



# Verified Carbon Standard

## 100 MW Solar project in Bhadla in Rajasthan



By KBS Certification Services Pvt. Ltd.

|                      |   |
|----------------------|---|
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## Summary:

KBS Certification Services Pvt. Ltd. has been contracted by, “Clean Sustainable Energy Pvt. Ltd.” to undertake the third periodic verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘100 MW Solar project in Bhadla in Rajasthan’ (VCS PROJECT ID 1842) for the monitoring period 01/04/2018 to 30/09/2020 in the initial monitoring report version 01 dated 15/10/2020.

Project activity is the operation of 100 MW<sub>AC</sub> solar power project, commissioned in 2 phases of 50 MW<sub>AC</sub> each (1<sup>st</sup> phase on 16/09/2018 and 2<sup>nd</sup> on 06/10/2018) in Bhadla in the state of Rajasthan, India. The project activity involves electricity generation using clean renewable energy source i.e. solar and supplies the generated electricity to the Indian grid system via Power Purchase Agreement (PPA) with Solar Energy Corporation of India (SECI). The project displaces the electricity produced by fossil fuel based power plants, and thereby contributes to sustainable development through reduction in greenhouse gas (GHG) emissions.

A risk-based approach has been followed to perform the verification of the project activity. In the course of the verification, 03 Corrective Action Requests (CARs), 00 Clarification (CL) and 00 Forward Action Requests (FAR) were raised.

The verification is based on the VCS PD, proof of title, proof of right, additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and supporting documents made available to the verification team by project proponent.

As a result of the verification, the verification team confirms that:

- The project fulfils criteria of VCS Standard Version 4.0.
- The project is in line with all relevant VCS requirements.
- Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board and VCS Association;
- All information and references relevant to the project activity resulting in emission reductions;
- The monitoring is transparent, adequate and in line with applied baseline and monitoring methodology of ACM0002 – Grid connected electricity generation from renewable sources, version 19.0.
- Based on the information seen and evaluated we confirm that the implementation of the project has resulted in 114,035 tCO<sub>2</sub>e emission reductions during period 01/04/2020 to 30/09/2020.

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# 1 INTRODUCTION

## 1.1 Objective

KBS Certification Services Pvt. Ltd. has been contracted by, “Clean Sustainable Energy Pvt. Ltd.” to undertake the third periodic verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘100 MW Solar project in Bhadla in Rajasthan’ (VCS PROJECT ID1842) for the monitoring period 01/04/2020 to 30/09/2020 (both dates included). The VCS projects must undergo an independent third-party verification and certification of emission reductions as the basis for issuance of Certified Emission Reductions (CERs).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The project activity has been implemented and operated as per the registered project description (PD) and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- Monitoring report and other supporting documents are complete;
- The data is recorded and stored as per the monitoring methodology and approved monitoring plan.
- To confirm that the monitoring system is implemented and fully functional to generate Certified Emission Reductions (CERs) without any double counting, and
- To establish that the data reported are accurate, complete, consistent, transparent and free of material error or omission by checking the monitoring records and the emissions reduction calculation.

## 1.2 Scope and Criteria

The verification scope is defined as an independent and objective review of monitoring report, VCS project description (VCS PD), including the monitored data and other relevant documents made available to verifier and information collected through performing interviews during remote assessment of the project activity.

The project is assessed against the requirements of VCS standard version 04 and related rules and guidance. KBS has, based on the recommendations in the latest version of Verified Carbon standard, and employed a rule-based approach (as criteria) in the verification, focusing on the identification of significant reporting rules and the reliability of project monitoring.

The aspects to be covered under the purview of verification are:

- Ensure that the project activity has been implemented and operated as per the registered VCS PD and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place as per the documents provided by the client and during remote audit;

- Ensure that the monitoring report and other supporting documents provided are complete
- Ensure that the practiced monitoring system and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved CDM methodology;
- Evaluate the data recorded and stored are as per the monitoring methodology.

### 1.3 Level of Assurance

Reasonable level of assurance

The verification is based on the VCS PD, MR, proof of title, proof of right, additional documents related to baseline and monitoring methodology, the subsequent background investigation, monitoring plan, follow-up interviews and supporting documents made available to the verification team by project proponent. The information in these documents is reviewed against the requirements of VCS Standard Version 4.0. KBS has employed a risk-based approach in the verification, focusing on the identification of significant risks for project implementation and the generation of Emission Reductions.

The items covered in the verification are described below:

- Criteria of VCS Version 04 (VCS Program guide Version 04 & VCS Standard Version 04)
- Criteria of CDM approved methodology, ACM0002- Grid connected electricity generation from renewable sources- version 19.0
- VCS Monitoring Report
- Monitoring Plan
- Background investigation and follow up interviews
- Stakeholder feedback
- Registered VCS-PD and Validation Report
- Monitoring report and Verification report for previous monitoring period
- project's compliance with other relevant rules, including the project country (India) legislation and assurance to stakeholders of the quality

Furthermore, the verification team used additional documentation by third parties like host party legislation, technical reports referring to the project design or to the basic conditions and technical data available on public domain. A desk review is carried out to assess the following:

- Compliance with relevant law and regulations
- Stakeholder comments (If any)
- Proof of title
- Single line diagram and site location map

- Technical specifications of the Solar panels
- Start date supportive
- Ownership documents
- Remote auditing (28/10/2020) for verification
- Training records
- Calibration Certificates
- Export/Import data records
- Operation & Maintenance / Maintenance/Shut down records

The Verification team has checked all the above-mentioned details and confirms that all the information provided is accurate.

Through the remote interviews host country rule and regulations related to project activity, Project description, technological measures, Implementation, Operation, Management of project activity and Training of personnel, Baseline and Monitoring plan, Stakeholder consultation etc. has been checked and found appropriate.

KBS applies the risk-based approach aimed at focusing on high risk issues to the verification results whilst not omitting any part of the mandatory processes. A few discrepancies were found during the verification and the findings were submitted to the project proponent, indicated under the titles corrective action requests (CARs) and clarification requests (CLs). CARs and CLs required PP to take relevant actions, based on which the Monitoring report was revised and re-submitted to the verification team.

Hence, the above steps were followed for achieving the level of assurance in verification report. Based on the process and procedures conducted, KBS confirms that the information in the MR:

- is materially correct and is a fair representation of the actual project details, and
- is prepared in accordance with VCS requirements /4/ and the applied CDM methodology/5/ for information pertaining to GHG qualification, monitoring and reporting.

The verification work is carried out as per this requirement and the verification opinion is assured, provided the credibility of all above. Details are presented in the Verification statement in section 5 below.

