



# RENEWABLE SOLAR POWER PROJECT BY SHAPOORJI PALLONJI



Document Prepared By Earthood Services Private Limited

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## Summary:

The project activity by Solar Edge Power and Energy Private Limited through various SPVs involves the generation of electricity through solar photovoltaic plant with a combined capacity of 220 MW in the state of Maharashtra, Tamil Nadu and Karnataka, India. This is a 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.

During the Current Monitoring Period from 26-June-2019 to 31-December-2020 (First and last date included) the project activity has supplied 588,695.26 MWh of electricity, and thus contributing to the GHG reductions 551,445 tCO<sub>2e</sub>.

**Solar Edge Power and Energy Private Limited** contracted **ESPL** to conduct the verification of the project. The scope of verification includes confirming the implementation of the monitoring plan in the registered VCS PD (Ver. 02 dated 10-December-2019) and the application of methodology ACM0002: Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources, Version 19.0.

The verification consisted of three phases: a. Desk review of the project; b. Follow-up remote audit; c.

Resolution of outstanding issues and issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted following ESPL's internal quality procedures.

A risk-based approach has been followed to perform this verification activity and No uncertainties associated with the verification. A total of 01 CL and 05 CARs have been raised during the verification process of the project activity which were successfully closed.

ESPL confirms that the monitoring system is in place and the emission reductions are calculated without material misstatements.

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# 1 INTRODUCTION

## 1.1 Objective

“Solar Edge Power and Energy Private Limited” has contracted ESPL (Hereinafter referred as Earthood) to conduct the verification of the project activity “Renewable Solar Power Project by Shapoorji Pallonji” according to the requirements of the Verified Carbon Standard Version 4.2

The objective of this verification is to verify and certify emission reductions reported for the PA “Renewable Solar Power Project by Shapoorji Pallonji” for the period 26-June-2019 to 31-December-2020 (including both days).

## 1.2 Scope and Criteria

The scope of the verification is to establish/verify that:

- the appropriate VCS-MR form (and other templates) was used and correctly filled up; (as per <https://verra.org/wp-content/uploads/2019/09/VCS-V4-Summary-of-Effective-Dates.pdf> the use of updated version of all VCS Program templates and representations is mandatory from 19 March 2020)
- The project activity is in accordance with all relevant host country criteria (India);
- The project activity is in accordance with all relevant VCS rules and requirements;
- The project activity falls under Sectoral Scope: 01 - Energy industries (renewable / non-renewable sources); Project Type: I - Renewable Energy Projects.
- The project activity is in accordance with conditions of the latest version of applied methodology ACM0002: Large Consolidated methodology- Version 19.0/7/.
- The project is not a grouped project and also non- AFOLU project.

The verification of the project activity is based on the VCS-PD and estimated GHG emission reduction calculations.

## 1.3 Level of Assurance

☒ Reasonable level of assurance

☐ Limited level of assurance

ESPL's verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. ESPL planned and performed the verification by obtaining evidence and other information and explanations that ESPL considers necessary to give reasonable assurance that reported estimated GHG emission reductions are fairly stated. All documentary evidences were checked, and remote audit was conducted to arrive at a verification conclusion by the assessment team.

In our opinion, the estimated GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM 0002, version 19.0 and the VCS standard, Version 4.2.

## 1.4 Summary Description of the Project

The project activity by Solar Edge Power and Energy Private Limited through various SPVs involves the generation of electricity through solar photovoltaic plant with a combined capacity of 220 MW in the state of Maharashtra, Tamil Nadu and Karnataka, India. This is a greenfield project activity and supply the generated electricity to the National power grid i.e., Indian Grid. The current monitoring period from 26-June-2019 to 31-December-2020 (First and last date included) and involved the generation and supply of 588,695.26 MWh solar power in Maharashtra, Tamil Nadu and Karnataka. The power generated by the grid will be replacing an equivalent amount of electricity from the grid system of India which is majorly dependent on fossil-fuel based grid imports for its electricity requirements.

