



# ENERGISING INDIA USING SOLAR ENERGY PROJECTS



Document Prepared By

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

|                      |                                              |
|----------------------|----------------------------------------------|
| <b>Project Title</b> | Energising India using Solar Energy Projects |
| <b>Version</b>       | 01                                           |
| <b>Report ID</b>     | Internal project ID: 3921                    |

|                      |                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Title</b>  | Energising India using Solar Energy Projects                                                                                          |
| <b>Client</b>        | Azure Power India Pvt Ltd                                                                                                             |
| <b>Pages</b>         | 40                                                                                                                                    |
| <b>Date of Issue</b> | 31-May-2021                                                                                                                           |
| <b>Prepared By</b>   | LGAI Technological Center, S.A. (Applus+ Certification)                                                                               |
| <b>Contact</b>       | Campus UAB – Ronda de la Font del Carme, s/n<br>08193 Bellaterra – Barcelona Spain)<br>Tel: +34 93 567 20 08<br>Fax: +34 93 567 20 01 |

|                     |                                                                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <a href="http://www.appluscertification.com">www.appluscertification.com</a><br><a href="mailto:agustin.calle@applus.com">agustin.calle@applus.com</a><br><a href="mailto:carla.debat@applus.com">carla.debat@applus.com</a> |
| Approved By         | LGAi Technological Center S.A. (Applus+ Certification)<br>VVB Technical Manager – Mr. Agustín Calle de Miguel                                                                                                                |
| Work Carried Out By | Dr. Atul Takarkhede - Lead Auditor / Technical Expert:                                                                                                                                                                       |

## Summary:

**Verification purpose:** LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “Azure Power India Pvt Ltd” to perform the 03<sup>rd</sup> periodic verification of the “Energising India using Solar Energy Projects” (VCS ID 1931). 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 project activity by Azure Power India Pvt Ltd through various SPVs involves the generation of electricity through solar photovoltaic plant with a combined capacity of 480 MW in the state of Uttar Pradesh, Telangana, Andhra Pradesh and Gujarat India. This is an greenfield project activity and supply the generated electricity to the National power grid i.e. Indian Grid. Thus, project activity has reduced the dependence on fossil fuel-powered power plants by substituting carbon-intensive energy with the clean renewable solar energy. As per the baseline scenario, “Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants that are fossil fuel fired power plants”. The baseline scenario is the same as the scenario existing prior to the implementation of the project activity.

Start date of the project activity is the 19-September-2017 which is the date of commissioning of first phase of the Project. The project activity is a voluntary action and each SPV is the project proponent of their project activity. Azure Power India Pvt Ltd is parent company of these SPVs. The monitoring period for this VCS verification is 01-March-2020 to 31-December-2020 (including both days) and the project activity achieved 733,563 tCO<sub>2</sub>e emission reductions during this monitoring period thereon displaced 783,055 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). The MR is reviewed against the relevant criteria 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 02.0, review against registered PD and Final Validation report, CDM Project Standard for project activities, version 02.0, CDM project cycle procedure for project activities, version 02.0, VCS program guideline version 4.0 and VCS Standard version 4.1.

A risk-based approach has been followed to perform this verification activity. In the course of verification, 07 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 LGAI Technological Center S.A. (Applus+ Certification) with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

The assessment team 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 assessment team is to identify the significant risks for the project implementation and the generation of VERs. 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

|          |                                                                                                                      |           |
|----------|----------------------------------------------------------------------------------------------------------------------|-----------|
| <b>1</b> | <b>Introduction .....</b>                                                                                            | <b>6</b>  |
| 1.1      | Objective .....                                                                                                      | 6         |
| 1.2      | Scope and Criteria .....                                                                                             | 6         |
| 1.3      | Level of Assurance.....                                                                                              | 7         |
| 1.4      | Summary Description of the Project .....                                                                             | 7         |
| <b>2</b> | <b>Verification Process.....</b>                                                                                     | <b>8</b>  |
| 2.1      | Method and Criteria.....                                                                                             | 8         |
| 2.2      | Document Review .....                                                                                                | 10        |
| 2.3      | Interviews.....                                                                                                      | 10        |
| 2.4      | Site Inspections.....                                                                                                | 11        |
| 2.5      | Resolution of Findings .....                                                                                         | 11        |
| 2.6      | Eligibility for Validation Activities .....                                                                          | 12        |
| <b>3</b> | <b>Validation Findings.....</b>                                                                                      | <b>12</b> |
| 3.1      | Participation under Other GHG Programs .....                                                                         | 12        |
| 3.2      | Methodology Deviations.....                                                                                          | 13        |
| 3.3      | Project Description Deviations.....                                                                                  | 13        |
| 3.4      | Grouped Project .....                                                                                                | 13        |
| <b>4</b> | <b>Verification Findings.....</b>                                                                                    | <b>14</b> |
| 4.1      | Project Implementation Status .....                                                                                  | 14        |
| 4.2      | Safeguards .....                                                                                                     | 22        |
| 4.3      | AFOLU-Specific Safeguards .....                                                                                      | 23        |
| 4.4      | Accuracy of GHG Emission Reduction and Removal Calculations .....                                                    | 23        |
| 4.5      | Quality of Evidence to Determine GHG Emission Reductions and Removals .....                                          | 27        |
| 4.6      | Non-Permanence Risk Analysis.....                                                                                    | 29        |
|          | <b>APPENDIX 1: Documents Reviewed or Referenced (Verification) .....</b>                                             | <b>32</b> |
|          | <b>APPENDIX 2: CORRECTIVE ACTION REQUESTS, CLARIFICATION REQUESTS AND FORWARD ACTION REQUESTS (CAR/CL/FAR) .....</b> | <b>33</b> |
|          | <b>APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS.....</b>                                           | <b>38</b> |
|          | <b>APPENDIX 4: ABBREVIATIONS .....</b>                                                                               | <b>39</b> |

|                                                           |           |
|-----------------------------------------------------------|-----------|
| <b>APPENDIX 5: CALIBRATION DETAILS OF THE METERS.....</b> | <b>40</b> |
|-----------------------------------------------------------|-----------|

# 1 INTRODUCTION

## 1.1 Objective

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “Azure Power India Pvt Ltd” to perform the 03rd periodic verification of the “Energising India using Solar Energy Projects” under guideline version 4.0 and VCS standard version 4.1. 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- Version 19.0”
- the project's monitoring plan is assessed against “ACM0002- Version 19.0”
- 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 4.0 and standard version 4.1
- CDM validation and verification standard for project activities, Version 02.0
- CDM Project Standard for project activities, version 02.0
- CDM project cycle procedure for project activities, version 02.0
- VCS program guideline v4.0
- VCS standard v4.1

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 (VERs).

## 1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR) prepared as per the registered PD and registered approved methodology ACM0002- Version 19.0. 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 4.1 and guideline version 4.0, including the approved baseline and monitoring methodology ACM0002- Version 19.0. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 02.0, CDM Project Standard for project activities, version 02.0, CDM project cycle procedure for project activities, version 02.0 and VCS program guideline version 4.0 and VCS Standard version 4.1

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. Verification team conducted site visit to verify equipment's & technical details and metering/monitoring arrangement. The verification team has reviewed all the documents like commissioning certificates, technical specification, O&M practices, JMR, invoices, training records, grievance registers etc.

### 1.3 Level of Assurance

Applus+ Certification has planned and performed the verification by obtaining evidence and other information and explanations that assessment team considers necessary to give reasonable assurance that reported estimated GHG emission reductions are fairly stated. All documentary evidences were checked by the assessment team.

In our opinion, the estimated GHG emissions reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002- Version 19.0" and the VCS standard.

### 1.4 Summary Description of the Project

The project activity by Azure Power India Pvt Ltd through various SPVs involves the generation of electricity through solar photovoltaic plant with a combined capacity of 480 MW in the state of Uttar Pradesh, Telangana, Andhra Pradesh and Gujarat India. This is a greenfield project activity and supply the generated electricity to the National power grid i.e. Indian Grid. The monitoring period for this VCS verification is 01-March-2020 to 31-December-2020 (including both days) and the project activity achieved 733,563 tCO<sub>2</sub>e emission reductions during this monitoring period thereon displaced 783,055 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 project is a voluntary action being undertaken by each project owner of the project activity. EKI Energy Services Limited (hereafter referred as "EKIESL") is acting as the other entity for this project activity.