## 1.4 Summary Description of the Project

Project activity is the operation of 100 MW<sub>AC</sub> solar power project in Bhadla state of Rajasthan, India. The project activity involves electricity generation using clean renewable energy source i.e. solar and supplies the generated electricity to the Indian grid system via Power Purchase Agreement (PPA) with Solar Energy Corporation of India (SECI) /16/. The start date of the project was considered as 16/09/2018 during registration /3.1/, which is based on the commissioning of the first phase of the project activity, as verified from the commissioning certificate /12/. The project displaces the electricity produced by fossil fuel based power

plants, by using clean renewable source to generate electricity and thereby contributes to sustainable development through reduction in greenhouse gas (GHG) emissions.

The project activity has a 10 year (twice renewable) crediting period, with the duration of first 10 year crediting period from 16/09/2018-15/09/2028 /3.1/. The first monitoring period of the project activity was verified jointly with the validation of the project activity /3.1//3.2/. Second monitoring period of the project was considered from 01/11/2018-31/03/2020, and resulted in net emission reductions of 298,718 (tCO<sub>2</sub>e) /3.3//3.4/. The third monitoring period (01/04/2020-30/09/2020) considered for verification falls under the first crediting period of the project activity, with its start date consecutive to the end date of 2nd monitoring period.

During the remote audit inspection, location (as mentioned in Table, section 1.7 of MR) and all the technical aspects of the project activity (equipment, serial no., type, date of calibration etc.) mentioned in the PD /3.1/ have been verified. The same was also crosschecked during the desk review of supporting documents /6//7//15/.

It was also confirmed (through remote interviews) that the project activity has been operational since commissioning (16/09/2018) /12/. During the third monitoring period i.e. from 01/04/2020 to 30/09/2020, the project has generated 121,723.70 MWh net electricity, thereby resulting in total emission reduction of 114,035 tCO<sub>2</sub>e.

Project entity information as verified is presented below:

| Item             | Data  |
|------------------|---|
| Project Entities | Clean Sustainable Energy Pvt. Ltd.(Project proponent)   |
|                  | WeAct Pty Ltd (Authorized representative and Sole Focal point for all the communications with the DOE, VCS Board and Registry.) |
|                  | Emergent Ventures India Pvt. Ltd. (Project Consultant)  |

## 2 VERIFICATION PROCESS

### 2.1 Method and Criteria

The verification process was carried out in line with the requirements of VCS Version 04 /4/. Standard auditing techniques and KBS's CDM Procedures were also applied during the verification. A risk-based approach was followed to carry out verification and access all the factors and concerns that relate to the issuance of emission reductions from a project activity.

They include:

- The review of the calculation of the carbon emission factor for the electricity grid.
- Identification of all the sources contributing to the project emissions and emission reductions.
- Authenticity of the provided data is checked.
- A risk-based analysis is carried out to ensure a clear and transparent assessment. The risks involved in this process are mainly with the informational flows and data recording.

KBS follows a risk-based verification approach, wherein a desk review of the project documentation is undertaken, which is followed by a remote audit by the members of verification team. The verification protocol is filled by the verification team that is based on standard auditing practices and VCS requirements. The verification protocol provides transparent means to record the observations by the verification team members and the non-conformities, if any. The verification protocol is an internal document, and available on request.

**Duration of Verification:**

|                           |                                      |
|---------------------------|--------------------------------------|
| Verification Contract     | 19/10/2020                           |
| On site verification      | NA (Justification section 2.4 below) |
| Draft Verification Report | 12/11/2020                           |
| Final Verification Report | 19/11/2020                           |

## 2.2 Document Review

A desk review is undertaken, involving but not limited to,

- A review of the data and information presented to verify their completeness;
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures;
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

The list of documents reviewed is included in the section ‘References’.

## 2.3 Interviews

Please refer section 2.4, where complete list of interviewed personnel and key points discussed is provided.

## 2.4 Site Inspections

As a result of the COVID-19 pandemic, taking into account the rules of relevant national and local authorities (local to the VVB offices as well as to locality of the site visits), World Health Organization (WHO) recommendations, policies of the VVB, email clarification for Verra guidance on site visits, notification of Covid-19 Travel Guidance for Projects <https://verra.org/covid-19-travel-guidance/> and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return from specific countries), the VVB has skipped the on-site visit. Further Email from VERRA dated 24/03/2020 from “Andrew Beauchamp” has been referred as per which *“The VCS Program does not explicitly mandate site visits as part of the validation and verification process, only that VVBs must achieve a reasonable level of assurance on all validations and verifications (per Section 4.1.2 of the VCS Standard, v4.0). Therefore, where a VVB can achieve a reasonable level of assurance without conducting a site visit, or through a remote site visit, this is in conformance with the VCS rules, and no request for an exemption or pre-approval from Verra is required. However, where a validation/verification has been conducted without a site visit, or through a remote site visit, please ensure that the applicable section of the validation/verification report includes a discussion of how a reasonable level of assurance was achieved without an in-person site visit”*.

Hence, the VVB has used other standard auditing techniques for validation or verification as referred to in VCS Rules/requirements, VCS Validation and Verification Manual version 3.2/4/.

Verification team has used the following alternative means for its assessment and to justify that they are sufficient for the purpose of verification. Along with desk review, audit team has conducted remote audit interview as follows:

- A complete desk review of the MR, previously registered MR and verification reports, as well as all applicable country legal requirement and supportive evidences have been checked by the verification team.
- Verification team has performed WhatsApp interview with PP in order to check implementation, project boundary, current situation, monitoring and metering equipment, monitoring procedures, calibration etc.
- Cross-check evaluation, for information received from interviews, under the scope of all information and references provided in MR and supporting documents.
- A check of the monitoring equipment including performance and observations of monitoring practices against the requirements of the registered VCS PD and the selected methodology.

Details of interviewees, topics covered and additional information are presented below:

|               |  |
|---------------|--|
| <b>Dates:</b> | 28/10/2020 (WhatsApp Video inspection and interview) |
|---------------|--|

| Key points discussed:   | Name of person, interviewed | Designation, Organization   |
|---|-----------------------------|---|
| Operational data<br>Calibration   | Atul Sanghal                | Project Consultant,<br>Emergent Ventures India<br>Pvt. Ltd.                                   |
| Data collection<br>QA/QC procedures<br>Calculation of ERs<br>VCS requirements | Joginder Pal                | PP representative<br>(Responsible for operation<br>and monitoring of the<br>project activity) |

## 2.5 Resolution of Findings

KBS applies the risk-based approach aimed at focusing on high risk issues to the verification results whilst not omitting any part of the mandatory processes. A few discrepancies were found during the verification and the findings were submitted to the project proponent, indicated under the titles corrective action requests (CARs) and clarification requests (CLs). CARs and CLs require the PP to take relevant actions. Criteria for judging items as CAR or CL are as follows:

### **Corrective action request (CAR):**

- the project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions
- the Voluntary Carbon Standard's requirements have not been met, or
- there is a risk that emission reductions cannot be monitored or calculated.

