



SOLAR POWER PROJECT BY MYTRAH ENERGY INDIA PRIVATE LIMITED



Document Prepared By

LGAI Technological Center S.A. (Applus+ Certification)

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Prepared By	LGAI Technological Center, S.A. (Applus+ Certification)
Contact	Campus UAB – Ronda de la Font del Carme, s/n 08193 Bellaterra – Barcelona Spain) Tel: +34 93 567 20 08 Fax: +34 93 567 20 01 www.appluscertification.com agustin.calle@applus.com

	carla.debat@applus.com
Approved By	LGA Technological Center S.A. (Applus+ Certification) VVB Technical Manager – Mr. Agustín Calle de Miguel
Work Carried Out By	Dr. Atul Takarkhede - Lead Auditor / Technical Expert

Summary:

Verification purpose: LGA Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed/2/ by “Mytrah Energy India Private Limited” to perform the 5th verification of the “Solar Power Project by Mytrah Energy India Private Limited” (VCS ID 1784)^{4/}. The main purpose of this verification activity is to have an independent third party for the assessment of the project design, monitoring report to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements.

The purpose of the project activities to generate energy electricity by the utilization of solar energy and further selling the generated energy to the Indian grid. In this process there is no consumption of any fossil fuel and hence it does not lead to any greenhouse gas emissions. Thus, electricity would be generated through sustainable means without causing any negative impact on the environment.

Start date of the project activity is the 19-June-2017 (As per earliest date of commissioning of first Solar plant was commissioned under the Project activity)^{01/}. The monitoring period for this VCS verification is 01-March-2022 to 31-March-2022 (including both days) and the project activity achieved 58,805 tCO_{2e} emission reductions during this monitoring period thereon displaced 62,773 MWh amount of electricity from the generation-mix of power plants connected to the Indian Grid, which is mainly dominated by thermal/fossil fuel-based power plant.

The scope of the verification is the independent and objective review of the Monitoring Report (MR)^{6/}. The MR is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board and VCS executive board, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM validation and verification standard for project activities, version 03.0/^{16/}, review against registered joint VCS PD & MR/^{4/} and Final Validation report, VCS program guideline Version 4.2/^{10/} and VCS Standard Version 4.3/^{10/}

A risk-based approach has been followed to perform this verification activity. In the course of verification, 02 Corrective Action request (CAR) and 00 Clarification Requests (CLs) were raised and successfully closed. No FAR was raised during this verification. The review of the Monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and PP have provided LGA Technological Center S.A. (Applus+ Certification) with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

The VVB has employed a risk-based approach to assess the completeness and accuracy of the claims and conservativeness of the assumptions in the MR. The main focus of the VVB is to identify the significant risks for the project implementation and the generation of VCU. The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring report combined.

The only purpose of the verification is its usage during the issuance process as part of the VCS project cycle. Therefore, LGAI Technological Center S.A. (Applus+ Certification) can't be held liable by any party for decisions made or not made based on the verification opinion, which will go beyond that purpose.

The verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. No sampling procedure applied for document verifications. The entire documents checked/verification conducted to arrive at positive verification conclusions.

CONTENTS

1	Introduction	6
1.1	Objective.....	6
1.2	Scope and Criteria	6
1.3	Level of Assurance.....	7
1.4	Summary Description of the Project	7
2	Verification Process.....	9
2.1	Method and Criteria.....	9
2.2	Document Review	11
2.3	Interviews.....	11
2.4	Site Inspections.....	14
2.5	Resolution of Findings	14
2.6	Eligibility for Validation Activities	15
3	Validation Findings.....	15
3.1	Participation under Other GHG Programs	15
3.2	Methodology Deviations.....	15
3.3	Project Description Deviations.....	16
3.4	Grouped Project	17
4	Verification Findings.....	17
4.1	Project Implementation Status	17
4.2	Safeguards	19
4.3	AFOLU-Specific Safeguards	20
4.4	Accuracy of GHG Emission Reduction and Removal Calculations	20
4.5	Quality of Evidence to Determine GHG Emission Reductions and Removals	23
4.6	Non-Permanence Risk Analysis.....	24
5	VERIFICATION CONCLUSION.....	25
	APPENDIX 1: Documents Reviewed or Referenced (Verification)	26
	APPENDIX 2: CORRECTIVE ACTION REQUESTS, CLARIFICATION REQUESTS AND FORWARD ACTION REQUESTS (CAR/CL/FAR)	27
	APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS.....	29

APPENDIX 4: ABBREVIATIONS.....	30
APPENDIX 5: CALIBRATION DETAILS	30

1 INTRODUCTION

1.1 Objective

LGA Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “Mytrah Energy India Private Limited” to perform the 5th periodic verification of the “Solar Power Project by Mytrah Energy India Private Limited” under VCS guideline Version 4.2 and VCS standard Version 4.3. The objective of this verification activity is to have an independent third party for the assessment of the project design, Monitoring Report and Final Verification report and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular;

- The project's baseline is assessed against ACM0002 of version 19.0/^{20/}
- The project's monitoring plan is assessed against “ACM0002 of version 19.0/^{20/}
- the projects compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS guideline Version 4.2/^{10/} and standard Version 4.3/^{10/}
- CDM validation and verification standard for project activities, Version 03.0/^{16/}
- VCS program guideline v. 4.2/^{10/}
- VCS standard v. 4.3/^{10/}

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 emission reductions (VCUs).

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR)/^{6/} prepared as per the registered joint VCS PD & MR/^{4/} and registered approved methodology ACM0002 of version 19.0/^{20/}. The MR is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board and VCS standard Version 4.3/^{10/} and guideline Version 4.2/^{10/}, including the approved baseline and monitoring methodology ACM0002 of version 19.0/^{20/}. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0/^{16/} and VCS program guideline Version 4.2/^{10/} and VCS Standard Version 4.3/^{10/}

The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the Monitoring report. In line with Guidelines for Application of materiality in verifications, 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. It follows the paper trail back to the raw data such as meter reading records and invoices. There are no material errors, overestimation of ER, omission or misstatement. The verification team has reviewed all the documents like commissioning certificates^{/1/}, technical specification^{/3/}, O&M practices, JMR^{/11/}, invoices^{/11/}, grievance register^{/15/} etc.

