Revenue survey number
Savda	Dasada	Surendranagar	305

This 1.007MW (DC) solar Power project is connected through 11 kV transmission line to 66 kV Padli Sub Station.

Details of Electricity generation for purpose of commissioning of the project:

No. of PV module (Nos.)	Capacity of module (W)	Capacity of project MW(DC)	Date of commissioning	Time (Hrs)		Meter(kWh)		Differ ence	M.F	Net generation kWh
				From p.m	To p.m	Initial	Final			
62.5	4050	1.007	30/12/2011	12:20	2:00	1063.2	1071	7.8	10	78
65.0	9072									
67.5	1998									
70.0	432									

For Gujarat Energy Development Agency,
(S.B.PATHI)
Dy.Director (I/C)

CC. to : GM(Commerce), GUVNL, Race Course, Baroda.

INVOICE				
SOLARSIS Solar Integration Systems India Pvt Ltd 18 Labs Centre, Software Units Layout, Madhapur, Hyderabad - 500 081 Ph.: +91 40 30484611, Fax: +91 40 3048 4445				
Buyer: Som Shiva (Impex) Ltd Plot No.221/2 & 224/4 Opp. Asian tubes, VII.Indrad. Tal.: Kadi Dist. Mehsana, (N.G.) Gujarat, India. IEC No: 0895007274		Invoice No.: SSIL/PO/11-12/001 Date: 22-07-2011 Order Ref.: SSIL/SOLAR/PO/11-12/001 Date: 06-04-2011 TIN No.: 28569648507 IEC No: 0906006198		
Inland Letter of Credit No: 0150ILCIS0002911 Inland Letter of Credit date: 4 th July, 2011				
S.No	Description	Qty	Price/watt (INR)	Amount (INR)
01	Abound Solar 67.5 Wp cadmium Telluride based Thin Film Solar PV Modules	50	-	1,96,758.00
02	Abound Solar 65 Wp cadmium Telluride based Thin Film Solar PV Modules	4,850	-	1,87,34,001.00
03	Abound Solar 70 Wp cadmium Telluride based Thin Film Solar PV Modules	450	-	18,82,314.00
Total Amount				2,08,13,073.00
In words: Rupees Two Crores Eight Lakhs Thirteen Thousand and Seventy Three Only				
Declaration: Certified that particulars given are true and correct amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer. Goods once sold will not be taken back or exchanged. All disputes are subject to HYDERABAD jurisdiction only. Interest @ 18% will be charged for the overdue period.				
For Solar Integration Systems India Pvt Ltd G. Ramesh Babu Authorized Signatory				

INVOICE				
SOLARSIS Solar Integration Systems India Pvt Ltd 18 Labs Centre, Software Units Layout, Madhapur, Hyderabad - 500 081 Ph.: +91 40 30484611, Fax: +91 40 3048 4445				
Buyer: Som Shiva (Impex) Ltd Plot No.221/2 & 224/4 Opp. Asian tubes, VII.Indrad. Tal.: Kadi Dist. Mehsana, (N.G.) Gujarat, India. IEC No: 0895007274		Invoice No.: SSIL/PO/11-12/001 Date: 22-07-2011 Order Ref.: SSIL/SOLAR/PO/11-12/001 Date: 06-04-2011 TIN No.: 28569648507 IEC No: 0906006198		
Inland Letter of Credit No: 0150ILCIS0002911 Inland Letter of Credit date: 4 th July, 2011				
S.No	Description	Qty	Price/watt (INR)	Amount (INR)
01	Abound Solar 62.5 Wp cadmium Telluride based Thin Film Solar PV Modules	4,050	-	1,49,39,000.00
02	Abound Solar 65 Wp cadmium Telluride based Thin Film Solar PV Modules	2,850	-	1,10,08,640.00
03	Abound Solar 67.5 Wp cadmium Telluride based Thin Film Solar PV Modules	2,000	-	78,70,302.00
Total Amount				3,38,17,942.00
Less: Advance @15% of PO value Received on 13.04.2011				89,76,762.00
Balance amount				2,48,41,180.00
In words: Rupees Two Crores Forty Eight Lakhs Forty One Thousand and One Hundred Eighty Only				
Declaration: Certified that particulars given are true and correct amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer. Goods once sold will not be taken back or exchanged. All disputes are subject to HYDERABAD jurisdiction only. Interest @ 18% will be charged for the overdue period.				
For Solar Integration Systems India Pvt Ltd G. Ramesh Babu Authorized Signatory				