### **Clarification request (CL):**

- Information is insufficient or not sufficiently clear to determine whether the applicable VCS requirements have been met.

CARs and CLs are to be resolved or closed out if the PP modifies the project description, rectifies the MR or provides adequate additional explanations or evidence that satisfies the concerns. If this is not completed, the project activity cannot be recommended for issuance under VCS registry.

The monitoring report was revised addressing the CARs & CLs issued by KBS. After reviewing the revised and resubmitted MR/1.2/; resolving the CARs & CLs raised and outstanding concerns, KBS issues this final verification report and opinion.

00 CLs and 03 CARs were found during verification and closed satisfactorily. The list of CARs/CLs raised and the response provided, the means of verification, reasons for their closure and references to correction in the MR are provided in appendix 2 of this report. The revised MR/1.2/ with changes incorporated as per the issues raised were rechecked with the documentary evidences and found to be inline.

### **Forward Action Request (FAR):**

FAR is to be raised to highlight issues related to project implementation that require review during the verification of the project activity. FARs do not relate to VCS requirements for registration.

No FAR was raised during the monitoring period.

## **2.6 Eligibility for Validation Activities**

KBS is conducting the verification activity, the validation and previous verification was performed by a similar VVB. KBS has a valid UNFCCC accreditation in the sectoral scope from UNFCCC.

# **3 VALIDATION FINDINGS**

## **3.1 Participation under Other GHG Programs**

The project is not registered or seeking registration under any other GHG programs. The project has not participated under any other GHG programme.

## **3.2 Methodology Deviations**

The verification team confirms that the registered project, under the current monitoring period (i.e. third monitoring period from 01/04/2020-30/09/2020), complies with the requirements of the applied monitoring methodology ACM0002 version 19.0/5/. Therefore, no methodology deviations are applied during the monitoring period.

**Finding:** No findings were raised.

## **3.3 Project Description Deviations**

No deviation in the project description has been applied to the project activity during the monitoring period.

**Finding:** No findings were raised.

## **3.4 Grouped Project**

Not applicable, as the project activity is not a grouped project.

## 4 VERIFICATION FINDINGS

### 4.1 Project Implementation Status

The project activity is in operation stage as evidenced by the remote inspection (WhatsApp video inspection) of the site. All the physical components and project boundary are in conformity with the description in registered VCS PD /3.1/, and other registered documents of previous monitoring period /3.3//3.4/. The capacity of project equipment's have been confirmed during the remote inspection, also through the technical specifications /7/ and found in-compliance with the registered VCS PD/3.1/ and monitoring report /3.3/ of the previous monitoring period.

As confirmed during the remote interviews and inspection, electricity generation from project activity is metered at 220/33 KV Adani Renewable Energy Park Pooling substation (where it is connected through its individual dedicated feeder). Feeder wise metering arrangements quantifies the electricity delivered to the 400kV/220RVPNL GSS substation by the PP. There is a common metering point at 400/220 KV RVPNL substation for both the Line 1 & Line 2 coming from 220/33 kV Adani substation. The metering point at both substations consists of both main & check meters (ABT Meters), which help in evaluating the transmission losses. During the remote audit inspection, the metering arrangement was confirmed to be as per the monitoring layout and monitoring points described under section 4.3 of the monitoring report (see figure), which was found to be consistent with the registered monitoring plan /3.1/.

On the basis of the remote inspection and the reviewed project documentation /6//7//8//11//15/, the verification team confirms that the project was implemented and operated as described in the registered VCS PD/3.1/. The project activity was commissioned on 16/09/2018 as verified from the commissioning certificate of the project activity /12/. As confirmed during the remote audit (WhatsApp video inspection and interview), the project activity is in continuous operation since commissioning and there is no such incident reported during the current monitoring period which may impact the operation & capacity design of the project activity. Therefore, no events have happened that may impact the GHG emission reductions or removals and monitoring in this monitoring Period. Same has been checked from the operational data during remote auditing.

#### **Ownership and other programs:**

PP has declared that the project is not registered in other GHG programs, PP confirmed that the project will only be going forward with VCS registry, as declared in VCS-PD /3.1/. Thus emission reductions generated by project will be solely claimed by PP and PP has the right of use, which is acceptable. Net GHG emission reductions or removals generated by this project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions as the host country i.e. India is not a participant in any emission trading programs or nor does it have any binding limits.

PP will not claim the carbon credits under any other GHG emission reduction scheme for the crediting period under VCS and PP has provided declaration on the same during the validation /3.2/. Hence, there is no possibility of double counting.

**Management and operational system:**

Verification team was able to verify that authorities and responsibilities /14/ for monitoring and reporting of all data related to the emission reductions were clearly defined for the third monitoring period from 01/04/2020 to 30/09/2020.

The allocation of the responsibilities is documented in a written form and is followed as described in the registered VCS PD/3.1/. Routines for the archiving of data are defined and documented. The electricity generation records /8/ were verified and found that the data is consistent with the provided in the final MR/1.2/ and ER sheets/2.2/.The current status of the project activity was verified remotely through the video observation of SCADA system, indicating the real-time generation data to confirm that the project is fully operational.

The monitoring plan described in section 4.3 of the MR/1.2/ is confirmed to be correct. All the parameters of the monitoring plan are monitored using appropriate metering system.

The verification team has remotely interviewed the plant personnel involved in the monitoring of the parameters that are used to determine the emission reductions of the CER project. It is confirmed based on the interviews and training records /13/, that the plant's team is competent enough to monitor the parameters as described in the monitoring plan /3.1/.

As discussed above, the verification team concludes that management and operational system of the project is implemented and operated well. Thus, it ensures the quality of data which is required in calculating the emission reductions.

**Implementation status of the monitoring plan:**

Verification team confirms through remote inspection (refer to section 2.4 for details) and from the document review /6//7//8//11//15/, that the actual monitoring system complies with the monitoring plan mentioned in the registered VCS PD /3.1/.

During the verification, all relevant monitoring parameters of the registered monitoring plan have been verified with regard to the appropriateness of the verification method; the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. All monitoring parameters have been measured / determined without material misstatements and are in line with all applicable standards and relevant requirements. It is confirmed that the monitoring mechanism is effective and reliable.