| Sl. No. | Name of SPVs                                                                                                                                    | Capacity (MW) | COD               | State       | Usage        |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------|--------------|
| 1       | Solar Edge Power and Energy Private Limited                                                                                                     | 50            | 26-April-2018     | Maharashtra | Sale to SECI |
|         |                                                                                                                                                 | 50            | 08-April-2018     |             |              |
|         |                                                                                                                                                 | 30            | 22-April-2018     |             |              |
| 2       | Terralight Kanji Solar Private Limited<br>(Previously known as Shapoorji Pallonji Infrastructure Capital Company Private Limited <sup>1</sup> ) | 50            | 26-September-2018 | Tamil Nadu  | Sale to Grid |
| 3       | Suryoday One Energy Private Limited                                                                                                             | 40            | 30-March-2018A    | Karnataka   | Sale to Grid |

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.

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<sup>1</sup> Certificate of Incorporation for name change have been submitted from Registrar of Companies, MINISTRY OF CORPORATE AFFAIRS, GOVERNMENT OF INDIA dated 09-February-2021.

Verification team confirmed the capacity by verifying commissioning certificates/<sup>10/</sup> and also verified through interview during remote audit that plants are operational in all the locations (Maharashtra, Tamil Nadu and Karnataka). 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 on skype during remote audit provided in Sec. 4.1 of this report.

These are the SPVs of Solar Edge Power and Energy Private Limited 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 1 of this report. The project is based on sectoral Scope 1: Energy Industries (renewable sources) with ACM0002: Large-scale Consolidated methodology: Grid-connected electricity generation from renewable sources, Version 19.0.

During the Current Monitoring Period from 26-June-2019 to 31-December-2020 (First and last date included) the project activity has supplied 588,695.26 MWh of electricity, and thus contributing to the GHG reductions 551,445 tCO<sub>2</sub>e.

## 2 VERIFICATION PROCESS

The registered VCS project is undergoing 2<sup>nd</sup> verification and the approach adopted to ensure the quality of emission reductions is described in the following sub-sections.

### 2.1 Method and Criteria

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using ESPL's internal procedures. The Project was verified against the latest requirements (Version 4.2) <sup>/14/</sup> and guidance set out in VCS Standards as applicable.

- The verification process consists of the following three phases;
- A document review of the VCS PD and VCS MR (described in Section 2.2)
- Remote audit and follow up interviews with project stakeholders (described in Section 2.3 and 2.4)
- The resolution of outstanding issues and issuance of the final report and opinion. (Described in Section 2.5)

DOE's Sampling Approach: No sampling approach was required for undertaking the current verification since all monitored data was verified by the assessment team.

### 2.2 Document Review

The verification is performed primarily as a document review of the documents submitted at various stages of assessments. The review is performed by assessment team using dedicated protocols. The assessment team cross checks the information provided in the documents (PDD, MR, validation report)

and information from sources other than those used, if available, and also conducts independent background investigations. Earthood conducted a desk review as under;

- a) A review of the data and information presented to verify their completeness.
- b) A review of the monitoring plan, the monitoring methodology including applicable tool(s) and, where applicable, the applied standardized baseline, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures.
- c) 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.

## 2.3 Interviews

A remote audit was conducted on 15-June-2021 through Skype video call which covers all the sites (includes all the locations) in the state of Maharashtra, Tamil Nadu & Karnataka in India. No sampling procedures were adopted either in document verification and all the documents were cross checked to ensure conservative estimation of emission reduction. Remote audit conducted due to pandemic situation and technical details and metering/monitoring arrangement verified through photos/certificates shared by PP. The names of the persons interviewed during remote audit through Skype/telephonic interview/9/ is given below;