INVOICE				
SOLARSIS Solar Integration Systems India Pvt Ltd 18 Labs Centre, Software Units Layout, Madhapur, Hyderabad - 500 081 Ph.: +91 40 30484611, Fax: +91 40 3048 4445				
Buyer: Som Shiva (Impex) Ltd Plot No.221/2 & 224/4 Opp. Asian tubes, VII.Indrad. Tal.: Kadi Dist. Mehsana, (N.G.) Gujarat, India. IEC No: 0895007274		Invoice No.: SSIL/PO/11-12/001 Date: 22-07-2011 Order Ref.: SSIL/SOLAR/PO/11-12/001 Date: 06-04-2011 TIN No.: 28569648507 IEC No: 0906006198		
Inland Letter of Credit No: 0150ILCIS0002911 Inland Letter of Credit date: 4 th July, 2011				
S.No	Description	Qty	Price/watt (INR)	Amount (INR)
01	Abound Solar 65 Wp cadmium Telluride based Thin Film Solar PV Modules	1,350	-	52,14,065.00
Total Amount				52,14,065.00
In words: Rupees Fifty Two Lakhs Fourteen Thousand and Sixty Five Only				
Declaration: Certified that particulars given are true and correct amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer. Goods once sold will not be taken back or exchanged. All disputes are subject to HYDERABAD jurisdiction only. Interest @ 18% will be charged for the overdue period.				
For Solar Integration Systems India Pvt Ltd G. Ramesh Babu Authorized Signatory				

COMMERCIAL INVOICE						
CanadianSolar Page 1 of 1 Original						
Bill To: Som Shiva (Impex) Limited 301, LACON Mall, Above Star India Bazar, Satellite Road, Ahmedabad 380015 Gujarat			Invoice No.: HKCS90039034 Invoice Date: 2015/06/11 Order No.: SSIL/DCPL/0.6/1 Order Date: 2015/04/07 LC No.: Delivery: Incoterms: CIF Mumbai (Incoterms 2010) B/L No.: CMBL1506-0226 B/L Date: 2015/06/11 Customs code: 85414011 Currency: USD			
Ship To: Mumbai			Ship To: Mumbai			
Ship To: Mumbai			Ship To: Mumbai			
Description of Goods	Job Number	Container No.	Quantity (KG)	Quantity (PCS)	Unit Price / (RS)	Amount
255 0560-P_Standard_VDR	25040400350	SCSU8673796	104,040	408	0.55	57,222.00
				104,040	408	Subtotal: 57,222.00
Payment Term				0.00 %Taxes: 0		
100% payment in advance				shipping and handling: 0.00		
				Invoice Amount: 57,222.00		
				100.00% Down payment: 57,222.00		
				Total Amount Due: 0.00		
BENEFICIARY BANK DETAILS: BENEFICIARY BANK: BOC No.13 Haiyu Road (N.), Changshu, Jiangsu Prov., China SWIFT CODE: BOCCHN33 BENEFICIARY ACCOUNT NO: KRAA7805819151 BENEFICIARY NAME: Canadian Solar International Limited			Canadian Solar International Limited Unit 1520, 15/F, Tower 2, Grand Century Place CHANGSHU, 383 Prince Edward Road West P.R. CHINA, 215562 Hongkong, Kowloon, Hong Kong Tel: 0086-512-52477677 FXR:			
For and on behalf of Canadian Solar International Limited Doris Authorized Signatory						