Therefore, from the document review/6//7//8//11//15/ and remote inspection, it is confirmed that all the parameters were monitored in accordance with the registered monitoring plan during the monitoring period. Following are the details of monitoring in accordance with the monitoring plan of the registered VCS PD/3.1/:

|                |         |
|----------------|---------|
| Data/Parameter | EGPJ, y |
| Data unit      | MWh     |

|   |   |                     |               |             |               |
|---|---|---------------------|---------------|-------------|---------------|
| Description   | Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh  |                     |               |             |               |
| Source of data  | <p>Joint Meter Readings based Apportioning note issued by Rajasthan DISCOM</p> <p>The verification team has checked the source of data /11.2/ and found it to be consistent with the reported data /2.2/. The same has been cross verified with the monthly invoices issued by the PP /11.1/</p>  |                     |               |             |               |
| Description of measurement methods and procedures to be applied | <p>As verified during the remote audit interview, the net electricity supplied to the grid by the project activity is calculated as a difference of electricity exported to the grid, electricity imported from the grid obtained from joint meter reading and apportioning certificates/credit notes issued by Rajasthan DISCOM as per below equation:</p> $EGPJ,y = EGExport - EGImport - Transmission losses$ <p>As confirmed through the interview, the calculation is done by DISCOM and the PP has no control over the authority for the calculation. Based on the joint meter reading, apportioning certificates/credit notes, the project developer raises the invoice.</p> <p>The same has been confirmed from the JMR/11.2/ and invoices/11.1/ raised during the monitoring period.</p>   |                     |               |             |               |
| Frequency of monitoring-recording                               | The parameter is monitored continuously and the accumulated generation data is recorded on monthly basis as confirmed by the verification team through remote interviews.   |                     |               |             |               |
| Value monitored   | <p>121,723.70 MWh</p> <p>Monthly values for entire monitoring period reported in the monitoring report and ER calculation sheet were verified from the JMR /11.2/ and found to be consistent. Verification team has also checked the invoices /11/ and the calculations in ER sheet /2.2/ to confirm that the monitored value is accurate and acceptable.</p>   |                     |               |             |               |
| Monitoring equipment  | <p>During the remote video inspection of the project activity, meter details and accuracy of all the metering have been checked with the registered PD/3.1/ and were found to be consistent. The calibration frequency under the registered PD /3.1/ is once in five years, hence valid during the current monitoring period. The installation and working conditions of the meters were checked through calibration certificates /6/, latest photographs /7/ and were found to be satisfactory. The accuracy of the monitoring equipment used to measure the values is 0.2s, which is as per the registered PD/3.1/ and also consistent with the norms defined in the PPA/16/. Details of bi-directional meters are provided in below table:</p> <table border="1" data-bbox="581 1833 1474 1887"> <tr> <td data-bbox="581 1833 805 1887"><b>Energy Meter</b></td> <td data-bbox="807 1833 1029 1887">Main Meter</td> <td data-bbox="1031 1833 1253 1887">Check Meter</td> <td data-bbox="1255 1833 1474 1887">Standby Meter</td> </tr> </table> | <b>Energy Meter</b> | Main Meter    | Check Meter | Standby Meter |
| <b>Energy Meter</b>   | Main Meter  | Check Meter         | Standby Meter |             |               |

|  |   |            |             |               |
|--|---|------------|-------------|---------------|
|  | <b>Details (P4 F1)</b>                    |            |             |               |
|  | <b>Serial No</b>                          | X0682811   | X0682810    | X0682809      |
|  | <b>Make</b>                               | Secure     | Secure      | Secure        |
|  | <b>Accuracy Class</b>                     | 0.2S       | 0.2S        | 0.2S          |
|  | <b>Calibration Date/Installation Date</b> | 09/08/2019 | 09/08/2019  | 08/08/2019    |
|  | <b>Calibration validity</b>               | 5 years    | 5 years     | 5 years       |
|  |   |            |             |               |
|  | <b>Energy Meter Details (P4 F2)</b>       | Main Meter | Check Meter | Standby Meter |
|  | <b>Serial No</b>                          | X0682814   | X0682813    | X0682812      |
|  | <b>Make</b>                               | Secure     | Secure      | Secure        |
|  | <b>Accuracy Class</b>                     | 0.2S       | 0.2S        | 0.2S          |
|  | <b>Calibration Date/Installation Date</b> | 08/08/2019 | 08/08/2019  | 08/08/2019    |
|  | <b>Calibration validity</b>               | 5 years    | 5 years     | 5 years       |
|  |   |            |             |               |
|  | <b>Energy Meter Details (P4 F3)</b>       | Main Meter | Check Meter | Standby Meter |
|  | <b>Serial No</b>                          | X0682817   | X0682816    | X0682815      |
|  | <b>Make</b>                               | Secure     | Secure      | Secure        |
|  | <b>Accuracy Class</b>                     | 0.2S       | 0.2S        | 0.2S          |
|  | <b>Calibration Date/Installation Date</b> | 08/08/2019 | 08/08/2019  | 08/08/2019    |
|  | <b>Calibration validity</b>               | 5 years    | 5 years     | 5 years       |
|  |   |            |             |               |

|  |   |            |             |               |
|--|---|------------|-------------|---------------|
|  | <b>Energy Meter Details (P5 F1)</b>       | Main Meter | Check Meter | Standby Meter |
|  | <b>Serial No</b>                          | X0682820   | X0682819    | X0682818      |
|  | <b>Make</b>                               | Secure     | Secure      | Secure        |
|  | <b>Accuracy Class</b>                     | 0.2S       | 0.2S        | 0.2S          |
|  | <b>Calibration Date/Installation Date</b> | 09/08/2019 | 09/08/2019  | 09/08/2019    |
|  | <b>Calibration validity</b>               | 5 years    | 5 years     | 5 years       |
|  | <b>Energy Meter Details (P5 F2)</b>       | Main Meter | Check Meter | Standby Meter |
|  | <b>Serial No</b>                          | X0682823   | X0682822    | X0682821      |
|  | <b>Make</b>                               | Secure     | Secure      | Secure        |
|  | <b>Accuracy Class</b>                     | 0.2S       | 0.2S        | 0.2S          |
|  | <b>Calibration Date/Installation Date</b> | 09/08/2019 | 09/08/2019  | 09/08/2019    |
|  | <b>Calibration validity</b>               | 5 years    | 5 years     | 5 years       |
|  | <b>Energy Meter Details(P5 F3)</b>        | Main Meter | Check Meter | Standby Meter |
|  | <b>Serial No</b>                          | X0682826   | X0682825    | X0682824      |
|  | <b>Make</b>                               | Secure     | Secure      | Secure        |
|  | <b>Accuracy Class</b>                     | 0.2S       | 0.2S        | 0.2S          |
|  | <b>Calibration Date/Installation Date</b> | 08/08/2019 | 08/08/2019  | 08/08/2019    |
|  | <b>Calibration validity</b>               | 5 years    | 5 years     | 5 years       |