| Name of SPVs                                                                                                                   | Location                 | Name of Persons/Designation | Topics discussed                                                                                                | Team Member         |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| Solar Edge Power and Energy Private Limited                                                                                    | Wadhav, Hartale & Manpur | Mr. S Millar                | Project Implementation, Monitoring practices, Calibration requirements, GHG calculations, MR and ER preparation | Dr. Atul Takarkhede |
|                                                                                                                                | Parli                    | Mr. S Millar                |                                                                                                                 |                     |
|                                                                                                                                | Parli                    | Mr. S Millar                |                                                                                                                 |                     |
| Terralight Kanji Solar Private Limited (Previously known as Shapoorji Pallonji Infrastructure Capital Company Private Limited) | Thenkarai                | Mr. S Millar                | Project Implementation, Monitoring practices, Calibration requirements, GHG calculations, MR and ER preparation |                     |
| Suryoday One Energy Private Limited                                                                                            | Gokak Falls              | Mr. M Venkatesh             | Operation and Maintenance of Facility, Monitoring practices, Data collection, data                              |                     |

| Name of SPVs                | Location               | Name of Persons/Designation | Topics discussed                        | Team Member |
|-----------------------------|------------------------|-----------------------------|-----------------------------------------|-------------|
|                             |                        |                             | storage, QA/QC                          |             |
| EKI Energy Services Limited | Indore, Madhya Pradesh | Ishani Sinha Consultant     | GHG calculations, MR and ER preparation |             |

## 2.4 Site Inspections

| Duration of on-site inspection: NA |                            |               |      |             |
|------------------------------------|----------------------------|---------------|------|-------------|
| No.                                | Activity performed on-site | Site location | Date | Team member |
| 1.                                 | NA                         | NA            | NA   | NA          |

The verification team could not perform on-site inspection due to the ongoing COVID-19 pandemic in the entire state of India. Ministry of Home Affairs (MHA), Government of India has order nationwide lockdown from 25-March-2020 to 14-April-2020/22/. Further extended to 03-May-2020/23/ and again extended up 17-May-2020/24/. MHA again extended lock down up to 31/05/2020/25/. All domestic & International travel, passenger movement by trains, interstate buses for public transport, movement by individuals were prohibited/25/. The project sites and substation were not accessible in these locations due to lockdown. Further access to project site and sub-station was restricted and video call was not possible from sub-station.

Moreover, the VCS program does not explicitly mandate site visits as part of the validation and verification process during such unprecedented circumstances, only that VVBs must achieve a reasonable level of assurance on all validations and verifications (per section 4.1.2 of the VCS Standard, Version 4.2

The DOE reached reasonable level of assurance through remote verification via Skype/Telephonic interview (refer section 2.3) with the representative PP. through review of documentation/evidences such as technical layout, metering arrangements/specification of solar power Plants, logbook/26/ monthly generation data/ photographs/20/ and name plates of solar power plants, calibration certificates of meters, validation and verification report/21/ of various issuance.

A remote audit was conducted by the assessment team (Dr. Atul Takarkhede) on 15-June-2021 to carry out the following;

- An assessment of the implementation and operation of the registered project activity as per the registered PD or any approved revised PD/1/ and MR/2/;
- A review of information flow for generating, aggregating and reporting the monitoring parameters;

- c. Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PD/1/;
- d. A cross-check between information provided in the monitoring report and data from other sources such as JMR sheets, invoice slips, PPA agreement etc.;
- e. A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD/1/, the applied methodology including applicable tool(s), and, where applicable, the applied standardized baseline;
- f. A review of calculations and assumptions made in determining the GHG data and emission reductions;
- g. An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

## 2.5 Resolution of Findings

The findings may be of the following types: CAR- Corrective Action Request, CL- Clarification Request and FAR- Forward Action Request.

The list of findings and their resolution are presented in Appendix 2 of this verification report. The section also includes the response, if provided, by the project participants and an assessment by the assessment team if it was closed or otherwise. It is to be noted that all the findings have been satisfactorily resolved by the assessment team.

A total of 05 CARs and 01 CL were raised in the current verification. All the findings that are raised and communicated to project participant during the verification are included under Appendix 2. The section also includes the response, if provided, by the project participants and an assessment by the verification team if it was closed out or otherwise.

### 2.5.1 Forward Action Requests

This is 2<sup>nd</sup> periodic verification of the project activity and no FAR is raised during current verification and no FAR from previous validation/verification as well.