1.3 Level of Assurance

Applus + Certification has planned and performed the verification by obtaining evidence and other information and explanations that VVB considers necessary to give reasonable assurance that reported estimated GHG emission reductions are fairly stated. All documentary evidences were checked, Onsite visit was conducted to arrive at a verification conclusion by the VVB.

In our opinion, the estimated GHG emissions reductions were calculated correctly on the basis of the approved baseline and monitoring methodology “ACM0002 of version 19.0”^{/20/} and the VCS Standard Version 4.3^{/10/}

1.4 Summary Description of the Project

The project activity is a solar-based power generation project. The project activity involves installation of 372 MW solar project in different states of India. The details of the SPVs for the project and their location of installation are mentioned in the table below:

Sl. No	Name of SPVs	Capacity (MW)	COD	Latitude (N)	Longitude (E)	Site	State
1	Mytrah Abhinav Power Pvt Ltd	8 MW	30-June-2017	16° 41.321'0"	78° 10'33.12"	Thimajipet	Telangana
		8 MW	19-July-2017	17° 18.134'0"	79° 30.879'0"	Arvapally	
		15 MW	05-December-2017	18° 16'12.0"	78° 27'40.26"	Domakonda	
		11 MW	19-August-2017	15° 55' 2"	77° 57' 47"	Alampur	
		15 MW	21-August-2017	16° 15' 59"	77° 46' 59"	Gadwal	
		15 MW	02-March-2018	17° 19' 16"	77° 36' 42"	Tandur	
		15 MW	27-February-2018	16° 29'21.89"	78° 26' 1.24"	Nagarkurnool	
2	Mytrah Adarsh	15 MW	05-December-2017	18° 26'22.67 52"	78° 23'44.106 0"	Reddypet	Telangana

Sl. No	Name of SPVs	Capacity (MW)	COD	Latitude (N)	Longitude (E)	Site	State
	Power Pvt Ltd	15 MW	22-November-2017	17°56'20.3604"	78°32'07.1700"	Chegunta	
		15 MW	23-October-2017	17°45'06.0012"	78°33'01.0008"	Thunkibollaram	
		15 MW	08-November-2017	17°27'24.2064"	79°38'15.0180"	Tungathurthy	
		15 MW	25-September-2017	16°41'56.6880"	78°48'22.2480"	Guntipally	
		15 MW	23-May-2018	18°10'39.50"	79°02'04.8804"	Shanigaram	
3	Mytrah Agriya Power Pvt Ltd	50 MW	25 MW on 22-November-2018	18°23'03.072"	78°16'11.936"	Kamareddy	Telangana
			25 MW on 26-November-2018				
4	Mytrah Akaash Power Pvt Ltd	50 MW	12.5 MW on 16-March-2018	16°46.380'0"	78°52.095'0"	K.M.Pally	Telangana
			17.5 MW on 12-April-2018				
			20 MW on 22-November-2018				
5	Mytrah Aadhya Power Pvt Ltd	25 MW	19-June-2017	29°52'30.00"	75°40'34.68"	Bareta	Punjab
		25 MW	19-June-2017	29°50'38.40"	75°50'38.40"	Balran	Punjab
6.	Mytrah Advait	15 MW	09-February-2018	16° 0' 0.00"	76° 06' 0.00"	Hunagund	Karnataka

Sl. No	Name of SPVs	Capacity (MW)	COD	Latitude (N)	Longitude (E)	Site	State
	Power Pvt Ltd	15 MW	08-February-2018	17° 0' 0.00"	76° 12' 0.00"	Sindagi	
7.	Mytrah Akshaya Energy Pvt Ltd	15 MW	23-January-2018	16° 24' 0.0"	74° 54' 0.00"	Raibagh	Karnataka

The monitoring period this VCS verification covered from 01-March-2022 to 31-March-2022, (inclusive of both dates) and the project activity achieved 58,805 tCO₂e emission reductions during this monitoring period.

VVB team checked the Commissioning status of the project activity with the commissioning Certificates and found correct. The project is implemented as per the description in the registered joint VCS PD & MR. No event observed during the current monitoring period which can alter or deviate from the methodology requirement.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification Process: The project assessment is based on the “CDM validation and verification standard for project activities, Version 03.0^{16/} and “VCS standard Version 4.3^{10/}, program guideline Version 4.2^{10/}” and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed.

Once the project is received by the VVB team, the members of the VVB team carried out: -

1. A desk review of the Monitoring report^{16/} against the registered join VCS PD & MR^{04/} and final validation report^{17/};
2. Onsite audit and site visit;
3. The resolution of outstanding issues and the issuance of the final verification report and opinion.

The prepared verification report and other supporting documents then undergo an internal quality control at the HQ (Accredited office) before being submitted to the VCS executive board.

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced. Applus+ Certification has developed a specific checklist customized for the project. The checklist demonstrates, in a transparent manner, the project

criteria (requirements), discussion on each criterion by the VVB team, and the results from validating the identified criteria.

Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification as composed a project VVB team in accordance with the appointment rules in the internal Quality Management System of Applus+ certification. The composition of audit team shall be approved by the Applus+ Certification ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the VVB team.

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Dr. Atul Takarkhede	LA/TE	YES	YES	NA	YES
Mr. Srikanth Meesa	TR	YES	YES	NA	NA

The detail regarding the VVB team is provided below in this report as Appendix 3

Document review

The Monitoring report version 01/06/ submitted by the PP was reviewed against the approved methodology/^{20/}, registered join VCS PD & MR & MR/^{04/}, final validation report and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a cross-check between information provided and information from other sources has been done. A complete list of all documents and evidence material reviewed is included in this report below in Appendix 1.

Site Visit

A Site visit was conducted by Applus+ Certification. Audit team performed onsite audit with project stakeholders to confirm selected information mentioned in monitoring report and to resolve issues identified in the document review. The detail is provided in this report.

Resolution of Clarification and Corrective Action Request

The objective of this phase of the Verification was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for Applus+

Certification positive conclusion on the Monitoring report. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the verification process, the concerns raised and responses given are summarized below in the Appendix 2.