|                     |   |   |             |
|---------------------|---|---|-------------|
|                     | <b>Dedicated Feeder &amp; Metering arrangement (at Substation)</b>  |   |             |
|                     | <b>Line 1</b>   | Main Meter  | Check Meter |
|                     | <b>Serial No</b>  | 18068155  | 18068156    |
|                     | <b>Make</b>   | LNT   | LNT         |
|                     | <b>Accuracy Class</b>   | 0.2S  | 0.2S        |
|                     | <b>Calibration Date/Installation Date</b>   | 01/09/2020  | 01/09/2020  |
|                     | <b>Calibration validity</b>   | 5 years   | 5 years     |
|                     | <b>Line 2</b>   | Main Meter  | Check Meter |
|                     | <b>Serial No</b>  | 18053578  | 18053577    |
|                     | <b>Make</b>   | LNT   | LNT         |
|                     | <b>Accuracy Class</b>   | 0.2S  | 0.2S        |
|                     | <b>Calibration Date/Installation Date</b>   | 01/09/2020  | 01/09/2020  |
|                     | <b>Calibration validity</b>   | 5 years   | 5 years     |
|                     | QA-QC procedures to be applied  | The Joint meter reading at all the metering points at DISCOM substation is taken by the representatives of RVPNL in the presence of Clean Sustainable Energy Pvt. Ltd officials in the form of JMR /11.2/. Based on the data recorded in the JMR/11.2/, electricity supplied to the grid by the project activity is calculated by RVPNL, using the apportioning procedure and energy breakup sheets for each project developer is prepared. The invoices/11.1/ issued by PP have been crosschecked to confirm the same. |             |
| Purpose of the data | As confirmed by the verification team, the data has been used for calculation of Baseline Emissions.  |   |             |
| Calculation method  | N/A   |   |             |
| Comments            | As confirmed during the remote inspection, the collected data will be kept by PP during the crediting period and until two years after the end of the crediting period. |   |             |

**Finding:** CAR 01, CAR 02 and CAR 03 were raised and successfully closed. Refer to appendix 2 for further details.

**Opinion:**

The verification team confirms that

- The project activity has been implemented and operated as per the registered VCS PD /3.1/ and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place, as per the documents provided by the PP/7//8//11//15/ and remote audit inspection.
- The monitoring complies with the requirement of the applied methodology /5/;
- The information inflow (from data generation, aggregation, to recording, calculation and reporting) is included above under each parameter and confirms to the requirement of the PD /3.1/;
- The values included in the monitoring report /1.2/ and corresponding emission reduction sheets /2.2/ are verified and included under each monitoring parameter.

## 4.2 Safeguards

### 4.2.1 No Net Harm

The project activity is the generation of electricity from a clean renewable energy source i.e. solar and does not involve any negative environmental and socio-economic impact. The project activity does not involve any major construction activity except for the installation of the solar PV panels, other accessories and interfacing the generators by setting up HT transmission lines. Therefore, it was exempted for undergoing Environmental Impact assessment as per memorandum issued by Ministry of Environment and Forest dated 07/07/2017 /10.1/ and as also verified from the report by MNRE /10.2/, solar PV project activity operations do not result in direct air pollution, noise pollution.

### 4.2.2 Local Stakeholder Consultation

No comments were received during ongoing communication with local stakeholders. Additionally, the Local Stakeholder Consultation Process was conducted in-line with requirement during project registration with VCS /3.1//3.2/.

## 4.3 AFOLU-Specific Safeguards

This is not an AFOLU project, as can be confirmed from the registered VCS PD /3.1/.

## 4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The verification team has reviewed the emission reduction (ER) spread sheet /2.2/ and checked all the formulae and verified them to be correct and in line with the monitoring plan of the registered VCS PD /3.1/ and the applied monitoring methodology /5/.

All the monitored parameters are described above in section 4.1. All the ex-ante parameters which are used in the calculation of emission reduction are presented in section 4.1 of the MR /1.2/ transparently. It is confirmed that all the ex-ante parameters have been correctly used in the emission reduction calculation.

### **Baseline emissions:**

The baseline emissions (BE<sub>y</sub>) are calculated based on the following formula:

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

Where:

BE<sub>y</sub> = Baseline emissions in year y (tCO<sub>2</sub>e/yr)

EG<sub>PJ,y</sub> = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/yr)

$EF_{grid,CM,y}$  = 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” (tCO<sub>2</sub>/MWh)

And

$EG_{PJ,y} = EG_{Facility,y}$

$EG_{Facility,y}$  = Quantity of net electricity generation supplied by the project plant to the grid in year y (MWh-y)

The Combined margin CO<sub>2</sub> emissions factor in year y (tCO<sub>2</sub>/ MWh),  $EF_{grid,CM,y}$ , is fixed ex-ante for the duration of the crediting period, and is 0.93684 tCO<sub>2</sub>/ MWh

Therefore,

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

$BE_y = 121,723.70 \times 0.93684$

$BE_y = 114,035 \text{ tCO}_{2e}$  (rounded down)

It is noted that the formula and calculation used for baseline emission calculation in the monitoring report and ER sheet /2.2/ is in compliance with the registered VCS PD/3.1/. The default values and data used in the monitoring report /1.2/ is in-line with the registered PD/3.1/. Hence, acceptable to the verification team.

### **Project Emissions:**

In accordance with paragraph 34 of the Methodology ACM0002, Version 19.0/5/, the proposed project activity consists of solar power plants with photovoltaic technology that does not use fossil fuels. Therefore, project emissions are considered zero. Thus, it is in compliance with the registered VCS PD/3.1/.

**PE<sub>y</sub> = 0.**

### **Leakage:**

In accordance with paragraph 56 of the Methodology ACM0002, Version 19.0/5/, no other leakage emissions are considered. Therefore, leakage emissions are considered zero. Thus, it is in compliance with the registered VCS PD/3.1/.