## 2.6 Eligibility for Validation Activities

As project is already validated and this is 2nd verification of the project and ESPL already holds accreditation for validation & verification of VCS project under applicable scope. Hence, this section not applicable.

## 3 VALIDATION FINDINGS

As project is already validated and this is 2<sup>nd</sup> verification of the project. Hence, this section not applicable.

### 3.1 Participation under Other GHG Programs

PP has submitted an undertaking regarding no participation in any other GHG mechanism. VVB raised CAR 04 related to this which was closed successfully during verification. Hence, VVB confirms that PP is not participating in any other GHG mechanism during current monitoring period. 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

No methodology deviation is envisaged for present verification.

### 3.3 Project Description Deviations

PP has applied for below two deviations:

1. PP has applied a deviation for change in ownership of the SPVs located in Tamil Nadu of the project activity. The details of the new owner have been updated in Section 1.3 of this Monitoring Report. Assessment team verified same with share holding document thus found correct and same is not affecting the project design, scale and additionality of the project activity. Thus, same is accepted.
2. The earliest commissioning date of 40 MW installation of Suryoday One Energy Private Limited at Karnataka is 30- March-2018. However, as per the approved VCS PD, PP has taken 08-April-2018, which is the Commissioning date of installations at Maharashtra as the start date of the project activity. Thus, as earliest commissioning date is 30- March-2018, same is now considered as project start date. Hence, the crediting period for the project activity is revised now to 30-March-2018 to 29-March-2028. Thus, assessment team accepted the deviation as it does not have impact on project design, scale, meth or additionality of the project activity.

Both the project deviations are valid & appropriately justified.

### 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 remote audit, it was concluded that the project is implemented as per the instruction of the registered VCS PD/1/, and this is verified from the commissioning certificates/10/. 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/9/.

The total installed capacity of the project is 220 MW; which involves 50 MW, 50 MW and 30 MW capacity in Maharashtra by Solar Edge Power and Energy Private Limited, 50 MW in Tamil Nadu by Terralight Kanji Solar Private Limited and 40 MW in Karnataka by Suryoday One Energy Private Limited/10/. The technical parameters/specification have been verified by the assessment team through interview with site personal during the remote audit/09/with the nameplates as well as the same is also verified with the details as provided by the manufacturer/18/. The details of interconnection with grid of solar plants and commissioning details are given below;

| Sl. No. | Name of SPVs                                                                                                                      | Capacity (MW) | COD               | Connection with Grid | State       |
|---------|-----------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|----------------------|-------------|
| 1       | Solar Edge Power and Energy Private Limited                                                                                       | 50            | 26-April-2018     | Indian Grid          | Maharashtra |
|         |                                                                                                                                   | 50            | 08-April-2018     |                      |             |
|         |                                                                                                                                   | 30            | 22-April-2018     |                      |             |
| 2       | Terralight Kanji Solar Private Limited<br>(Previously known as Shapoorji Pallonji Infrastructure Capital Company Private Limited) | 50            | 26-September-2018 | Indian Grid          | Tamil Nadu  |
| 3       | Suryoday One Energy Private Limited                                                                                               | 40            | 30-March-2018     | Indian Grid          | Karnataka   |

The assessment team interviewed remotely with the plant site personals in order to verify the status of the project implementation of the monitoring plan. It has also been verified as per the guidelines in ACM0002: Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources, Version 19.0 that the calculations for the GHG emission reductions are done in accordance with the aforesaid methodology/7/.

The assessment team also confirmed that the monitoring system for emission reduction calculation was in place and in accordance with the registered VCS PD/1/. However, PP has applied a deviation for change in ownership of the SPVs located in Maharashtra and Tamil Nadu of the project activity. The details of the new owner have been updated in Section 1.3 of this Monitoring Report.