Verification team confirmed the capacity by verifying commissioning certificates and also verified during onsite interviews with PP. The details of interconnection with grid of solar plants and commissioning details are given in Section 4.1 of this report.

The technical specifications of solar plants confirmed with technical specifications from technology supplier and details as confirmed onsite are provided in Sec. 4.1 of this report.

These are the SPVs of Azure Power India Pvt Ltd and the projects are promoted by each SPV. The electricity meters are of a precision of 0.2s. The details of meters such as make, Sr, No., calibration frequency etc. are provided in Appendix 5 of this report.

Assessment team checked the Commissioning of project activity during onsite visit and confirmed with the commissioning Certificates and found correct. The project is implemented as per the description in the registered PD. No event observed during the current monitoring period which can alter or deviate from the methodology requirement.

## 2 VERIFICATIONPROCESS

### 2.1 Method and Criteria

**Verification Process:** The project assessment is based on the “CDM validation and verification standard for project activities, Version 02.0 and “VCS standard version 4.1, program guideline version 4.0” 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 assessment team, the members of the assessment team carried out: -

1. A desk review of the Monitoring report against the registered PD and final validation report;
2. Follow-up interviews with project participant;
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 assessment 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 has composed a project assessment 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 assessment team.

| Name                | Role  | SS Coverage | TA Coverage | Financial aspect | Host country experience |
|---------------------|-------|-------------|-------------|------------------|-------------------------|
| Dr. Atul Takarkhede | LA/TE | YES         | YES         | NA               | YES                     |
| Mr. Denny Xue       | TR    | YES         | YES         | NA               | NA                      |

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

#### **Document review**

The Monitoring report version 01 submitted by the PP was reviewed against the approved methodology, registered PD, 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.

#### **Follow-up interviews**

An onsite visit is conducted by Applus+ Certification. Audit team performed onsite interviews, with project stakeholders to confirm selected information 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 revised final MR 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 assessment 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.  | Tiwari      | Himanshu     | Site In-charge (UP)        | 07-April-2021 to 11-April-2021 | Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism, Management practices, data storage, QA/QC | Dr. Atul Takarkhede |
| 2.  | SHIVA SATE  | SAMBA        | Site In-charge (Telangana) |                                |                                                                                                                                |                     |
| 3.  | Galivedu    | Hari Kristen | Site In-charge (AP)        |                                |                                                                                                                                |                     |
| 4.  | Prajapati   | Manish       | Site In-charge (GJ)        |                                |                                                                                                                                |                     |

| No. | Interviewee |            |                             | Date | Subject                                                                       | Team member |
|-----|-------------|------------|-----------------------------|------|-------------------------------------------------------------------------------|-------------|
|     | Last name   | First name | Affiliation                 |      |                                                                               |             |
| 5.  | Patil       | Ramkrishna | EKI Energy Services Limited |      | GHG calculations, MR and ER preparation, Data collection, data storage, QA/QC |             |

## 2.4 Site Inspections

| Duration of on-site inspection: 07-April-2021 to 11-April-2021 |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |                                |                     |  |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------|---------------------|--|
| No.                                                            | Activity performed on-site                                                                                                                                                                                                                                                                                                                                                                                        | Site location                                                                        | Date                           | Team member         |  |
| 1.                                                             | Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring. Assessment team also checked that whether the monitoring plan as described in the VCS PD is actually practised onsite. Also assessment team checked any change in host country criteria which may affect the baseline of the project activity. | Uttar Pradesh (UP), Telangana (TL), Andhra Pradesh (AP) & Gujarat (GJ) States, India | 07-April-2021 to 11-April-2021 | Dr. Atul Takarkhede |  |

## 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 validation 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 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        | 00         | 00         |
| Description of project activity                                                                | 00        | 03         | 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        | 01         | 00         |
| Monitoring plan                                                                                | 00        | 00         | 00         |
| No Net harm assessment                                                                         | 00        | 00         | 00         |
| Local stakeholder consultation (Ongoing)                                                       | 00        | 01         | 00         |
| Others (please specify)                                                                        | 00        | 00         | 00         |
| <b>Total</b>                                                                                   | <b>00</b> | <b>07</b>  | <b>00</b>  |

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

### 2.5.1 Forward Action Requests

This is 03<sup>rd</sup> periodic verification of the project activity and no FAR was raised from validation or 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 is not applied under any other GHG program like CDM, GS, hence not applicable. PP has submitted an undertaking regarding no participation in any other GHG mechanism. Furthermore, VVB has checked the web site of other program like UNFCCC, VERRA & REC Registry of India and confirms that the project with same SPV, installed capacity and locations are not listed.

### 3.2 Methodology Deviations

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

### 3.3 Project Description Deviations

Following deviation was approved during previous second verification of the project activity.

PP has applied a deviation for monitoring of quantity of net electricity generation supplied by the 50 MW of SPV “Azure Power Thirty-Six Pvt Ltd” located in Andhra Pradesh. The monitoring of net electricity supplied to grid by this SPV is changed from November 2018 and now it is based on Settlement Mechanism (DSM). In DSM, PP provides forecasted energy generation (scheduled) in day time block (15 minutes each, total 96 blocks) in advance to the Southern Regional Power Committee and invoicing are being done based on forecasted energy generation. Any deviation from forecasted generation is penalised which depends on magnitude of deviation.

The total schedule energy generation and the actual electricity supplied by the project activity is maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. The actual electricity supplied is the net electricity supplied by the project to the grid. Regional Energy Account (monthly net export) for every month in respect of Southern Region has been uploaded on the SRPC website ([www.srpc.kar.nic.in](http://www.srpc.kar.nic.in)). Therefore, instead of export and Import values as per approved monitoring plan, the net electricity supplied to the grid has been used to calculate the emission reductions. Since, emission reduction calculation is based in the actual i.e. net electricity delivered to grid which was supposed to calculate with difference of export and import prior to deviation. Assessment team found that there is no impact of this in emission reductions, hence this is acceptable. Furthermore, the net electricity supplied to the grid is provided by government nodal agency, hence no any cross-checking is required.

There is no other deviation applied during this verification.

### 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 onsite visit, it was concluded that the project is implemented as per the instruction of the registered VCS PD, and same is also verified from the commissioning certificates. During the current monitoring period it was observed that no unforeseen situation evolved which can impact the operation of the project activity. Breakdown summary is submitted by PP for the solar plants. Scheduled maintenance was carried out as per the instruction of the manufacturer and the same is acceptable to the assessment team.

The total installed capacity of the project is 480 MW; which involves 30 MW and 40 MW capacity in Uttar Pradesh by Azure Power Jupiter Pvt Ltd and Azure Power Venus Pvt Ltd respectively, 100 MW in Telangana by Azure Power Thirty Seven Pvt Ltd, 50 MW in Andhra Pradesh by Azure Power Thirty Six Pvt Ltd and 260 MW in in Gujrat by Azure Power Thirty Three Pvt Ltd. The technical parameters/specification have been verified by the assessment team through interview with site personal, the nameplates and technical specifications from manufacturer. The details of interconnection with grid of solar plants and commissioning details are given below;

| Name of the SPVs                 | Capacity ((MW) | Commissioning date          |                 |                    |
|----------------------------------|----------------|-----------------------------|-----------------|--------------------|
|                                  |                | Site                        | Capacity (MW)   | Commissioning date |
| Azure Power Jupiter Pvt Ltd.     | 30             | Hardoi                      | 20              | 19-September-2017  |
|                                  |                | Hamirpur                    | 10              | 22-September-2017  |
| Azure Power Thirty Seven Pvt Ltd | 100            | Nagar Kurnool & Ranga Reddy | 12-January-2018 |                    |
| Azure Power Venus Pvt Ltd        | 40             | Jalaun                      | 14- April-2018  |                    |
| Azure Power Thirty Six Pvt Ltd   | 50             | Kurnool                     | 30-April-2018   |                    |
| Azure Power Thirty Three Pvt Ltd | 260            | Dhari                       | 35              | 02-Novomber-2018   |
|                                  |                | Semali                      | 30              | 10-December-2018   |
|                                  |                | Vadol                       | 40              | 01-November-2018   |
|                                  |                | Netramali                   | 40              | 07-March-2019      |
|                                  |                | Sanes                       | 50              | 13-March-2019      |

| Name of the SPVs | Capacity<br>(MW) | Commissioning date |                  |                       |
|------------------|------------------|--------------------|------------------|-----------------------|
|                  |                  | Site               | Capacity<br>(MW) | Commissioning<br>date |
|                  |                  | Muloj              | 40               | 22-February-2019      |
|                  |                  | Vartol             | 25               | 09-March-2019         |

The assessment team interviewed the plant site personals during onsite visit in order to verify the status of the project implementation of the monitoring plan.