**LE<sub>y</sub> = 0**

The following is the ex-ante parameter used in the ER calculation which are in compliance with registered VCS PD/3.1/:

| Parameter | Description | Justification |
|-----------|-------------|---------------|
|-----------|-------------|---------------|

|                                    |   |   |
|------------------------------------|---|---|
| $EF_{grid,CM,y}$<br>$tCO_{2e}/MWh$ | Combined margin emission factor for Indian grid connected power generation in year y calculated using the latest version of “Tool to calculate the emission factor for an electricity system” | The ex-ante value (0.93684 $tCO_{2e}/MWh$ ) has been determined in the registered VCS-PD /3.1/. Accordingly, the validation report has been checked /3.2/ and the emission factor is found to be appropriate. Hence, it is confirmed that the ex-ante details presented on the ex-ante parameter, in the MR /1.2/ is found appropriate. |
| $EF_{grid,OM,y}$<br>$tCO_{2e}/MWh$ | Simple operating margin emission factor for Indian grid   | The ex-ante value (0.9610 $tCO_{2e}/MWh$ ) has been determined in the registered VCS-PD /3.1/. Accordingly, the validation report has been checked /3.2/ and the emission factor is found to be appropriate. Hence, it is confirmed that the ex-ante details presented on the ex-ante parameter, in the MR /1.2/ is found appropriate.  |
| $EF_{grid,BM,y}$<br>$tCO_{2e}/MWh$ | Simple build margin emission factor for Indian grid   | The ex-ante value (0.8644 $tCO_{2e}/MWh$ ) has been determined in the registered VCS-PD /3.1/. Accordingly, the validation report has been checked /3.2/ and the emission factor is found to be appropriate. Hence, it is confirmed that the ex-ante details presented on the ex-ante parameter, in the MR /1.2/ is found appropriate.  |

The yearly ex-ante estimate of electricity generation was considered as “188,441 MWh/year” for the ex-ante estimation of emission reductions in the VCS-PD /3.1/. However, during the monitoring period (01/04/2019 to 30/09/2020), the total electricity generation achieved was 121,723.70 MWh, which is more than the ex-ante estimate for 183 days of current monitoring period (i.e. 94,478.64 MWh). The variation is due to the reason that high generation was achieved during the peak months (April-July) of the monitoring period, which is reasonable.

Accordingly the emission reductions (on annual average) achieved during the monitoring period were 114,035  $tCO_2$ , which is 29% more than annual ex-ante estimates of 88,511  $tCO_2$  for the current monitoring period. The assumptions, emission factors and default values that were applied in the calculations are justified. The actual emission reduction achieved during the current monitoring period are 29% higher than the estimated amount of emission reductions at the time of validation, due to the inclusion of peak months (April to July) in the monitoring period

According to the applied methodology /5/, the conservativeness of the achieved emission reduction was checked and the detailed emission reduction calculation has been transparently provided in the ER sheet /2.2/. All the formulae and the calculation procedure were checked by

the verification team. In the opinion of verification team, the assumptions, emission factors and default values that were applied in the calculations have been justified

**Finding:** CAR 03 was raised and successfully closed. Refer to appendix 2 for further details.

**Opinion:** The verification team confirms that

- The complete data set for the identified and required parameters for the operational days in the current monitoring period was available, as indicated in section 4.1 above;
- The reported data has been cross checked with available records, as indicated in the section 4.4 above under each monitored data, wherever appropriate;
- The baseline, project and leakage emissions have been determined in accordance with the requirement of the applied methodologies, as contained in the final monitoring report/1.2/ and corresponding emission reductions spreadsheet /2.2/;
- The assumptions, emission factors and default values used are justified, as indicated in the section 4.4 above.

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

All relevant documents were checked to assess the correctness and quality of data submitted by the project participants, which are used to determine emission reductions.

All records needed for monitoring are archived in line with the requirements of the registered monitoring plan /3.1/. No significant lack of evidence and missing data were detected during remote audit interview and video inspection. Hence, the verification team confirms that the monitoring system ensures required quality of the monitoring system to ensure the quality of the monitored data. All internal data are subjected to QA/QC measures.

It was also verified through remote audit inspection and training records /13/ that the plant's team involved in the monitoring of project activity is well experienced. Hence, the verification team concludes that competent staff is employed by the project proponent to carry out the relevant tasks with sufficient accuracy. Furthermore, it was confirmed during remote audit discussion that internal training program for the monitoring staff are conducted on regular basis.

#### 4.6 Non-Permanence Risk Analysis

Not applicable to the project activity.

## 5 VERIFICATION CONCLUSION

KBS Certification Services Pvt. Ltd. has been contracted by, “Clean Sustainable Energy Pvt. Ltd.” to undertake the third periodic verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘100 MW Solar project in Bhadla in Rajasthan’ (VCS PROJECT ID 1842) for the monitoring period 01/04/2020 to 30/09/2020.

The verification is based on the validated and registered VCS PD/3.1/and the monitoring report/1.2/ for this project. Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakech accord, as well as those defined by the CDM Executive Board and the VCS Standard Version 04.

The management of the ‘Clean Sustainable Energy Pvt. Ltd.’ is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project Final Monitoring Report version 01.2 and dated 07/11/2020. The calculation and determination of GHG emission reductions from the project is the responsibility of the management of the ‘Emergent Ventures India Pvt. Ltd.’. The development and maintenance of records and reporting procedures are in accordance with the registered VCS-PD /3.1/.

It is our responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the period 01/04/2020 to 30/09/2020 based on the reported emission reductions in the Final Monitoring Report Version 01.2 dated 07/11/2020 for the same period.

As a result of the verification, the verification team confirms that:

- All operations of the project are implemented and installed as planned and described in the project description.
  - The monitoring system is in place and functional.
  - The installed equipment essential for generating emission reductions runs reliably.
  - The GHG emission reductions are calculated without material misstatements in a conservative and appropriate manner.
- Based on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these, KBS planned and performed our work to obtain the information and explanations that we considered necessary to provide sufficient evidence for us to give reasonable assurance that this reported amount of GHG emission reductions for the period is fairly stated.

Verification period: From 01/04/2020 to 30/09/2020


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

| Year          | Baseline emissions or removals (tCO <sub>2</sub> e) | 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) |
|---------------|---|--|--|--|
| 01-04-2020 to | 114,035   | 0  | 0                                      | 114,035  |

|            |         |   |   |         |
|------------|---------|---|---|---------|
| 30-09-2020 |         |   |   |         |
| Total      | 114,035 | 0 | 0 | 114,035 |

Location: Faridabad

Date: 19/11/2020



Authorized Signatory: Kaushal Goyal

Designation: Managing Director

KBS Certification Services Pvt. Ltd.