The final MR Version 03/06/ submitted by PP serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Internal quality control

As final step of a verification of the final documentation including the verification report and the checklist have to undergo an internal quality control by the technical review committee, i.e., each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the VVB team approval can only be given by the other one to avoid any conflict of Interest.

After confirmation of the PP the positive verification opinion and relevant documents are submitted to the VCS board through the VCS web-platform.

2.2 Document Review

The details of the document observed during the verification process are listed below in Appendix 1 of this report

2.3 Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Kure	Mr. Rahul	PP representative	Telangana: - 06/07/2022 Karnataka: - 04/07/2022 Punjab: - 15/07/2022	Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism, Management practices, data storage, QA/QC	Dr. Atul Takarkhede (Team Leader)
2.	Babu	Mr. R.	O&M manager, Telangana State			
3.	Kishore.G	Mr. Siva	Operation in charge, Telangana State			
4.	Singh	Mr. Pushpende r	Operation State in charge, Punjab State			

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
5.	KV	Mr. Balraj	Operations State in charge, Karnataka state			
6.	Sharma	Mrs. Nitya	Infinite Environmental Solutions LLP		GHG calculations, MR and ER preparation, Data collection, data storage, QA/QC	
7.	Reddy	Mr. Suman	Local Stakeholder (Telangana)		Local Stakeholder consultation	
8.	Rao	Mrs. Subba	Local Stakeholder (Telangana)			
9.	Subrama niam	Mr. K.	Local Stakeholder (Telangana)			
10.	Gawda	Mr. Karthik	Local Stakeholder (Karnataka)			
11.	Bhatia	Mr. Jaspal	Local Stakeholder (Punjab)			

As referred above, the objective of the interview was to verify the following issues:

- Confirm the implementation and operation of the project in line with VCS PD & MR: the project activity is implemented as per the registered PD and there is no change in capacity or design of the project activity since Commissioning. Same was confirmed from Commissioning certificates, technical specifications of the solar modules, PPA, interviews with PP/Site in charge and JMR as well as invoices raised by PP towards state utility;
- Review the data flow for generating, aggregating and reporting the monitoring parameters: JMR procedures are followed at the project site in line with the state utility practice and are in line with the registered PD & MR. JMR procedure is confirmed during the interviews with PP and VVB team also checked entire monthly JMRs issued by the state utility for the project activity with the values provided in the ER sheet for the calculations of the emission reductions;
- Confirm the correct implementation of procedures for operations and data collection: during interviews with PP, it was confirmed that implementation of procedures for operations and data collection is in line with registered PD & MR. Service provider is responsible for the operations, maintenance as well as maintaining other technical data of the project activity. Performance and operation data of Solar PV module is controlled and maintained by service provider through the dedicated software and made available to the PP as & when required;

- Cross-check the information provided in the MR documentation with other sources: the information provided in the MR was crosschecked with the Commissioning certificates, PPA, Calibration certificates and JMRs are issued by Statutory authority and invoices are used for cross-checking;
- Check the monitoring equipment against the requirements of the PD & MR and the approved Methodology, including Calibration, maintenance, etc.: monitoring meters are cross checked with the previous verification reports, interviews with PP, Calibration is checked with the Calibration certificates issued by State Utility authorized third parties;
- Review the calculations and assumptions used to obtain the GHG data and ER: calculation procedures and monthly generation data is checked with JMR and crosschecked with invoices;
- Identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters: during interviews with PP, it was confirmed that quality control and quality assurance procedures are in place. Metering arrangements & JMR procedure is defined and controlled by state utility and PP do not have control on it. VVB team checked all the monthly JMR values as well as crosschecked with the invoices and found that emission reductions are calculated conservatively.

Thus, to verify the implementation of project activity, onsite operation & maintenance, monitoring & management practices; VVB team has conducted onsite visit with onsite in-charge, O&M team and also had a detail discussion with the PP representative and reviewed third party statutory documents i.e. Commissioning certificates, Power Purchase Agreement, Complete set of JMRs covering monitoring period, Invoice (for cross check of Net electricity supplied to the grid as per revised PD),breakdown log, O&M schedule, complaint/feedback register and other relevant records.

After physically interviews with concerned onsite persons, local stakeholders, document reviews & site videos/photographs submitted by PP; VVB team concluded that the project activity is implemented and operated in-line with the registered PD & MR. There is no change in the project design or operation and monitoring practices at site which can alter the applicability of meth or additionality of the project activity. In addition to the interviews with PP, VVB team have checked the Commissioning certificate, PPA and JMRs and found that the project activity is implemented as per the PD, and Monitoring report submitted by the PP for current monitoring period. From review of JMR and invoices VVB team therefore of the opinion that project is implemented as described in the registered PD & MR and there is no change in monitoring practices as well as all monitoring parameters as envisaged in the PD & MR. All the monitored values are supported by the evidences i.e., JMRs and found that information provided in the MR is in line with the submitted evidences. VVB team reviewed all the Calibration certificates and found that monitoring meters are calibrated periodically.

2.4 Site Inspections

Duration of on-site inspection: 04/07/2022(KAR), 06/07/2022(TG) & 15/07/2022 (PB)				
No.	Activity performed on-site	Site location	Date	Team member
1.	VVB team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring. VVB team also checked that whether the monitoring plan as described in the VCS Joint PD & MR is actually practised onsite. Also, VVB team checked any change in host country criteria which may affect the baseline of the project activity.	Telangana (TG), Karnataka (KAR) and Punjab (PB) States of India	04/07/2022 (KAR) 06/07/2022(TG) 15/07/2022 (PB)	Dr. Atul Takarkhede (Team Leader)

2.5 Resolution of Findings

The objective of this phase of the Verification was to resolve the requests for corrective actions and clarification and any other outstanding issues from verification which need to be clarified for Applus+ Certification's positive conclusion on the Monitoring report. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the verification process, the concerns raised and responses given are summarized below in the Appendix 2.