The assessment team also confirmed that the monitoring system for emission reduction calculation was in place and in accordance with the registered VCS PD. However, PP has applied a deviation for monitoring of quantity of net electricity generation supplied by the SPV “Azure Power Thirty-Six Pvt Ltd” (50 MW) located in Andhra Pradesh. The monitoring of net electricity supplied to grid by this SPV was changed from November 2018 and now it is based on Settlement Mechanism (DSM). In DSM, PP provides forested energy generation (scheduled) in day time block (15 minutes each, total 96 blocks) in advance to the Sothern Regional Power Committee and invoicing are being done based on forecasted energy generation. Any deviation from forecasted generation is penalised which depends on magnitude of deviation.

The total schedule energy generation and the Actual electricity supplied by the project activity was maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. The actual electricity supplied is the net electricity supplied by this project to the grid. Regional Energy Account (monthly net export) for every month in respect of Southern Region has been uploaded on the SRPC website ([www.srpc.kar.nic.in](http://www.srpc.kar.nic.in)). Therefore, instead of export and Import values as per approved monitoring plan, the net electricity supplied to the grid has been used to calculate the emission reductions. Since, emission reduction calculation is based in the actual i.e. net electricity delivered to grid which was supposed to calculate with difference of export and import prior to deviation. Assessment team found that there is no impact of this in emission reductions, hence this is acceptable.

The nature of deviation is permanent. Since, emission reduction calculation is based in the actual i.e. net electricity delivered to grid which is was supposed to calculate with difference of export and import, hence this is acceptable.

During the current monitoring duration, no events have been found that can change the design of project.

The details of the SPVs for the project and their location of installation are mentioned in the table below:

| Name of SPVs                   | Capacity<br>in MW | Location                               | Latitude (N)  | Longitude (E) |
|--------------------------------|-------------------|----------------------------------------|---------------|---------------|
| Azure Power<br>Jupiter Pvt Ltd | 20                | Bibiyapur,<br>Hardoi, Uttar<br>Pradesh | 27° 35' 12.9" | 79° 43' 51.6" |
|                                | 10                | Raniganj/                              | 25° 54' 18.4" | 79° 55' 10.1" |

| Name of SPVs                     | Capacity in MW | Location                             | Latitude (N) | Longitude (E) |
|----------------------------------|----------------|--------------------------------------|--------------|---------------|
|                                  |                | Hamirpur, Uttar Pradesh              |              |               |
| Azure Power Thirty Seven Pvt Ltd | 100            | Rachur, Marchal, & Veljal, Telangana | 16°31'11.0"  | 77°53'49.0"   |
| Azure Power Venus Pvt Ltd        | 40             | Dakor, Jalaun, Uttar Pradesh         | 25°51'07.1"  | 79°25'42.4"   |
| Azure Power Thirty Six Pvt Ltd   | 50             | Gani & Sakunala, Andhra Pradesh      | 14°01'30.6"  | 78°26'36.6"   |
| Azure Power Thirty Three Pvt Ltd | 35             | Dhari, Bharuch, Gujarat              | 22°04'01.0"  | 72°37'01.0"   |
|                                  | 30             | Semaliya, Aravalli, Gujarat          | 23°13'37.3"  | 73°22'34.6"   |
|                                  | 40             | Vadol, Kheda, Gujarat                | 22°57'47.7"  | 73°12'59.1"   |
|                                  | 40             | Sanes, Bhavnagar, Gujarat            | 21°54'11.6"  | 72°06'38.9"   |
|                                  | 50             | Vartol, Sabarkantha, Gujarat         | 24°05'32.7"  | 73°04'19.3"   |
|                                  | 40             | Netramali, Sabarkantha, Gujarat      | 23°46'13.2"  | 72°59'42.4"   |
|                                  | 25             | Muloj, Aravalli, Gujarat             | 23°30'52.9"  | 73°26'28.3"   |

These are the SPVs promoted by M/s. Azure Power India Pvt Ltd.

Capacity of the projects and date of commissioning verified with commissioning certificates and technical specifications provided by technology supplier.

Geo coordinates checked on google earth and verification team conclude geo coordinates of project locations are consistent with registered PD.

Assessment team checked the technical details of the project activity from the manufactures specification and the detail are as follow:

#### **Solar PV Project Technology Details –**

The project activity aims to harness solar energy through installation of Solar PV project with total installed capacity of 480 MW.

The technical specification of 20 MW plant interconnection with grid on 19-September-2017 by Azure Power Jupiter Pvt Ltd have been verified onsite & through the technical specification provided by the supplier and commissioning certificates. The same is provided in table below:

| Sl. No. | Technical details of the equipment | Description                                                                                                                              |
|---------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Make of modules installed          | Hanwha 320 Watt peak                                                                                                                     |
| 2       | No. of the modules installed       | 62500                                                                                                                                    |
| 3       | Make & Model of Invertor           | ABB                                                                                                                                      |
| 4       | Number of Inverters                | 10 Nos. Sr. Nos.-9171600403, 9171600393, 9171600395, 9171600404, 9171600408, 9171600396, 9171600405, 9171600394, 9171600406, 91733600099 |
| 5       | Make & Number of Transformers      | Make: Schneider, Nos.3, Sr. No.: TBI/8092872/5, TBI/8092872/6, TBI/8092873/4                                                             |

The technical specification of 10 MW plant interconnection with grid on 22-September-2017 by Azure Jupiter Power Pvt Ltd have been verified through the technical specification provided by the supplier and commissioning certificates. The same is provided in table below :

| Sl. No. | Technical details of the equipment | Description                                                                                                                                    |
|---------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Make of modules installed          | Hanwha 320 Watt pick                                                                                                                           |
| 2       | No. of the modules installed       | 31800                                                                                                                                          |
| 3       | Make & Model of Invertor           | ABB Type: Central                                                                                                                              |
| 4       | Number of Inverters                | 10 nos. Sr. No. of are 9171600403, 9171600393, 9171600395, 9171600404, 9171600408, 9171600396, 9171600405, 9171600394, 9171600406, 91733600099 |
| 5       | Make & Number of Transformers      | Make-ABB; 3 nos, Sr. No: TBI/8092872/5, TBI/8092872/6, TBI/8092873/4                                                                           |

The technical specification of 100 MW plant interconnection with grid on 12-January-2018 by Azure Power Thirty Seven Pvt Ltd have been verified onsite & through the technical specification provided by the supplier and commissioning certificates. The same is provided in table below :

| Sl. No. | Technical details of the equipment | Description       |
|---------|------------------------------------|-------------------|
| 1       | Make of modules installed          | Make-Chint Solar, |

|   |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                               | Make-Risen Solar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2 | No. of the modules installed  | 320 Wp-36.0 MWp-112500 nos. 325 Wp-23.99 MWp-73819 nos.<br>320 Wp-23.95 MWp-74869 nos. 325 Wp-16.22 MWp-49920 nos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3 | Make & Model of Invertor      | Make: ABB, Rating-1 MW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4 | Number of Inverters           | Sr. No: 9172200416, 9172200418, 9172200419, 9172200420, 9172200580, 9172200577, 9172200579, 9172200583, 9172200584, 9172200586, 9172200422, 9172200423, 9172200424, 9172200425, 9172200426, 9172200562, 9172200563, 9172200564, 9172200565, 9172200566, 9172200567, 9172200568, 9172200569, 9172200570, 912200571, 9172200276, 9172200588 to 9172200597, 9172300277, 9172200278, 9172300279, 9172400091 to 9172400101, 91724001421, 9172001400 to 9172001425, 91722005572 to 9172200576, 9172400103, 9172400104, 9172400109, 9172400112, 9172400117 to 9172400125, 9172001436 to 9172001440, 9172001411 to 9172001420, 9172001426 to 9172001435 |
| 5 | Make & Number of Transformers | 20 nos. of 4 MVA transformers, 33/0.400/0.400kV, Sr. No: 891022/01 to 891022<br>10 nos. of 2 MVA Transformers, 33/0.400/0.400 kV, Sr. No.:8191023/01 to 8191023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