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 in MW | Location                                               | Latitude (N)   | Longitude (E)  |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------|----------------|----------------|
| Solar Edge Power and Energy Private Limited                                                                                       | 50             | Wadhav, Hartale & Manpur District Jalgaon, Maharashtra | 21° 01' 36.01" | 75° 59' 6.82"  |
|                                                                                                                                   | 50             | Parli, District Beed, Maharashtra                      | 18° 55' 21.06" | 76° 21' 29.28" |
|                                                                                                                                   | 30             | Parli, District Beed, Maharashtra                      | 18° 55' 21.06" | 76° 21' 29.28" |
| Terralight Kanji Solar Private Limited<br>(Previously known as Shapoorji Pallonji Infrastructure Capital Company Private Limited) | 50             | Thenkarai, District Vembakottai, Tamil Nadu            | 9° 33' 14.52"  | 77° 53' 03.25" |
| Suryoday One Energy Private Limited                                                                                               | 40             | Gokak Falls, Belgavi District, Karnataka               | 16° 10' 40.92" | 74° 47' 22.56" |

Capacity of the projects and date of commissioning verified with commissioning certificates/10/ and technical specifications provided by technology supplier/18/.

Geo coordinates checked on Google earth/17/ and also checked through onsite photographs share by PP and verification team conclude geo coordinates of project locations are consistent with registered PD/1/.

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

The project activity aims to harness solar energy through installation of Solar PV project with total installed capacity of 220 MW.

Sl. Technical details of the equipment Description

No.

1 The technical specification of 40 MW plant interconnection with grid by Suryoday One Energy Private Limited have been verified through the technical specification provided by the supplier/18/ and commissioning certificates/4/. The same is provided in table below:

|  |  |  |
|--|--|--|
|  |  |  |
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|  |  |  |

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |

The technical specification of 50 MW plant interconnection with grid by Solar Edge Power and Energy Private Limited have been verified through the technical specification provided by the supplier /18/ and commissioning certificates/4/. The same is provided in table below:

|         |                                      |                                        |
|---------|--------------------------------------|----------------------------------------|
| 3       | Number of Inverters & Capacity       | 16 Inverters<br>2750 KW                |
| Sl. No. | Technical details of the equipment   | Description                            |
| 1       | Technology Used                      | Solar PV technology (Poly-Crystalline) |
| 2       | Number of modules and their capacity | JA Solar Model capacity- 325 Wp        |
| 3       | Number of Inverters & Capacity       | 25 Inverters                           |

The technical specification of 250 MW plant interconnection with grid by Terralight Kanji Solar Private Limited (Previously known as Shapoorji Pallonji Infrastructure Capital Company Private Limited) have been verified through the technical specification provided by the supplier /18/ and commissioning certificates/4/. The same is provided in table below:

|         |                                      |                                                       |
|---------|--------------------------------------|-------------------------------------------------------|
| Sl. No. | Technical details of the equipment   | Description                                           |
| 1       | Technology Used                      | Solar PV technology (Poly-Crystalline)                |
| 2       | Number of modules and their capacity | No. of Modules- 164880 Model capacity- 325 Wp, 330 Wp |
| 3       | Number of Inverters & Capacity       | 20 Inverters<br>2750 KW                               |

The technical specification of 30 MW plant interconnection with grid by Solar Edge Power and Energy Private Limited have been verified through the technical specification provided by the supplier /18/ and commissioning certificates/4/. The same is provided in table below:

|         |                                      |                                                           |
|---------|--------------------------------------|-----------------------------------------------------------|
| Sl. No. | Technical details of the equipment   | Description                                               |
| 1       | Technology Used                      | Solar PV technology (Poly-Crystalline)                    |
| 2       | Number of modules and their capacity | Model capacity- 117.5 Wp (JA Solar), 325 Wp (First Solar) |
| 3       | Number of Inverters & Capacity       | 15 Inverters<br>2000 KW                                   |
|         |                                      |                                                           |
|         |                                      |                                                           |

The technical specification of 50 MW plant interconnection with grid by Solar Edge Power and Energy Private Limited have been verified through the technical specification provided by the supplier /18/ and commissioning certificates/4/. The same is provided in table below:

|         |                                         |                                 |                    |
|---------|-----------------------------------------|---------------------------------|--------------------|
| Sl. No. | Technical details of the equipment      | Description                     |                    |
| 1       | Technology Used                         | Solar PV technology             | (Poly-Crystalline) |
| 2       | Number of modules and their capacity    | JA Solar Model capacity- 325 Wp |                    |
| 3       | Assessment team concludes the following |                                 |                    |