The final MR Version 03⁰⁶/ submitted by PP serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
Project design document and Monitoring report	00	01	00
Description of project activity	0	00	00
Application of selected baseline and monitoring methodology and selected standardized baseline			
Applicability of methodology and standardized baseline	00	00	00
Deviation from methodology	00	00	00
Clarification on applicability of methodology, tool and/or standardized baseline	00	00	00
Project boundary	00	00	00
Establishment and description of baseline scenario	00	00	00
Demonstration of additionality	00	00	00
Emission reductions	00	01	00
Calibration details	00	00	00
Monitoring plan	00	00	00
No Net harm assessment	00	00	00

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
Local stakeholder consultation	00	00	00
Others (please specify	00	00	00
Total	00	02	00

The list of findings and the resolution is presented in Appendix 2 of this report.

2.5.1 Forward Action Requests

This is 5th periodic verification of the project activity and no FAR was raised from validation and previous verification.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as Applus+ Certification holds the accreditation for Validation of projects under this Sectoral Scope.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity has not participated in any other GHG programs. PP has given declaration that the project activity will not claim emission reductions in any other GHG program(i.e., CDM , GS and GCC etc) for the monitoring period claimed in VCS and avoid double counting of the emission reductions.

Verification team has also checked REC India registry and confirms that project activity is not availing any REC benefits¹. Moreover, also checked other GHG program i.e., CDM², GS³ and GCC⁴, hence found that project is not registered under the same.

3.2 Methodology Deviations

This section is not applicable for present verification as no methodology deviation sought during this verification

¹ [Renewable Energy Certificate Registry of INDIA - Registered RE Generator List \(recregistryindia.nic.in\)](http://recregistryindia.nic.in)

² <https://cdm.unfccc.int/Projects/projsearch.html>

³ <https://registry.goldstandard.org/projects>

⁴ https://projects.globalcarboncouncil.com/pages/submitted_projects

3.3 Project Description Deviations

Following deviations are approved during previous verification i.e., 01-June-2021 to 28-February-2022: -

Deviation 1-

The VCS registered Joint PD & MR mentioned that the difference of final value of export and import is used for monthly values of net electricity supplied to the grid by the project activity. However, as per the state government policy of Karnataka 115% transmission losses are accounted in calculation of net electricity supplied to grid by the project activity. The formula used for net electricity calculation is mentioned below:-

EG_{PJ,grid,y} or EG_{PJ,facility,I,y} = Energy export – 115% Of Import Energy

This is the actual practice being followed at the site. The net electricity can be verified from the invoices provided by the PP. Thus deviation is requested to correct project description information. This deviation is permanent in nature.

This deviation is reducing the electricity generation thereby reducing the emission reductions which is conservative. This deviation does not have any impact on the project applicability, baseline scenario, additionality etc.

Deviation 2-

In the Verra Registry, the project proponent is listed as Mytrah Energy (INDIA) Ltd. While during the previous monitoring period, the project proponent has changed its name from "Mytrah Energy (INDIA) Ltd" to "Mytrah Energy India Private Limited". And it is also confirmed from PP that Mytrah Energy India Private Limited is the same legal entity as Mytrah Energy (INDIA) Ltd.

Following deviations are approved during previous verification i.e., 01-June-2021 to 28-February-2022: -

Deviation 3 :-

PP has requested to change other entity mentioned in the section 1.4 of monitoring report for the previous monitoring period i.e. 01-June-2021 to 28-February-2022. The update details of «other entity» is as follows:

Organization name	Infinite Solutions
Role in the Project	Carbon Consultant
Contact person	Richa Thakur
Title	Project Manager
Address	214-215 Milinda Manor, Opp. Next Treasure Island, 2 RNT Marg, Indore- 452001
Telephone	+91-731-4050174

Email	richa@infisolutions.org
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Above requested deviation approved during previous monitoring period does not impact project design, additionality and baseline scenario. Also Verification team verified the above change in other entity with PP Thus was accepted by VVB.

3.4 Grouped Project

This is not a grouped project. Thus, this section is not applicable.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the Site visit, it was concluded that the project is implemented as per the requirement of the registered VCS PD & MR and approved monitoring plan, during the current monitoring period; it was observed that no unforeseen incident/event evolved which can impact the operation of the project activity which was verified from breakdown records. The project undergone continuous operation and only scheduled maintenance is observed as per the manufactures specification which is acceptable to the VVB team and evident from JMRs.

The project activity is a 372 MW Solar Power project and locations of the same are confirmed by the verification team during the Site visit. The Project activity consists of several solar PV modules installed at different states of India (Details provided in above table). SPVs involved in the project activity are the subsidiary companies of Mytrah Energy India private Limited.

Verification team confirmed from the registered joint VCS PD & MR^{4/} and from previous verification reports^{17/} that the location of the project activity including the coordinates is same as mentioned in the registered VCS Joint PD & MR ^{4/}.

VVB team checked the commissioning certificate^{14/} and confirmed that the dates of Commission for the Solar plants are correct. VVB team also conform during site visit with the PPs representatives that there is no change in project design and the project is implemented as per the description provided in the VCS PD & MR. The project boundary includes the electricity generation equipment at the project site, substation and the regional grid (now Indian grid). Connected substations mentioned above are verified during site visit.

VVB team also checked the technical details of the Solar plants installed onsite from documents submitted by PP and previous verification reports. The VVB team confirmed that there is no proposed or actual change to the project design during this monitoring period. The project design as mentioned in the registered join VCS joint PD & MR is implemented and thus the same is acceptable to the VVB team. All required monitoring equipment's and procedures as mentioned in the registered join VCS PD & MR are available and implemented in an appropriate manner.

The organisational role and responsibility as mentioned in the registered joint VCS PD & MR & MR/⁴/ is followed onsite confirmed during site visit. All the emergency preparedness as mentioned in the registered joint VCS PD & MR/⁴/ is followed onsite and no discrepancies were found regarding the same. Meters are calibrated as per calibration frequency in registered VCS Joint PD & MR /⁴/. All the emergency preparedness as mentioned in the registered VCS Joint PD & MR is followed onsite and no discrepancies were found regarding the same. Thus, completeness of the monitoring plan confirmed and there are no any material discrepancies between the actual monitoring system and the plan provided in the registered joint PD& MR.

CAR 01 is raised for the inconsistency with respect to MR template guidelines and CAR 02 is raised for supporting evidences and closed successfully after proper response of PP.