The technical specification of 40 MW plant interconnection with grid on 14-April-2018 by Azure Power Venus Pvt have been verified onsite & through the technical specification provided by the supplier and commissioning certificates. The same is provided in table below

| Sl. No. | Technical details of the equipment | Description |
|---------|------------------------------------|-------------|
|---------|------------------------------------|-------------|

|   |                               |                                                                                                                   |
|---|-------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1 | Make of modules installed     | Make-Hanwha SolarOne, Hanwha Q Cells, 320 Wp/HSL 72 P6-PC-1-320 at 1000 V, 320 Wp/ Q. POWER L-G5.2 320 at 1500V , |
| 2 | No. of the modules installed  | 148020 nos                                                                                                        |
| 3 | Make & Model of Invertor      | Inverter cum transformers<br>Make: ABB and Schneider Electric,                                                    |
| 4 | Number of Inverters           | 24 Nos.                                                                                                           |
| 5 | Make & Number of Transformers | Inverter cum transformers<br>Make: ABB and Schneider Electric,                                                    |

The technical specification of 50 MW plant interconnection with grid on 30-April-2018 by Azure Power Thirty Six Pvt Ltd Pvt Ltd have been verified onsite visit & through the technical specification provided by the supplier and commissioning certificates. The same is provided in table below :

| Sl. No. | Technical details of the equipment | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Make of modules installed          | Hanwha Q Cells,                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2       | No. of the modules installed       | 320 Wp, 1000V= 31200 Nos<br>325 Wp, 1000V= 96080 Nos<br>325 Wp, 1500V=36480 Nos<br>330 Wp, 1000V= 18600 Nos<br>Total Power= 59.204 MWp (DC)<br>=50 MW (AC)                                                                                                                                                                                                                                                                                                            |
| 3       | Make & Model of Invertor           | <ul style="list-style-type: none"> <li>• Make- ABB India Ltd &amp; TBEA,</li> <li>• Ratings: 1732 KW, 1000 KW and 2500 KW</li> </ul>                                                                                                                                                                                                                                                                                                                                  |
| 4       | Number of Inverters                | 1732-23 Nos, 1000 KW, 2500 KW- 4 Nos.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5       | Make & Number of Transformers      | <ul style="list-style-type: none"> <li>• <b>Current Transformer</b> <ul style="list-style-type: none"> <li>▪ Make: ECS</li> <li>▪ Quantity: 06</li> <li>▪ S. No.: R Ph-17/045084, Y Ph-17/045083, B Ph - 17/045082, R Ph-17/045087, Y Ph- 17/045086, B Ph-17/045085</li> <li>▪ Ratio: 500-1000/1A, 5 VA, CL 0.2S</li> </ul> </li> <li>• <b>Potential Transformer</b> <ul style="list-style-type: none"> <li>▪ Make: ECS</li> <li>▪ Quantity: 6</li> </ul> </li> </ul> |

|  |  |                                                                                                                                                                                                                                                    |
|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <ul style="list-style-type: none"> <li>▪ S. No.: R Ph- 17/014965, Y Ph- 17/014964, B Ph- 17/014963, R Ph - 17/014968, Y Ph- 17/014967 and B Ph - 17/014966</li> <li>▪ Ratio: <math>(33KV/\sqrt{3})(110V/\sqrt{3})</math>, 50VA, CI 0.2s</li> </ul> |
|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The technical specification of 260 MW plants and interconnection with grid by Azure Power Thirty three Pvt Ltd have been verified during onsite visit & through the technical specification provided by the supplier and commissioning certificates. The same is provided in table below :

| Location | Installed Capacity (MWp) | Interconnection with grid | Technical Specifications                                                                                                                                                                                                                                                                                          |
|----------|--------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dhari    | 35                       | 02-Nov-2018               | <ul style="list-style-type: none"> <li>• SPV Modules- Type/Make: Polycrystalline/GCL, Talesun, Risen</li> <li>• Number of photovoltaic modules/Rating: 61440/330 Wp, 66240/325 Wp, 7680/335 Wp</li> <li>• Inverters-Type/Make: Central/Schneider</li> <li>• Nos. of inverter/Rating-17/2 MW, 2/0.68 MW</li> </ul> |
| Semaliya | 30                       | 10-Dec-2018               | <ul style="list-style-type: none"> <li>• SPV Modules-Type / Make: Polycrystalline/Risen, Talesun</li> <li>• Number of Photovoltaic modules/Rating: 48300/325 Wp, 67620/330 Wp</li> <li>• Inverters-Type/Make: Central/TMEic</li> <li>• Numbers of inverter/Rating-12/2.55 MW</li> </ul>                           |
| Vadol    | 40                       | 01-Nov-2018               | <ul style="list-style-type: none"> <li>• SPV Modules-Type/Make: Polycrystalline/GCL, Talesun, Risen</li> <li>• Number of Photovoltaic modules/Rating: 38640/330 Wp, 19320/325 Wp</li> <li>• Inverters-Type/Make: Central/TMEic</li> <li>• Numbers of inverter/Rating-06/2.55 MW</li> </ul>                        |

| Location  | Installed Capacity (MWp) | Interconnection with grid | Technical Specifications                                                                                                                                                                                                                                                                                |
|-----------|--------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Netramali | 40                       | 07-Mar-2019               | <ul style="list-style-type: none"> <li>• SPV Modules-Type/Make: Polycrystalline/Waaree Solar</li> <li>• Number of Photovoltaic modules/Rating: 22800/325 Wp, 160800/330 Wp</li> <li>• Inverters-Type/Make: Central/TMEic</li> <li>• Numbers of inverter/Rating-16/2.5 MW</li> </ul>                     |
| Sanes     | 50                       | 13-Mar-2019               | <ul style="list-style-type: none"> <li>• SPV Modules-Type/Make: Polycrystalline/Waaree</li> <li>• Number of Photovoltaic modules/Rating: 912160/325 Wp, 136800/330 Wp</li> <li>• Inverters-Type/Make: Central/TMEic</li> <li>• Numbers of inverter/Rating-20/2.5 MW</li> </ul>                          |
| Muloj     | 40                       | 22-Feb-2019               | <ul style="list-style-type: none"> <li>• SPV Modules-Type/Make: Polycrystalline/Waaree, Talesun, Risen, JA Solar</li> <li>• Number of Photovoltaic modules/Rating: 80640/325 Wp, 102600/330 Wp</li> <li>• Inverters-Type/Make: Central/TMEic</li> <li>• Numbers of inverter/Rating-16/2.5 MW</li> </ul> |
| Vartol    | 25                       | 09-Mar-2019               | <ul style="list-style-type: none"> <li>• SPV Modules-Type/Make: Polycrystalline/Talesun, GCL</li> <li>• Number of Photovoltaic modules/Rating: 34560/325 Wp, 11520/330 Wp</li> <li>• Inverters-Type/Make: Central/TMEic</li> <li>• Numbers of inverter/Rating-04/2.55 MW</li> </ul>                     |

Assessment team concludes the following:

- a) The implementation status of project activity was found to be in compliance with registered PD.
- b) VVB has conducted the onsite visit to confirm the implementation status of the project.
- c) The commissioning date of the project activity was found to be accurately and consistently recorded.
- d) The actual operation of project activity was found to be in compliance with the flow diagram provided in registered PD.
- e) The emission reductions achieved during the current monitoring period are 733,563 tCO<sub>2</sub>e.

The project activity contributes to the sustainable development by utilising solar energy for generating electricity which otherwise would have been generated through fossil fuels. Thereby reduction in usage of non-renewable sources used to generate energy.

Further the GHG emission reductions generated by the project activity has not been included by any other an emissions trading program or any other mechanism that includes GHG allowance trading. Also, the project has not received any other form of environmental credit and has not been participated/rejected under any other GHG programs.

Sustainable Development- The project will contribute to the sustainable development in the following ways:

1. Environmental: Since the project activity leads to cleaner production of energy, it is leading to displacement of fossil fuel-based energy.
2. Social: Setting up of the project activity has created new job openings hence is supporting employment of the local people around.
3. Cleaner Air: Since the project activity leads to lesser GHG emission it results in better air quality

Further the project has been implemented as described in the Project Description. CAR 01, CAR 02, CAR 03 were raised and same were resolved by revision in the MR.