# APPENDIX 1: REFERENCES

|      |   |
|------|---|
| /1/  | /1.1/ Monitoring Report, Version 1.0, dated 15/10/2020 (Initial Version)<br>/1.2/ Monitoring Report, Version 1.2 dated 07/11/2020 (Final Version)   |
| /2/  | /2.1/ Emission Reduction calculation sheet(corresponding to initial Version of VCS MR)<br>/2.2/ Emissions Reduction calculation Sheet (corresponding to final Version of VCS MR)  |
| /3/  | /3.1/ Approved VCS(Joint)-PD+MR version 02dated 19/08/2020<br>/3.2/Joint Validation & Verification report version 01 dated 26/08/2019<br>/3.3/ Monitoring Report (for 2 <sup>nd</sup> MP) version 02 dated 25/06/2020<br>/3.4/ Verification report (for 2 <sup>nd</sup> MP) version 01 dated 14/07/2020   |
| /4/  | VCS Standard Version 04<br>VCS program guide Version 04<br>VCS Validation and Verification Manual version 3.2   |
| /5/  | ACM0002: Grid-connected electricity generation from renewable sources - Version 19<br>( <a href="https://cdm.unfccc.int/methodologies/DB/VJ19AX539D9MLOPXN2AY9UR1N4IYGD">https://cdm.unfccc.int/methodologies/DB/VJ19AX539D9MLOPXN2AY9UR1N4IYGD</a> )   |
| /6/  | /6.1/ Calibration certificates for Main, Check and Standby Feeder wise Energy meters i.e. Plot 4(F1, F2, F3), Plot 5(F1, F2, F3) (covering the entire monitoring period 01/04/2020 to 30/09/2020)<br>/6.2/ Calibration certificates for Main and check Dedicated Feeder & Metering arrangement at Substation i.e Line 1 and Line 2 (covering the entire monitoring period01/04/2020 to 30/09/2020)  |
| /7/  | Photographic evidences and technical specifications of solar module, inverter, transformers, energy meters  |
| /8/  | Monthly generation data/excel sheet for exported electricity for the entire monitoring period01/04/2020 to 30/09/2020   |
| /9/  | Tool to calculate the emission factor for an electricity system, Version 07.0   |
| /10/ | /10.1/ Office memorandum No. J-II013/41/2006-IA.II(I) issued by Ministry of Environment and Forest dated 07/07/2017<br>( <a href="http://environmentclearance.nic.in/writereaddata/public_display/circulars/2YME8DSI_OM%20Solar%20Parks%20dated%207th%20July%202017.pdf">http://environmentclearance.nic.in/writereaddata/public_display/circulars/2YME8DSI_OM%20Solar%20Parks%20dated%207th%20July%202017.pdf</a> )<br><br>/10.2/ Report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” MNRE dated September 2013. |
| /11/ | /11.1/ Invoices issued by PP for the entire monitoring period01/04/2020 to 30/09/2020.<br>/11.2/ Monthly JMR issued by RVPNLfor the entire monitoring period 01/04/2020 to  |

|      |  |
|------|--|
|      | 30/09/2020.  |
| /12/ | Commissioning certificate of the project activity (To verify ownership, start date, date of phased commissioning etc) <ul style="list-style-type: none"> <li>• 1st phase (50 MW) commissioned on 16/09/2018</li> <li>• 2nd phase (50 MW) commissioned on 06/10/2018</li> </ul> |
| /13/ | Training records   |
| /14/ | Organization structure/chart   |
| /15/ | Single line diagram  |
| /16/ | Power Purchase Agreement (PPA) signed by PP with SECI dated 26/09/2017   |

## APPENDIX 2: FINDINGS

|                     |    |     |     |
|---------------------|----|-----|-----|
| Summary of findings | CL | CAR | FAR |
|                     | 00 | 03  | 00  |

**Table 1. Remaining FAR from validation and/or previous verifications**

No remaining FAR from validation and/or previous verifications.

|  |    |                    |  |                         |
|--|----|--------------------|--|-------------------------|
| <b>FAR ID</b>  | xx | <b>Section no.</b> |  | <b>Date: DD/MM/YYYY</b> |
| <b>Description of FAR</b>                            |    |                    |  |                         |
|  |    |                    |  |                         |
| <b>Project participant response</b>                  |    |                    |  | <b>Date: DD/MM/YYYY</b> |
|  |    |                    |  |                         |
| <b>Documentation provided by project participant</b> |    |                    |  |                         |
|  |    |                    |  |                         |
| <b>DOE assessment</b>                                |    |                    |  | <b>Date: DD/MM/YYYY</b> |
|  |    |                    |  |                         |

**Table 2. CL from this verification**

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

**Table 3.CAR from this verification**

|  |    |                    |     |                         |
|--|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>  | 01 | <b>Section no.</b> | 4.1 | <b>Date:</b> 31/10/2020 |
| <b>Description of CAR</b>  |    |                    |     |                         |
| Under section 1.4 of the submitted MR, PP shall mention all the other entities involved in the project, as it was observed that the consulting party “Emergent Ventures India Pvt. Ltd.” was missing in the section. |    |                    |     |                         |
| <b>PP response</b>   |    |                    |     | <b>Date:</b> 04/11/2020 |
| The details of “Emergent Ventures India Pvt. Ltd.” Are added now.  |    |                    |     |                         |
| <b>Documentation provided by PP</b>  |    |                    |     |                         |
| MR Version 1.1   |    |                    |     |                         |
| <b>VVB assessment</b>  |    |                    |     | <b>Date:</b> 09/11/2020 |
| The verification team confirms that the details of other entity “Emergent Ventures India Pvt. Ltd.” has been appropriately mentioned in the section.<br><br>Hence, CAR 01 is closed                                  |    |                    |     |                         |

|  |    |                    |     |                         |
|--|----|--------------------|-----|-------------------------|
| <b>CAR ID</b>  | 02 | <b>Section no.</b> | 4.1 | <b>Date:</b> 31/10/2020 |
| <b>Description of CAR</b>  |    |                    |     |                         |
| Under section 3.1 of the submitted MR, the details of “The operation of the project activity(s) during this monitoring period, including any information on events that may impact the GHG emission reductions or removals and monitoring.” were found to be missing. PP shall add the details required as per the monitoring template instructions. |    |                    |     |                         |
| <b>PP response</b>   |    |                    |     | <b>Date:</b> 04/11/2020 |
| There are no unusual events that took place in the current monitoring period that will impact GHG emissions reductions. The project remained operational through the period. Same information is added to MR.  |    |                    |     |                         |
| <b>Documentation provided by PP</b>  |    |                    |     |                         |
| MR Version 1.1   |    |                    |     |                         |
| <b>VVB assessment</b>  |    |                    |     | <b>Date:</b> 09/11/2020 |
| PP has added relevant details in section 3.1, which have been checked and found acceptable by the verification team.<br><br>Hence, CAR 02 is closed.   |    |                    |     |                         |