VVB team confirms following during the verification Site visit:

1. Start date of the project activity is 19-June-2017 as mentioned in the registered VCS PD& MR/⁴/.

History of issuance happened for the project activity is as follows: -

S. no	Monitoring period	Verification
1	19-June-2017 to 17-March-2019	1 st Verification
2	18-March-2019 to 31-March-2020	2 nd Verification
3	01-April-2020 to 31-May-2021	3 rd verification
4	01-June-2021 to 28-February-2022	4 th Verification
5	01-March-2022 to 31-March-2022	5 th verification (undergoing)

2. An undertaking letter dated 07-June-2022 has been submitted by PP for no double counting with any other GHG program. PP also has given a written declaration that project has not claimed other form of GHG credit for the concerned monitoring period.
3. VVB team confirms that this is the 5th monitoring under VCS and covers the activity from 01-March-2022 to 31-March-2022 (inclusive of both dates). The project activity adopts renewable crediting period of 10 years period and can be renewed for maximum 2 times. 19-June-2017 is the start date and 18-June-2027 will be end date of the crediting period/⁶/.

The GHG credits from 01-March-2022 to 31-March-2022 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the “No Double Counting”/¹²/.

4. VVB team checked and found that the Project proponent of the project activity mentioned in Section 1.3 of monitoring report is correct/⁶/:
5. VVB team also checked the details of other entity mentioned in Section 1.3 of monitoring report and found correct/⁶/.
6. The quantified emission reduction calculation for the monitoring period is correct and conservative. VVB team also compared actual VCU with the estimated VCU and found that the actual VCU is 58,805 tCO₂e which is 8.44% higher than the estimated emission reductions

54,230 tCO₂e during this monitoring period. Assessment team has checked the PLF breaching values and found that no SPV's PLF is crossing the breaching value as per approved VCS PD & MR. Thus higher PLF is not affecting the additionality of the project. More details about the same are provided below in section 4.4.

Further, in line with VCS standard version 4.3 para 3.16.1, "The project proponent must demonstrate that a project contributes to at least three SDGs by the end of the first monitoring period, and in each subsequent monitoring period.". PP has provided SDG contribution detail achieved by project activity under table 1 of monitoring report. Same is verified by verification team via supporting documents (i.e., Employment declaration and training attendance sheet^{12/}). Found correct and inline with the data mentioned in table 1 of final MR. thus accepted by VVB.

4.2 Safeguards

4.2.1 No Net Harm

No potential environment or socio-economic matter was found during the documents review of VCS Joint PD & MR and grievance register etc. The project is renewable energy project and thus no negative impact observed due to project activity.

The project activity promotes environmental and socio-economic well-being as it results in zero GHG emissions due to installation and operation of clean, renewable energy technology for electricity generation. The report on "Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects" prepared by MNRE dated September 2013⁵. This report clearly mentioned that wind/solar power project activity operations do not result in direct air pollution, noise pollution. Moreover, also as per the Central Pollution Control Board of India notification⁶ wind/solar project falls under White Category and are practically non-polluting.

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration. For ongoing stakeholder's communication, PP have maintained grievance register/^{15/} at the site office. All the stakeholders are happy with the implementation and operation of the project activity and no negative comments envisaged for the project activity. Complaint/suggestion/feedback register is maintained at site as a part of ongoing communication with stakeholders in line with clause 3.16.17 of VCS Standard, ver. 4.3/^{10/} and appropriate actions taken time to time by PP.

VVB team checked the grievance register/^{15/} provided by PP and found that local stakeholders can anytime lodge their grievances if any in the register over the operational life time of the project. During current monitoring period no grievance was received. Thus, VVB team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate.

⁵ <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

⁶ <https://cpcb.nic.in/openpdffile.php?id=TGF0ZXN0RmlsZS9MYXRlc3RfMTE4X0ZpbmFsX0RpcmVjdGlvbnMucGRm>

4.3 AFOLU-Specific Safeguards

This section is not applicable as this project activity is a non-AFOLU project activity.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the VCS Joint PD & MR. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the VCS PD & MR.
Findings	CAR 02 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.
Conclusion	Baseline Emissions: The baseline Emissions for a given year is calculated by multiplying the energy baseline with the grid emission factor. The grid in this case is 'Indian Grid' Formula Used: - $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ Where , BE_y = Baseline Emissions in year y, tCO₂ $EG_{PJ,y}$ = 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 CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (t CO₂/MWh) <u>Ex-ante parameters:</u> The baseline emission factors are taken ex-ante in line with the registered VCS Joint PD & MR as well as cross checked with section validation report and found correct^{4/}. The baseline emission factors are calculated by the Central Electricity Authority, Govt. of India. The values of OM and BM are sourced from the CEA CO₂ Baseline database version 14. The data Combined margin CO₂ emission factor ($EF_{grid,CM,y}$) is equal to 0.9368 tCO₂/MWh. The calculation approach was in line with the VCS PD & MR. Values are as follows: $EF_{grid,OM,y} = 0.9610 \text{ tCO}_2/\text{MWh}$ $EF_{grid,BM,y} = 0.8644 \text{ tCO}_2/\text{MWh}$ $EF_{grid,CM,y} = 0.9368 \text{ tCO}_2/\text{MWh}$ <u>Ex-post parameter:</u> For Karnataka Site:

	EGPJ,grid,y or EGPJ,facility,I,y = Quantity of electricity generated and supplied by the project power plant to the grid = 7522 MWh For Punjab Site: EGPJ,grid,y or EGPJ,facility,I,y = Quantity of electricity generated and supplied by the project power plant to the grid = 8371 MWh For Telangana site: EGPJ,grid,y or EGPJ,facility,I,y = Quantity of electricity generated and supplied by the project power plant to the grid = 46,881 MWh The verification team has checked the entire monthly Credit note/ JMR/Form B reports/^{11/} from respective state electricity board for net electricity generated & supplied to the grid and crosschecked same with the invoices/^{11/} raised by PP towards State Utilities for the monitoring period. EGPJ,y is measured as per below calculation: EGPJ,y= EGPJ,grid,y or EGPJ,facility,I,y (Karnataka + Punjab + Telangana) Where, EGPJ,grid,y or EGPJ,facility,I,y (Karnataka) = Export- 115% * Import EGPJ,grid,y or EGPJ,facility,I,y (Punjab) = EG_{Export} - EG_{Import} EGPJ,grid,y or EGPJ,facility,I,y (Telangana) = EG_{Export} - EG_{Import} All values are found correct as the ER sheet is verified with entire monthly Credit note/ JMR/Form B reports/^{11/} from respective state electricity board for net electricity generated & supplied to the grid and crosschecked same with the invoices. All the parameters are monitored and recorded as per the monitoring plan in the MR. However; PPs have apportioned the values for the whole monitoring period where dates are not matching with JMR cycle for all sites of project activity except for Karnataka sites. Apportioning procedure applied in final emission reduction sheet found inline with procedure mentioned in section 4.3 of VCS approved PD thus accepted. The details of monitoring equipment installed at each SVP are given in appendix 05 below. The calculations/measurement of net electricity supplied to grid is under purview of state electricity board and the PP/Project activity Instance owner has no role on it. PP/Project activity Instance owner gets value of net electricity supplied to grid and hence this parameter is mentioned as a part of monitoring plan The net electricity supplied the grid by the project activity during the monitoring period is 62,773 MWh. The generation values have been cross checked with the invoices and were found few inconsistencies in values of invoices and JMRs respective to each site. Thus, as per conservative approach, minimum value of JMR and invoice
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	is taken for considered under ER calculation in ER sheet. Same is found acceptable by VVB. All relevant monitoring parameters have been verified with regard to the appropriateness of the applied measurement/determination method, the correctness of the values applied for ER calculation^{/7/}, the accuracy, and applied QA/QC measures. Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors. BE_y (baseline emissions), tCO₂e BE_y = 62,773 MWh x 0.9368 tCO₂e/MWh = 58,805tCO₂e (round down values) As per applied methodology ACM0002, version 19.0, the VCS Joint PD & MR, project emission is considered zero as the project activity involved Solar Power generation^{/4/}. PE_y = As per ACM0002 - Version 19.0, all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected. As the project activity involved Solar Power project emissions (PE_y) are taken as zero. Leakage: As per ACM0002 - Version 19.0, Leakage emissions are not considered for the project activity^{/20/}. Hence, ER_y = BE_y – PE_y = 58,805– 0 = 58,805tCO₂e (round down values) Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the registered VCS Joint PD & MR ^{/4/}. VVB team confirmed that the GHG emission reductions and removals have been quantified correctly in line with the registered VCS Joint PD & MR ^{/4/}.
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	The estimated emission reduction achieved from the project activity for the current monitoring period is 54,230 tCO₂e based on the number of days covered during the current monitoring period which comes out to be 31 days. Whereas the actual emission reductions achieved during the current monitoring period are 58,805tCO₂e. The actual VCUs are 8.44% higher than the estimated VCUs. Assessment checked the higher PLF achieved and their respective breaching value as per the approved VCS PD & MR and found that no SPV has crossed the breaching value. Thus, assessment concluded that there is no impact on the additionality of the project activity due to higher PLF achieved by some SPVs. Further, current monitoring period covers only one month specially of Peak Sunlight intensity month. Hence, accepted by assessment team.
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4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	The verification team checked the Calibration details of the monitoring meters with the calibration certificates.
Findings	No Findings were raised.
Conclusion	The verification team checked the break down log for the monitoring period^{/13/}. During the onsite audit and the feeder wise location of the Solar plants is also checked. The metering arrangement is bi-directional energy meters (Main and Check) of accuracy class 0.2s at the respective State Electricity Board (SEBI) sub-stations. These electricity meters are being used by state electricity board for Share certificate statements/JMRs. These meters record several parameters including electricity exported & imported. These electricity meters are being used by state electricity board for entire monthly Credit note/ JMR/Form B reports^{/11/} . The details like make, Serial number, Calibration dates and due dates etc.^{/5/}. are provided in appendix 05 of this report. Verification team confirms that all the energy meters (main and check meter) installed at the substation are of accuracy class of 0.2s and are calibrated as per the calibration frequency mentioned in monitoring plan in VCS PD & MR i.e. The calibration frequency of meters is once in 5 years^{/5/}. No delayed calibrations were observed in the project activity for this monitoring period. All the meters are of same accuracy class i.e., 0.2s as per the requirement of the registered join VCS PD & MR. Interview during Site visit with O&M personnel also confirms the same^{/5/}. The calculation of net electricity supplied to grid is under purview of state electricity board and PP does not have control on it. Calibration details of the monitoring meters checked with calibration certificates submitted by PP and

	found that calibration frequency of 5 years is compiled^{5/}. Thus, no delayed calibration is observed and thus the same is found appropriate. The break down log is checked and there is no major breakdown during the monitoring period. No unforced error observed. No sampling procedure applied for monitoring of the data parameter and entire documents were checked by the VVB team to arrive at positive verification conclusions. The monitoring plan is followed at the project sites. The monitoring meters were calibrated in line with the registered monitoring plan and there was no delay in calibration observed. Thus, VVB team concluded that the evidences are sufficient in quantity, and appropriate for the quality, to determine the GHG reductions and removals. VVB team checked the calculation of estimated VCU vs. Actual VCU. As per the registered VCS PD the amount of VCUs annually is 638,520 tCO₂e. The days involved in present monitoring period are 31. Therefore, on pro-rata basis, the estimated VERs for the monitoring period is 54,230 tCO₂e. Actual VERs obtained for the monitoring period is 58,805tCO₂e and thus the actual VCU is 8.44% higher than the estimated VCU. This variation is majorly due to higher PLF which is a natural phenomenon and beyond the control of the Project Proponent. Moreover, increase in emission reduction does not affect the additionality of the project activity. Hence confirms that increase in VCUs in this monitoring period is acceptable.
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4.6 Non-Permanence Risk Analysis

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
NA	NA	NA	NA	NA

5 VERIFICATION CONCLUSION

Applus+ Certification has been engaged^{/02/} by Mytrah Energy India Private Limited to perform the 5th verification of the “Solar Power Project by Mytrah Energy India Private Limited”.