## 4.2 Safeguards

### 4.2.1 No Net Harm

No potential environment or socio-economic matter was found during the documents review of VCS PD 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 2013<sup>1</sup>. This report clearly mentioned that solar/Wind power project activity operations do not result in direct air pollution, noise pollution. Moreover, also as per the Central Pollution Control Board of India notification<sup>2</sup> solar/wind 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 on-going stakeholder's communication, PP have maintained grievance register 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. 4.1 and appropriate actions taken time to time by PP. PP has also provided an interface at <http://www.azurepower.com/contact-us> where suggestion and the grievance can be submitted. CAR 04 raised regarding on going communication with stakeholders and the same is closed after giving response by PP. Refer Annexure 2 for the detail.

Assessment team checked the grievance register 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, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate.

#### 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 PD. 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. |
| Findings              | CAR 05 & CAR 07 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.                                                                                                                                                                                                                       |
| Conclusion            | <b>Ex-ante Parameter:</b>                                                                                                                                                                                                                                                                                                                                                           |

<sup>1</sup> <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

<sup>2</sup> [http://envfor.nic.in/sites/default/files/Latest\\_118\\_Final\\_Directions.pdf](http://envfor.nic.in/sites/default/files/Latest_118_Final_Directions.pdf)

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>EF<sub>grid,OM,y</sub></b> = Parameter is fixed ex-ante for the entire crediting period and as per the validated VCS PD same is fixed 0.9610 tCO<sub>2</sub>/MWh. Verification team found same was used in the ER calculations.</p> <p>Ex ante value of emission factor is taken from CEA database, Ver. 14, December, 2018. Verification team checked the EF value and found in consistent with registered PD</p> <p><b>EF<sub>grid,BM,y</sub></b> = Parameter is fixed ex-ante for the entire crediting period and as per the validated VCS PD same is fixed 0.8644 tCO<sub>2</sub>/MWh. Verification team found same was used in the ER calculations.</p> <p>Ex ante value of emission factor is taken from CEA database, Ver. 14, December, 2018. Verification team checked the EF value and found in consistent with registered PD</p> <p><b>EF<sub>grid,CM,y</sub></b> = Parameter is fixed ex-ante for the entire crediting period and as per the validated VCS PD same is fixed 0.9368 tCO<sub>2</sub>/MWh. Verification team found same was used in the ER calculations.</p> <p>Ex ante value of emission factor is taken from CEA database, Ver. 14, December, 2018. Verification team checked the EF value and found in consistent with registered PD.</p> <p><b>Baseline Emissions:</b></p> <p>The baseline Emissions for a given year is calculated by multiplying the energy baseline with the grid emission factor. The grid in this case would be the 'Indian Grid'</p> <p>Formula Used: -</p> $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ <p>The project activity is greenfield plant and in accordance with the para 44 of methodology ACM 0002, ver 19,</p> $EG_{PJ,y} = EG_{facility,y}$ <p>Therefore,</p> $BE_y = EG_{facility,y} \times EF_{grid,CM,y}$ <p>Where:</p> <p><math>BE_y</math> = Baseline emissions in year y (t CO<sub>2</sub>/yr)</p> <p><math>EG_{PJ,y}</math> = Quantity of net electricity generation that is produced and injected into the grid as a result of the implementation of the project activity in year y (MWh/yr)</p> <p><math>EG_{facility,y}</math> = Quantity of net electricity generation supplied by the (solar) plant/unit to the grid in year y (MWh/yr)</p> |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

$EF_{grid,CM,y}$  = Combined margin CO<sub>2</sub> 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 CO<sub>2</sub>/MWh)

#### Ex-post parameter:

As per the registered monitoring plan and requirement of the registered methodology following parameters needs to be monitored:

**EG<sub>facility,y</sub>** (Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid during the monitoring period in MWh)

The verification team has checked the entire monthly JMR reports/State Energy Accounting/Regional Energy Account for net electricity generated & supplied to the grid and crosschecked same with the invoices raised by PP towards State Utilities for the monitoring period. All values are found correct. All the parameters are monitored and recorded as per the monitoring plan in the MR. However, PPs have apportioned the values for the first and last month of the monitoring period where dates are not matching with JMR cycle in AP and Telangana states. Apportioning found appropriate and conservative. The billing meters are installed in switchyard of each SPV and connected to substations of respective states utilities (Refer Appendix 5 of this report). The details of monitoring equipment installed at each SVP are given below;

| Name of the SPVs                 | Site                      | Main Meter Details                                                     | Check Meter Details                                                    |
|----------------------------------|---------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| Azure Power Jupiter Pvt Ltd      | Hardoi                    | SL. No.: UP-0015E <sup>3</sup><br>Make: EDM I<br>Accuracy class: 0.2 s | SL. No.: UP-0015E <sup>4</sup><br>Make: EDM I<br>Accuracy class: 0.2 s |
|                                  |                           | SL. No.: UP-0202-A<br>Make: L&T<br>Accuracy class: 0.2 s               | SL. No.: UP-0203-A<br>Make: L&T<br>Accuracy class: 0.2 s               |
|                                  | Hamirpur                  | SL. No.: 0015197361<br>Make: L&T<br>Accuracy class: 0.2 s              | SL. No.: UP-0008-A<br>Make: L&T<br>Accuracy class: 0.2 s               |
| Azure Power Thirty Seven Pvt Ltd | Rachu, Marchal and Veljal | SL. No.: APZ00498<br>Make: Secure<br>Accuracy class: 0.2 s             | SL. No.: APZ00499<br>Make: Secure<br>Accuracy class: 0.2 s             |
| Azure Power                      | Dakore                    | <b>Aata Substation Circuit-I</b><br>Main Meter                         | <b>Aata Substation Circuit-I</b><br>Check Meter: SL. No.: UP3384A      |

<sup>3</sup> Meter change on 01-03-2019 for both main and check meter

<sup>4</sup> Meter change on 01-03-2019 for both main and check meter

|  |                                  |              |                                                                                                                                                                            |                                                                                                                                                         |
|--|----------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Venus Pvt Ltd                    |              | SL. No.: UP3383A<br>Make: Secure<br>Accuracy class: 0.2 s<br><b>Aata Substation Circuit-II</b><br>Main Meter:<br>SL. No.: UP3381A<br>Make: Secure<br>Accuracy class: 0.2 s | Make: Secure<br>Accuracy class: 0.2 s<br><b>Aata Substation Circuit-II</b><br>Check Meter:<br>SL. No.: UP3382A<br>Make: Secure<br>Accuracy class: 0.2 s |
|  | Azure Power Thirty Six Pvt Ltd   | Anantppu ram | SL. No.: APZ00507<br>Make: Secure<br>Accuracy class: 0.2 s                                                                                                                 | SL. No.: APZ00508<br>Make: Secure<br>Accuracy class: 0.2 s                                                                                              |
|  | Azure Power Thirty Three Pvt Ltd | Dhari        | SL. No.: GJ-3977-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                                                 | SL. No.: GJ-3979-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                              |
|  |                                  | Semaliya     | SL. No.: GJ-4049-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                                                 | SL. No. : GJ-4050-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                             |
|  |                                  | Vadol        | SL. No.: GJ-3980-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                                                 | SL. No. : GJ-3981-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                             |
|  |                                  | Netramali    | SL. No.: GJ-4095-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                                                 | SL. No. : GJ-4096-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                             |
|  |                                  | Sanes        | SL. No.: GJ-4145-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                                                 | SL. No. : GJ-4146-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                             |
|  |                                  | Muloj        | SL. No.: GJ-4093-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                                                 | SL. No. : GJ-4094-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                             |
|  |                                  | Vartol       | SL. No.: GJ-4047-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                                                 | SL. No. : GJ-4048-A<br>Make: EDM I<br>Accuracy class: 0.2 s                                                                                             |

Furthermore, PP has applied a deviation in monitoring plan of Azure Power Thirty Six Pvt Ltd (50 MW) located in Andhra Pradesh. The monitoring of net electricity supplied to grid by this SPV was changed in November 2018 and now it is based on Settlement Mechanism (DSM). The same was verified with the Regional Energy Accounts (JMRs) issued by South Power Committee. In DSM, PP provides forested energy generation (scheduled) in day time block (15 minutes each, total 96 blocks) in advance to the Sothern Regional Power Committee and invoicing was done based on forecasted energy generation. Any deviation from forecasted generation is penalised which depends on magnitude of deviation.