|   |    |                    |          |                         |
|---|----|--------------------|----------|-------------------------|
| <b>CAR ID</b>   | 03 | <b>Section no.</b> | 4.1, 4.4 | <b>Date:</b> 31/10/2020 |
| <b>Description of CAR</b>   |    |                    |          |                         |
| PP shall revise the following in the MR, <ol style="list-style-type: none"> <li>1. Under section 4.1, 4.2 of the submitted MR, parameter nomenclature (subscript part) should be formatted appropriately.</li> <li>2. Under section 4.3 of the submitted MR, PP needs to format the section and revise the incomplete sentence.</li> <li>3. Consistency in font colour and font size is required to be maintained throughout the report.</li> <li>4. Blank pages after section 5.4 is to be removed.</li> </ol> |    |                    |          |                         |
| <b>PP response</b>  |    |                    |          | <b>Date:</b> 04/11/2020 |
| <ol style="list-style-type: none"> <li>1. Nomenclature is corrected</li> <li>2. Report is formatted and sentence has been completed</li> <li>3. Font color and size are made consistent</li> <li>4. Blank page is removed</li> </ol>  |    |                    |          |                         |
| <b>Documentation provided by PP</b>   |    |                    |          |                         |
| MR Version 1.1  |    |                    |          |                         |
| <b>VVB assessment</b>   |    |                    |          | <b>Date:</b> 09/11/2020 |
| Verification team confirms the following: <ol style="list-style-type: none"> <li>1. Section 4.1, 4.2 is now formatted and hence acceptable.</li> <li>2. Section 4.3 is now revised and hence acceptable.</li> <li>3. Font colour and font size is now consistent throughout the MR.</li> <li>4. Blank Page has been removed</li> </ol> <p>Therefore, CAR 03 is closed.</p>  |    |                    |          |                         |

#### Table 4.FAR from this verification

No FAR raised from this verification.

|  |  |                    |  |                         |
|--|--|--------------------|--|-------------------------|
| <b>FAR ID</b>  |  | <b>Section No.</b> |  | <b>Date:</b>            |
| <b>Description of FAR</b>                            |  |                    |  |                         |
|  |  |                    |  |                         |
| <b>Project participant response</b>                  |  |                    |  | <b>Date:</b> DD/MM/YYYY |
|  |  |                    |  |                         |
| <b>Documentation provided by project participant</b> |  |                    |  |                         |
|  |  |                    |  |                         |

|                       |                         |
|-----------------------|-------------------------|
| <b>DOE assessment</b> | <b>Date: DD/MM/YYYY</b> |
|                       |                         |

## APPENDIX 3: COMPETENCE OF TEAM MEMBERS

|   |  |                       |                                     |
|---|--|-----------------------|-------------------------------------|
| <b>Personnel Name:</b>                              |  | <b>Sanjay Kandari</b> |                                     |
| <b>Qualified to work as:</b>                        |  |                       |                                     |
| Team Leader   | <input checked="" type="checkbox"/>  | Technical Expert      | <input checked="" type="checkbox"/> |
| Validator/Verifier                                  | <input checked="" type="checkbox"/>  | Financial Expert      | <input checked="" type="checkbox"/> |
| Technical Reviewer                                  | <input checked="" type="checkbox"/>  | Local Expert (India)  | <input checked="" type="checkbox"/> |
| <b>Area(s) of Technical Expertise</b>               |  |                       |                                     |
| <b>Sectoral Scope</b>                               | <b>Technical Area</b>  |                       |                                     |
| Energy Industries (renewable/non-renewable sources) | TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar |                       |                                     |
| Energy industries (renewable/non-renewable sources) | TA 1.2: Energy generation from renewable energy sources  |                       |                                     |
| Energy demand                                       | TA 3.1. Energy Demand  |                       |                                     |
| Waste Handling and Disposal                         | TA 13.1 Waste Handling and Disposal<br>TA 13.2 Manure  |                       |                                     |
| Approved by (Manager C & T)                         | Akhilesh Joshi   |                       |                                     |
| Approval date:                                      | 11/12/2015   |                       |                                     |

|                              |                          |
|------------------------------|--------------------------|
| <b>Personnel Name:</b>       | <b>Ms. Shikha Sharma</b> |
| <b>Qualified to work as:</b> |                          |

|                                       |                                     |                  |                          |
|---------------------------------------|-------------------------------------|------------------|--------------------------|
| Team Leader (Trainee)                 | <input checked="" type="checkbox"/> | Technical Expert | <input type="checkbox"/> |
| Validator/Verifier                    | <input checked="" type="checkbox"/> | Financial Expert | <input type="checkbox"/> |
| Technical Reviewer                    | <input type="checkbox"/>            | Local Expert     | <input type="checkbox"/> |
| <b>Area(s) of Technical Expertise</b> |                                     |                  |                          |
| <b>Sectoral Scope</b>                 | <b>Technical Area</b>               |                  |                          |
| -                                     | -                                   |                  |                          |
| Approved by (Manager C & T)           | Sanjay Kandari                      |                  |                          |
| Approval date:                        | 03/11/2020                          |                  |                          |

|   |  |                      |                                     |
|---|--|----------------------|-------------------------------------|
| <b>Personnel Name:</b>                              | Tushar Eknath Chaudhari  |                      |                                     |
| <b>Qualified to work as:</b>                        |  |                      |                                     |
| Team Leader   | <input checked="" type="checkbox"/>  | Technical Expert     | <input checked="" type="checkbox"/> |
| Validator/Verifier                                  | <input checked="" type="checkbox"/>  | Financial Expert     | <input checked="" type="checkbox"/> |
| Technical Reviewer                                  | <input checked="" type="checkbox"/>  | Local Expert (India) | <input checked="" type="checkbox"/> |
| <b>Area(s) of Technical Expertise</b>               |  |                      |                                     |
| <b>Sectoral Scope</b>                               | <b>Technical Area</b>  |                      |                                     |
| Energy Industries (renewable/non-renewable sources) | TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar |                      |                                     |
| Energy industries (renewable/non-renewable sources) | TA 1.2: Energy generation from renewable energy sources  |                      |                                     |
| Energy demand                                       | TA 3.1. Energy Demand  |                      |                                     |
| Waste Handling and Disposal                         | TA 13.1 Waste Handling and Disposal  |                      |                                     |
| Approved by   | Manager Competency & Training  |                      |                                     |
| Approval date:                                      | 02/09/2020   |                      |                                     |