The project participants are responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project’s monitoring plan in the registered VCS PD/^{4/} and the applied methodology ACM0002 version 19.0/^{20/}

Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. Further, the verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. No sampling procedure applied for document verifications. The entire documents checked/Power plant verification conducted to arrive at positive verification conclusions. The verification team can confirm that:

- the project is operated as planned and described in the project document;
- the monitoring plan is as per the applied methodology;
- the monitoring process in Monitoring Report is as per the registered joint VCS PD & MR/^{4/};
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A Reasonable Level of assurance was achieved as planned, during verification process.
- Verification period: 01-March-2022 to 31-March-2022 (inclusive of both days).

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

Year	Baseline emissions or removals (tCO ₂ e) ⁷	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01-March-2022 to 31-March-2022	58,805	0	0	58,805
Total	58,805 (Round down)	0	0	58,805

⁷Rounddown values

APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

No.	Author	Title	References to the document	Provider
1.	Respective State Utility	Commissioning certificates of the SPVs installed in Karnataka, Punjab and Telangana States of India.	-	PP
2.	Applus	Contract of the project participant with the DOE. Ref. No. A+SH_SYST_TQC_VCS_VER_16122	17-June-2022	PP
3.	NA	The operational lifetime of the project activity from the manufacturer (Technical specifications)	Manufacturer technical specifications	PP
4.	NA	Registered join VCS PD & MR https://registry.terra.org/app/projectDetail/VCS/1784	08-June-2019	PP
5.	Respective state authority	Calibration Certificates of energy meters	-	PP
6.	NA	MR version 01 MR version 02 MR version 03	16-June-2022 18-July-2022 27-July-2022	PP
7.	NA	Emission reduction sheet version 01 Emission reduction sheet version 02 Emission reduction sheet version 03	16-June-2022 18-July-2022 27-July-2022	PP
8.	PP	O & M Agreements	-	PP
9.	SPVs and state board	Power Purchase Agreements	-	PP
10.	NA	Tools/ guidelines used in the project activity - VCS standard Version 4.3 - VCS Program Guide 4.2 - VCS verification report template Version 4.1	UNFCCC CDM/VCS web site	UNFCCC
11.	State Utility for JMR, PP for invoice	Monthly statement- JMR & invoices for the complete monitoring period	-	PP
12.	PP	Declaration regarding no participation in other GHG program for the concerned monitoring period	07-June-2022	PP
13.	PP	Breakdown details for the monitoring period	-	PP
14.	PP	Employment records for plant persons	-	PP

No.	Author	Title	References to the document	Provider
15.	PP	Grievance Register maintained at site	-	PP
16.	UNFCCC	CDM validation and verification standard for project activities, Version 03.0	-	UNFCCC
17.	Applus Certification	Joint Validation and Verification report. Ref. No. 5618	Version 02 13-June-2019	
18.	Applus Certification	Previous Verification Report, Report ID: 6122	16-May-2021	PP
19.	UNFCCC	ACM0002 Grid-connected electricity generation from renewable sources	Version 19.0	UNFCCC
20.	PP	Employment Declaration and Training attendance sheet	-	PP

APPENDIX 2: CORRECTIVE ACTION REQUESTS, CLARIFICATION REQUESTS AND FORWARD ACTION REQUESTS (CAR/CL/FAR)

Table 1. Remaining FAR from validation and/or previous verification

FAR ID	XX	Section no.	E.2	Date : DD/MM/YYYY
Description of FAR				
There is no FAR from the validation/previous verification of the project activity				
Project participant response				Date : DD/MM/YYYY
NA				
Documentation provided by project participant				
NA				
VVB assessment				Date: DD/MM/YYYY
NA				

Table 2. CL from this verification

CL ID		Section no.		Date:
Description of CL				
NA				
Project participant response				Date:
NA				
Documentation provided by project participant				
NA				
VVB assessment				Date:
NA				

Table 3. CAR from this verification:
Project Implementation Status

CAR ID	01	Section no.	4.1	Date: 16-July-2022
Description of CAR				
During review of monitoring report following inconsistencies observed:				
1. Editorial mistakes are observed in the MR submitted by PP. Thus, PP requested to submit corrected MR as per comments provided in monitoring report. Kindly submit.				
Project participant response				Date: 18-July-2022
1. MR version 2.0 is revised as per the comments provided				
Documentation provided by project participant				
Revised MR version 2.0				
VVB assessment				Date: 18-July-2022
1. PP has rectified all editorial mistakes done throughout the monitoring report and submitted revised monitoring report to verification team. thus, accepted and comment is closed.				

CAR ID	02	Section no.	4.4	Date: 16-July-2022
Description of CAR				
Calculation of achieved emission reduction relevant to the current monitoring period is demonstrated by PP in emission reduction sheet. However, during desk review of the same, Verification team observed billing period mentioned is not relevant to the monitoring period. Thus, corrective action sought and also commented in ER sheet.				
Project participant response				Date: 18-July-2022
ER sheet has been revised as per the monitoring period.				
Documentation provided by project participant				
Revised MR Version 2.0 Revised ER sheet Version 2.0				
VVB assessment				Date: 18-July-2022
PP has revised the emission reduction sheet as per the submitted copies of JMR and invoices. Verification team revision made are correct thus accepted and comment is closed.				

Table 4. FAR from this verification

FAR ID	XX	Section No.		Date : DD-Month-YYYY
Description of FAR				
There is no FAR from this verification				
Project participant response				Date : DD-Month-YYYY
NA				
Documentation provided by project participant				
NA				
VVB assessment				Date: DD-Month-YYYY
NA				

APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Lead Auditor/Technical Expert	OR	TAKARKHEDE	ATUL	TQC-Outsourced entity	Yes	Yes	Yes	Yes

Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Technical reviewer (TR) / Technical Expert (TE)	EI	Srikanth	Meesa	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustin	Applus+ Certification

Short CVs of the Team:

- Dr. Atul Takarkhede** is Ph.D. (Environmental Sciences) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical papers related to environmental sciences. He counts with more than 11 years of experience in field of Environmental Auditing, consulting and accreditation. He is an expert in ISO 9001-14001, CO2/GHG Reporting, Carbon Foot Print, Energy, Water and Waste Management reporting for organizations' environmental performance. His professional portfolio is mainly related with carrying out EIA, conducting QA/QC of EIA Reports; conducting environmental/water audits; NABET requirements appliance, functional area expert in Water Pollution & Solid & Hazardous Waste management among others. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. Currently he is associated with True Quality Certifications Private Limited and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes.
- Mr. Srikanth Meesa** is a climate change professional with more than 15 years of experience in the fields of climate change, GHG auditing, carbon footprint assessments, water and energy audits, scope-3 emissions, net zero strategies, sustainability & ESG sectors and water and wastewater treatment sectors. He has completed his masters in Environmental Engineering & Management from I.I.T Delhi and Bachelors in Civil Engineering from Osmania University.