Details of deviation and assessment is already provided in Section 3.3 of this report above.

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>The nature of deviation is permanent. Since, emission reduction calculation is based in the actual i.e. net electricity delivered to grid which was supposed to calculate with difference of export and import prior to deviation. Assessment team found that there is no impact of this in ERs, hence this is acceptable.</p> <p>The verification team has crosschecked the revised emission reduction sheet and monitoring report data with the JMR sheet and invoice and found all the values are matching.</p> <p>The net electricity supplied the grid by the project activity during the monitoring period is 783,055MWh.</p> <p>Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors.</p> <p>BE<sub>y</sub> baseline emissions, tCO<sub>2</sub>e</p> $BE_y = 783,055 \text{ MWh} \times 0.9368 \text{ tCO}_2\text{e/MWh}$ $= 733,563 \text{ tCO}_2\text{e (round down values)}$ <p>As per applied methodology ACM0002- Version 19.0 and the VCS PD, project emission is considered zero as the project activity involved Solar power generation.</p> <p>Leakage: As per applied methodology ACM0002- Version 19.0 and VCS PD Leakage emissions are not considered for the project activity.</p> <p>Hence, <math>ER_y = BE_y - PE_y = 733,563 - 0 = 733,563 \text{ tCO}_2\text{e (round down values)}</math></p> <p>Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the registered VCS PD. Assessment team confirmed that the GHG emission reductions and removals have been quantified correctly in line with the registered VCS PD.</p> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Means of verification</b> | The verification team checked the Calibration details of the monitoring meters with the calibration certificates.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Findings</b>              | CAR 06 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Conclusion</b>            | The metering arrangement is bi-directional energy meters (Main and Check) of accuracy class 0.2s at the State Electricity Board (SEB) sub-station. These electricity meters are being used by state electricity board for Share certificate statements. These meters record several parameters including electricity exported & imported. These electricity meters are being used by state electricity board for monthly generation reports. The details like make, Serial number, Calibration dates etc are provided in Appendix 5 of this report. |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>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 i.e. The calibration frequency of meters is once in 5 years. 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 PD. On-site visit and interview with O&amp;M personnel also confirms the same.</p> <p>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 complied. Thus, no delayed calibration is observed and thus the same is found appropriate.</p> <p>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 assessment team to arrive at positive verification conclusions. The monitoring plan is followed at the project site. The monitoring meters were calibrated in line with the registered monitoring plan and there was no delay in calibration observed.</p> <p>Comparison of actual and estimate emission reductions achieved:<br/>Assessment team checked the calculation of estimated VER vs. Actual VER. As per the registered VCS PD the amount of VERs annually is 852,639 tCO<sub>2</sub>e. The days involved in present monitoring period are 306. Therefore, on pro-rata basis, the estimated VERs for the monitoring period is 714,815 tCO<sub>2</sub>e. Actual VERs obtained for the monitoring period is 733,563 tCO<sub>2</sub>e and thus the actual VER is 2.62% higher than the estimated VER. This variation is majorly due to the variations in availability of sunny days, climatic conditions, grid availability and other parameters which are not in the control of PP. the slight increase in ER achieved, does not impact on the additionality and the IRR is still below the benchmark value.</p> <p>Thus, assessment team concluded that the evidences are sufficient in quantity, and appropriate for the quality, to determine the GHG reductions and removals.</p> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 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 by Azure Power India Pvt Ltd to perform the 03<sup>rd</sup> periodical verification of the “Energising India using Solar Energy Projects”.

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 and the applied methodology ACM0002- Version 19.0

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 PD
- 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-2020 to 31-December-2020 (inclusive of both days)

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

| Year                              | Baseline emissions or removals (tCO <sub>2</sub> e) <sup>5</sup> | Project emissions or removals (tCO <sub>2</sub> e) | Leakage emissions (tCO <sub>2</sub> e) | Net GHG emission reductions or removals (tCO <sub>2</sub> e) |
|-----------------------------------|------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------------------|
| 01-March-2020 to 31-December-2020 | 733,563                                                          | 0                                                  | 0                                      | 733,563                                                      |

---

<sup>5</sup>Rounddown values

| Year  | Baseline emissions or removals (tCO <sub>2</sub> e) <sup>5</sup> | Project emissions or removals (tCO <sub>2</sub> e) | Leakage emissions (tCO <sub>2</sub> e) | Net GHG emission reductions or removals (tCO <sub>2</sub> e) |
|-------|------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------------------|
| Total | 733,563                                                          | 0                                                  | 0                                      | 733,563                                                      |

# APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

| No. | Author | Title                                                                                                                                                                                                                                                    | References to the document                  | Provider |
|-----|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------|
| 1.  | NA     | Commissioning certificates of the Solar plants                                                                                                                                                                                                           |                                             | PP       |
| 2.  | NA     | Contract of the project participant with the DOE                                                                                                                                                                                                         | Contract document signed between PP and DOE | PP       |
| 3.  | NA     | The operational lifetime of the project activity from the manufacturer = (Technical specifications)                                                                                                                                                      | Manufacturer technical specifications       | PP       |
| 4.  | NA     | Registered PD<br>VCS webpage for the project, VCS ID 1931;<br><a href="https://registry.terra.org/app/projectDetail/VCS/1931">https://registry.terra.org/app/projectDetail/VCS/1931</a>                                                                  | NA                                          | PP       |
| 5.  | NA     | Calibration Certificates of energy meters                                                                                                                                                                                                                | NA                                          | PP       |
| 6.  | NA     | MR version 01<br>MR version 02                                                                                                                                                                                                                           | 23-March-2021<br>17-May-2021                | PP       |
| 7.  | NA     | Emission reduction sheet version 01<br>Emission reduction sheet version 02                                                                                                                                                                               | 23-March-2021<br>17-May-2021                | PP       |
| 8.  | NA     | O & M Agreement                                                                                                                                                                                                                                          | -                                           | PP       |
| 9.  | NA     | Power Purchase Agreements (PPAs)                                                                                                                                                                                                                         | -                                           | PP       |
| 10. | NA     | Tools/ guidelines used in the project activity <ul style="list-style-type: none"> <li>Glossary of CDM terms version 07</li> <li>VCS standard Version 4.1</li> <li>VCS Program Guide 4.0</li> <li>VCS verification report template version 4.0</li> </ul> | UNFCCC CDM/VCS web site                     | UNFCCC   |
| 11. | NA     | Monthly statement- JMR & invoices for the complete monitoring period                                                                                                                                                                                     | -                                           | PP       |
| 12. | NA     | Declaration regarding no participation in other GHG program for the concerned monitoring period                                                                                                                                                          | 02-April-2021                               | PP       |
| 13. | NA     | Breakdown details for the monitoring period                                                                                                                                                                                                              | -                                           | PP       |
| 14. | NA     | Employment records for plant persons                                                                                                                                                                                                                     | -                                           | PP       |
| 15. | NA     | Grievance Register maintained at site                                                                                                                                                                                                                    | -                                           | PP       |
| 16. |        | CDM validation and verification standard for project activities, Version 02.0                                                                                                                                                                            | -                                           | UNFCCC   |
| 17. |        | Validation & previous Verification Report                                                                                                                                                                                                                | -                                           | PP       |

| No. | Author | Title                                | References to the document | Provider |
|-----|--------|--------------------------------------|----------------------------|----------|
| 18. |        | Breakdown details of the power plant | -                          | 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**

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

**Table 2. CL from this verification**

|                                                      |    |                    |    |                             |
|------------------------------------------------------|----|--------------------|----|-----------------------------|
| <b>CL ID</b>                                         | XX | <b>Section no.</b> | NA | <b>Date : DD-Month-YYYY</b> |
| <b>Description of CL</b>                             |    |                    |    |                             |
| NA                                                   |    |                    |    |                             |
| <b>Project participant response</b>                  |    |                    |    | <b>Date : DD-Month-YYYY</b> |
| NA                                                   |    |                    |    |                             |
| <b>Documentation provided by project participant</b> |    |                    |    |                             |
| NA                                                   |    |                    |    |                             |
| <b>DOE assessment</b>                                |    |                    |    | <b>Date: DD-Month-YYYY</b>  |
| NA                                                   |    |                    |    |                             |

**Table 3. CAR from this verification**

|                                                                                                                          |    |                    |     |                            |
|--------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|----------------------------|
| <b>CAR ID</b>                                                                                                            | 01 | <b>Section no.</b> | 4.1 | <b>Date: 14-April-2021</b> |
| <b>Description of CAR</b>                                                                                                |    |                    |     |                            |
| During Desk review, following Discrepancies has been found:                                                              |    |                    |     |                            |
| 1. Contents Page and Section 1.3 of Monitoring report is not in-line with the VCS MR template. Corrective action sought. |    |                    |     |                            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 2. Information on the implementation and actual operation in section 1.1 of the MR of the project activity, including relevant dates (e.g., construction, commissioning, and start of operation) are missing. Supporting related to the same is also not submitted to the assessment team. Corrective action sought<br>3. Font size throughout the MR is not in line with the guidelines to complete VCS MR. Corrective action sought.<br>4. Title of authorized ministry for providing indicators of sustainable development is not in line with Host country webpage. Thus, corrective action sought.<br>5. In order to verify Technical specifications of Solar PV Modules and invertors mentioned in section 3.1 of MR. PP is requested to submit the manufactures technical details to assessment team.                                                                                                                                                                                                                                                                                                  |                          |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Date: 11-May-2021</b> |
| 1. Contents page and section 1.3 of the MR has now been revised and made consistent with th VCS MR template.<br>2. The requested information has now been updated in the MR and supportings for the same has also been provided.<br>3. Discrepancies observed in font size is being rectified in VCS MR V02<br>4. Title of authorized ministry has now been updated.<br>5. Technical details are now being attached in this submission.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |
| VCS MR V02, Technical specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Date: 25-MAY-2021</b> |
| 1. Required rectification for given section has been made by PP and same found in line with the guidelines to complete VCS MR template. Hence <b>CAR is closed</b> .<br>2. PP has revised section 1.1 of MR and mention Information related to implementation and actual operation of the project activity. PP also mentioned commissioning dates of units in section 3.1 of revised MR. Assessment team verified same with the copies of commissioning certificate. Both Found consistent with each other thus accepted and <b>CAR is closed</b> .<br>3. In revised MR, PP has maintained the Font type and size as per the VCS MR guidelines. Hence <b>CAR is closed</b> .<br>4. Title of authorized ministry for providing indicators of sustainable development has been rectified by PP in revised MR. Same found inline with the official website. Thus, accepted and <b>CAR is closed</b> .<br>5. Assessment team has verified the technical specification of technologies used in the project activity with the help of technical document of all units submitted by PP. Hence <b>CAR is closed</b> . |                          |

|                                                                                                                                                                                                                                          |    |                    |     |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|----------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                            | 02 | <b>Section no.</b> | 4.1 | <b>Date:</b> 14-April-2021 |
| <b>Description of CAR</b>                                                                                                                                                                                                                |    |                    |     |                            |
| Break down details of Solar PV modules is missing in MR. PP also requested to submit the supporting evidence of break downs (plant log book for the monitoring period) to assessment team for verification. Corrective action is sought. |    |                    |     |                            |

|                                                                                                                                                                                                                                                                                              |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>Project participant response</b>                                                                                                                                                                                                                                                          | <b>Date: 11-May-2021</b> |
| Breakdown details are now being updated in VCS MR V02 and supportings for the same has also been submitted.                                                                                                                                                                                  |                          |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                         |                          |
| VCS MR V03 and Breakdown details                                                                                                                                                                                                                                                             |                          |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                        | <b>Date: 25-MAY-2021</b> |
| PP has mentioned operational breakdown details of all units of project activity in the appendix II of revised MR. Assessment team finds no major breakdown during the current monitoring period which affect the total achieved emission reduction. Thus, accepted and <b>CAR is closed.</b> |                          |

|                                                                                                                                                                                                                                                              |    |                    |     |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-----------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                                                | 03 | <b>Section no.</b> | 4.1 | <b>Date :</b> 14-April-2021 |
| <b>Description of CAR</b>                                                                                                                                                                                                                                    |    |                    |     |                             |
| During the review of documents submitted by PP, assessment team found that the following documents are missing;                                                                                                                                              |    |                    |     |                             |
| <ol style="list-style-type: none"> <li>1. Power Purchase agreement for the project activity</li> <li>2. Declaration regarding avoidance of double counting of emission reductions in the other GHG trading programmes and REC mechanism of India.</li> </ol> |    |                    |     |                             |
| PP is requested to submit above documents for verification.                                                                                                                                                                                                  |    |                    |     |                             |
| <b>Project participant response</b>                                                                                                                                                                                                                          |    |                    |     | <b>Date :</b> 17/05/2021    |
| The missing documents mentioned above are now being provided.                                                                                                                                                                                                |    |                    |     |                             |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                         |    |                    |     |                             |
| Power Purchase agreements for the project activity and Declaration regarding avoidance of double counting.                                                                                                                                                   |    |                    |     |                             |
| <b>DOE assessment</b>                                                                                                                                                                                                                                        |    |                    |     | <b>Date: 25-MAY-2021</b>    |
| PP has submitted following document in support of revised MR: -                                                                                                                                                                                              |    |                    |     |                             |
| <ol style="list-style-type: none"> <li>1. Power Purchase Agreement of all units</li> <li>2. VCS Declaration, dated 02-April-2021</li> </ol>                                                                                                                  |    |                    |     |                             |
| Assessment team found above documents consistent with the revised MR. thus accepted and <b>CAR is closed.</b>                                                                                                                                                |    |                    |     |                             |

|                                                                                                                                                                             |    |                    |       |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-------|----------------------------|
| <b>CAR ID</b>                                                                                                                                                               | 04 | <b>Section no.</b> | 4.2.2 | <b>Date:</b> 14-April-2021 |
| <b>Description of CAR</b>                                                                                                                                                   |    |                    |       |                            |
| PP is requested to provide supporting documents of ongoing communication with local stakeholders as per requirement of Para 3.16.3 and 3.16.4 of the VCS standard V.4.0.    |    |                    |       |                            |
| <b>Project participant response</b>                                                                                                                                         |    |                    |       | <b>Date:</b> 17/05/2021    |
| Supportings for ongoing communication with local stakeholders are now being submitted.                                                                                      |    |                    |       |                            |
| <b>Documentation provided by project participant</b>                                                                                                                        |    |                    |       |                            |
| Grievance registers                                                                                                                                                         |    |                    |       |                            |
| <b>DOE assessment</b>                                                                                                                                                       |    |                    |       | <b>Date: 25-MAY-2021</b>   |
| PP has submitted Grievance Registers of the all units of the project activity. Assessment team found no major grievances has been made by local stakeholders during current |    |                    |       |                            |

monitoring period. Moreover, Registers also justify that the communication with local stakeholders is being implemented continually. thus, accepted and **CAR is closed**.

### Accuracy of GHG Emission Reduction and Removal Calculations

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |             |     |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-----|--------------------------|
| CAR ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 05 | Section no. | 4.4 | Date : 14-April-2021     |
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |             |     |                          |
| <ol style="list-style-type: none"> <li>Value of Parameter “EG<sub>facility,y</sub>” mentioned in MR is not consistent throughout the MR. thus corrective action sought.</li> <li>PP requested to submit all supporting evidence of electricity supplied to grid and Invoices for cross check to assessment team.</li> <li>The value for parameter “EG<sub>facility,y</sub>” is reserved till the supporting is submitted</li> </ol>                                                                              |    |             |     |                          |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |             |     | <b>Date: 11-May-2021</b> |
| <ol style="list-style-type: none"> <li>The value of EG<sub>facility,y</sub> are now being made consistent throughout the MR</li> <li>Invoices and JMRs as supportings are now being submitted</li> </ol>                                                                                                                                                                                                                                                                                                         |    |             |     |                          |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |             |     |                          |
| VCS MR V02, Revised ER sheet, JMRs & Invoices                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |             |     |                          |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |             |     | <b>Date: 25-MAY-2021</b> |
| <ol style="list-style-type: none"> <li>PP has revised the MR and value for the monitoring parameter “EG<sub>facility,y</sub>” is found consistent throughout the MR. hence <b>CAR is closed</b>.</li> <li>Copies of all JMRs and Invoice has been submitted to assessment team by PP. Assessment Team finds value for monitoring parameters are in line with the given documents. Also, Calculation has been made conservatively as per applied methodology. Thus, accepted and <b>CAR is closed</b>.</li> </ol> |    |             |     |                          |