Furthermore, he has extensive experience i.e., more than 14 years on the auditing of CDM, VERRA, GS, JCM projects of various sectoral scopes across the world. He has worked with reputed certification bodies such as TUV NORD, DNVGL, TUV SUD and LR. He also has consulting experience on sustainability reports& road-maps, stakeholder consultation and LCA studies while working at Thinkstep (Now called Sphera). Currently, he is associated with Global Green Solutionz and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes. Mr. Srikanth Meesa is based at Hyderabad, India. Mr. Srikanth Meesa participate as part of the Audit Team as Technical Reviewer for the assessment

APPENDIX 4: ABBREVIATIONS

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CL	Clarification request
CM	Combined Margin
CO ₂	Carbon dioxide
CO _{2e}	Carbon dioxide equivalent
DNA	Designated National Authority
DR	Document Review
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming potential
JMR	Joint Metering Report
PP	Project Participant
SPV	Special Purpose Vehicle
VVB	Validation and Verification body
VCU	Verified Carbon Units
VCS	Verified Carbon Standard

APPENDIX 5: CALIBRATION DETAILS

Name of SPVs	Site	State	Capacity In MW	Meter Details			Accuracy	Date of Calibration	Due date of calibration	New Date of calibration	Due date	Calibration Compliance
				Main, meter Sl. no	Check Meter sl.no	Standby meter sl. no						
Mytrah Advaita Power Private Limited	Hunagund	Karnataka	15	17151028	17151010	-	0.2s	13-July-2018	12-July- 2023	-	-	No delay Observed
	Sindagi		15	17151045	17151050	-	0.2s	03-December-2018	02-December-2023	-	-	No delay Observed
Mytrah Akshaya Energy Private Limited	Raibagh	Karnataka	15	17115537	17115532	-	0.2 s	05-January-2019	04-January-2024	-	-	No delay Observed
Mytrah Aadhya Power Private Limited	Bareta	Punjab	25	PBB4878 0	PBB4878 1	-	0.2s	01-December-2018	30-November-2023	-	-	No delay Observed
	Balran		25	PBB4880 3	PBB4880 2	-	0.2 s	26-November-2018	25-November-2023	-	-	No delay Observed
Mytrah Abhinav Power Private Limited	Thimajipet	Telangana	8	APX0109 9	APX0110 0	APX0 1101	0.2s	14-November-2018	13-November-2023	17-September-2020	16-September-2025	No delay Observed
	Arvapally		8	HT01160 859	HT01160 860	HT01 1608	0.2s	22-January-2019	21-January-2024	18-December-2020	17-December-2025	No delay Observed
	Domakonda		15	TS04282	TS04283	TS04 284	0.2 s	19-February-2018	18-February-2023	17-August-2020	16-March-2025	No delay Observed
	Alampur		11	HT01161 10	HT01161 108	HT01 161109	0.2 s	09-April-2018	08-April-2023	03-December-2021	02-December-2026	No delay Observed
	Gadwal		15	HT01161 111	HT01161 112	HT01 1611	0.2 s	22-February-2019	21-February-2024	12-January-2022	11-January-2027	No delay Observed

Name of SPVs	Site	State	Capacity In MW	Meter Details			Accuracy	Date of Calibration	Due date of calibration	New Date of calibration	Due date	Calibration Compliance
				Main, meter Sl. no	Check Meter sl.no	Standby meter sl. no						
	Tandur		15	2838075	2838076	2838077	0.2 s	04-April-2018	03-April-2023	31-October-2020	30-October-2025	No delay Observed
	Nagarkurnool		15	2831529	2831530	2831	0.2 s	14-May-2018	13-May-2023	06-December-2021	05-December-2026	No delay Observed
Mytrah Adarsh Power Private Limited	Reddypet	Telangana	15	TSS0428 6	TSS0428 8	TSS0 4274	0.2 s	15-May-2018	14-May-2023	10-August-2020	09-August-2025	No delay Observed
	Chegunta		15	2838079	2838080	2838081	0.2 s	03-May-2018	02-May-2023	12-May-2021	11-May-2026	No delay Observed
	Thunki Bollaram		15	2838071	2838072	2838073	0.2 s	10-May-2018	09-May-2023	11-June-2021	10-June-2026	No delay Observed
	Tungathurthy		15	HT01161 100	HT01161 101	HT01161 102	0.2 s	22-January-2019	21-January-2024	22-December-2020	21-December-2025	No delay Observed
	Guntipally		15	2832434	2832435	2832436	0.2 s	29-March-2018	28-March-2023	08-September-2021	07-September-2026	No delay Observed
	Shanigaram		15	APX01630	APX01635	APX0 1640	0.2 s	03-January-2019	02-January-2024	14-February-2022	13-February-2027	No delay Observed
Mytrah Agriya Power Private Limited	Kamareddy	Telangana	50	APZ0043 9	APZ0044 0	APZ0 0441	0.2 s	01-October-2018	30-September-2023	03-Nov-2020	02-Nov-2025	No delay Observed
Mytrah Akaash Power Private Limited	K.M. Pally	Telangana	50	17250998	1725099 9	1725100 0	0.2 s	04-January-2019	03-January-2024	25-September-2020	24-September-2025	No delay Observed

VVB team verified the above information with copies of calibration certificates and during onsite visit. Moreover, Also observed that, as per the registered joint PD and MR, calibration validity period for the monitoring meters are 05 years and during current monitoring period, no meters are delayed calibrated thus accepted by VVB.