### Quality of Evidence to Determine GHG Emission Reductions and Removals

|                                                                                                                                                                                                                                                                                                                                                                                                                               |    |             |     |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-----|---------------------------|
| CAR ID                                                                                                                                                                                                                                                                                                                                                                                                                        | 06 | Section no. | 4.5 | Date : 14-April-2021      |
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                                                                                                                                     |    |             |     |                           |
| The detailed information of monitoring equipment’s such as serial number of meters, make, calibration date dates, due date of calibration are provided in MR. However, to verify the same Calibration certificates of all units are also not submitted to the assessment team.                                                                                                                                                |    |             |     |                           |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                           |    |             |     | <b>Date : 11-May-2021</b> |
| Calibration certificates are now being attached in this mail.                                                                                                                                                                                                                                                                                                                                                                 |    |             |     |                           |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                          |    |             |     |                           |
| Calibration reports.                                                                                                                                                                                                                                                                                                                                                                                                          |    |             |     |                           |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                         |    |             |     | <b>Date: 25-MAY-2021</b>  |
| PP has mentioned Detailed information related to monitoring equipment’s and its calibration in the Appendix I of revised MR. Moreover, PP also submitted Copies of calibration certificates relevant to the current monitoring period in order to verify the calibration details. Assessment team found all details are consistent and there is no any delayed in calibration period. Thus, accepted and <b>CAR is closed</b> |    |             |     |                           |

|                           |    |             |     |                      |
|---------------------------|----|-------------|-----|----------------------|
| CAR ID                    | 07 | Section no. | 5.4 | Date : 14-April-2021 |
| <b>Description of CAR</b> |    |             |     |                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Following are the observation in the ER calculation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |
| <ol style="list-style-type: none"> <li>1. The emission reduction calculation value is reserved till the submission of documents.</li> <li>2. Comparison of achieved emission reduction with estimated emission reduction is missing in MR. Corrective action is sought for the same.</li> </ol>                                                                                                                                                                                                                                    |                           |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Date : 11-May-2021</b> |
| <ol style="list-style-type: none"> <li>1. Supporting documents are now being submitted</li> <li>2. VCS MR V02 has now been updated with the details of comparison between estimated ERs and actual ERs achieved during this monitoring period.</li> </ol>                                                                                                                                                                                                                                                                          |                           |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |
| JMRs & Invoices, revised ER sheet and VCS MR V02.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Date: 25-MAY-2021</b>  |
| <ol style="list-style-type: none"> <li>1. Amount of total electricity generated throughout the current monitoring period is inline with the copies of JMRs and invoices. Thus, the Calculation for the achieved emission reduction is correct and accepted. hence <b>CAR is closed</b>.</li> <li>2. In section 5.4 of revised MR, PP has successfully calculated and mentioned comparison of achieved emission reduction with estimated emission reduction. Assessment team found it correct thus <b>CAR is closed</b>.</li> </ol> |                           |

**Table 4. FAR from this verification**

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

## APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

### Verification team member

| No. | Role                          | Type of resource | Last name  | First name | Affiliation<br>(e.g. name of central or other office of DOE 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<br>(e.g. name of central or other office of DOE or outsourced entity) |
|-----|-------------------------------------------------|------------------|-----------------|------------|-----------------------------------------------------------------------------------|
| 1.  | Technical reviewer (TR) / Technical Expert (TE) | EI               | Xue             | Denny      | 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. Denny Xue** (Master's Degree in Environmental Engineering, Bachelor's Degree in Thermal Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project

assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and technical review with Shen Applus+. Before he joined Applus+ LGAI, he has been working for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.

## APPENDIX 4: ABBREVIATIONS

| Abbreviations     | Full texts                      |
|-------------------|---------------------------------|
| BM                | Build Margin                    |
| CAR               | Corrective Action Request       |
| CDM               | Clean Development Mechanism     |
| CER               | Certified Emission Reduction(s) |
| CEA               | Central Electricity Authority   |
| CL                | Clarification request           |
| CM                | Combined Margin                 |
| CMS               | Central Monitoring system       |
| CO <sub>2</sub>   | Carbon dioxide                  |
| CO <sub>2</sub> e | Carbon dioxide equivalent       |
| DNA               | Designated National Authority   |
| DOE               | Designated Operational Entity   |
| 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        |
| PP                | Project Participant             |

## APPENDIX 5: CALIBRATION DETAILS OF THE METERS

| Name of the SPVs                 | Site                      | Capacity (MW) | Main Meter Details                                                                                                                                                                                                             | Check Meter Details                                                                                                                                                                                                            | Calibration Date <sup>6</sup> | Due date          | Calibration Compliance |
|----------------------------------|---------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|------------------------|
| Azure Power Jupiter Pvt Ltd      | Hardoi                    | 20            | SL. No. : UP-0202-A<br>Make: L&T<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : UP-0203-A<br>Make: L&T<br>Accuracy class: 0.2 s                                                                                                                                                                      | 01-March-2019                 | 29-March-2024     | Yes                    |
|                                  | Hamirpur                  | 10            | SL. No. : 0015197361<br>Make: L&T<br>Accuracy class: 0.2 s                                                                                                                                                                     | SL. No. : UP-0008-A<br>Make: L&T<br>Accuracy class: 0.2 s                                                                                                                                                                      | 22-September-2017             | 21-September-2022 | Yes                    |
| Azure Power Thirty Seven Pvt Ltd | Rachu, Marchal and Veljal | 100           | SL. No. : APZ00498<br>Make: Secure<br>Accuracy class: 0.2 s                                                                                                                                                                    | SL. No. : APZ00499<br>Make: Secure<br>Accuracy class: 0.2 s                                                                                                                                                                    | 12-January-2018               | 11-January-2023   | Yes                    |
| Azure Power Venus Pvt Ltd        | Dakore                    | 40            | <b>Aata Substation Circuit-I</b><br>Main Meter<br>SL. No. : UP3383A<br>Make: Secure<br>Accuracy class: 0.2 s<br><b>Aata Substation Circuit-II</b><br>Main Meter:<br>SL. No. : UP3381A<br>Make: Secure<br>Accuracy class: 0.2 s | <b>Aata Substation Circuit-I</b><br>Check Meter: SL. No. : UP3384A<br>Make: Secure<br>Accuracy class: 0.2 s<br><b>Aata Substation Circuit-II</b><br>Check Meter:<br>SL. No. : UP3382A<br>Make: Secure<br>Accuracy class: 0.2 s | 01-December-2018              | 30-November-2023  | Yes                    |
| Azure Power Thirty Six Pvt Ltd   | Anantppuram               | 50            | SL. No. : APZ00507<br>Make: Secure<br>Accuracy class: 0.2 s                                                                                                                                                                    | SL. No. : APZ00508<br>Make: Secure<br>Accuracy class: 0.2 s                                                                                                                                                                    | 28-April-2018                 | 27-April-2023     | Yes                    |
| Azure Power Thirty Three Pvt Ltd | Dhari                     | 35            | SL. No. : GJ-3977-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : GJ-3979-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | 02-November-2018              | 01-November-2023  | Yes                    |
|                                  | Semaliya                  | 30            | SL. No. : GJ-4049-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : GJ-4050-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | 10-December-2018              | 09-December-2023  | Yes                    |
|                                  | Vadol                     | 40            | SL. No. : GJ-3980-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : GJ-3981-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | 01-November-2018              | 31-October-2023   | Yes                    |
|                                  | Netramali                 | 40            | SL. No. : GJ-4095-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : GJ-4096-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | 07-March-2019                 | 06-March-2024     | Yes                    |
|                                  | Sanes                     | 50            | SL. No. : GJ-4145-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : GJ-4146-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | 13-March-2019                 | 12-March-2024     | Yes                    |
|                                  | Muloj                     | 40            | SL. No. : GJ-4093-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : GJ-4094-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | 22-February-2019              | 21-February-2024  | Yes                    |
|                                  | Vartol                    | 25            | SL. No. : GJ-4047-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | SL. No. : GJ-4048-A<br>Make: EDM<br>Accuracy class: 0.2 s                                                                                                                                                                      | 09-March-2019                 | 08-March-2024     | Yes                    |

No delay in calibration observed for all meters as same are calibrated within stipulated frequency of once in 5 years.

<sup>6</sup> As Project is greenfield, meters installed for all SPVs were pre-calibrated.