- The implementation status of project activity was found to be in compliance with registered PD/1/.
- DOE has conducted the remote audit to confirm the implementation status of the project/9/.
- The commissioning date of the project activity was found to be accurately and consistently recorded/10/.
- The actual operation of project activity was found to be in compliance with the flow diagram provided in registered PD/1/.
- The emission reductions achieved during the current monitoring period are 551,445 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:

- Environmental: Since the project activity leads to cleaner production of energy, it is leading to displacement of fossil fuel-based energy.
- Social: Setting up of the project activity has created new job openings hence is supporting employment of the local people around.
- 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/1/. CL 01, CAR 01, CAR 02, and CAR 03 were raised on the editorial issue of description and same were resolved by revision in the MR.

The total emission reductions achieved in this monitoring period i.e., from 26-June-2019 to 31-December-2020 (including both days) are 551,445 tCO<sub>2</sub>e.

## 4.2 Safeguards

### 4.2.1 No Net Harm

As PP does not see and identify any potential negative environmental and socio-economic impacts, hence this section is not required.

### 4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration hence not applicable in the current monitoring period. However, PP has kept a dedicated visitor cum grievance register at the project site which is accessible to stakeholders to provide their feedback on the project as an ongoing communication with local stakeholders/28/. This is in compliance with the requirement of para 3.16.4 of VCS standard, Version 4.2. Assessment team has checked the grievances register and confirms that there are no any grievances received during the current monitoring period/28/.

## 4.3 AFOLU-Specific Safeguards

This is non AFOLU projects, hence this section not applicable.

## 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 MR. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the MR.                                                                                                                                                                                                                                                                                                                             |
| Findings              | CAR 04 was raised during the verification process and closed successfully. Refer Appendix 2 of this report for the detail closure of the CAR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Conclusion            | <p><b>Ex-ante Parameter:</b></p> <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/1/.</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/1/.</p> <p><math>EF_{grid,CM,y}</math> = 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/1/.</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 fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)</p> <p><math>EG_{facility,y}</math> = Quantity of net electricity generation supplied by the project (solar) plant/unit to the grid in year y (MWh/yr)</p> <p><math>EF_{grid,CM,y}</math> = 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)</p> <p><b>Monitored Parameter:</b></p> <p><b>For Karnataka Site:</b></p> <p><math>EG_{PJ,y}</math> = 101,740.03 MWh</p> <p><b>For Maharashtra Site:</b></p> <p><math>EG_{PJ,y}</math> = 366,586.23 MWh</p> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>For Tamil Nadu Site:</b></p> <p><math>EG_{PJ,y} = 120,369.00 \text{ MWh}</math></p> <p><b>Total Net generation for the project activity : 588,695.26 MWh</b></p> <p>The verification team has checked the entire monthly JMR reports/State Energy Accounting/Regional Energy Account/06/ for net electricity generated &amp; supplied to the grid and crosschecked same with the invoices/05/ 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 Tamil Nadu states. Apportioning found appropriate and conservative. Moreover, during remote audit, Assessment team found that start date of current MP of project activity is 26 June 2019 but sale of power from this installation at Gokak (40 MW), Karnataka is from 01 July 2019, thus 01/07/2019 for the respective site is considered start date for calculating ER, hence accepted. 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 in appendix 05 below.</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><math>PE_y</math> = As per ACM0002 - Version 19.0, all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected. As the project activity involved wind power project emissions (<math>PE_y</math>) are taken as zero.</p> <p>Leakage: As per ACM0002 - Version 19.0, Leakage emissions are not considered for the project activity.</p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Means of verification | <p>The verification team checked the break down log for the monitoring period. During the remote verification audit and the feeder wise location of the solar plants is also checked.</p> <p>The metering arrangement is tri-vector bi-directional energy meters (main and check) installed at the switchyard and respective State Electricity Board (SEB) substations as mentioned in table below. The site wise location of meter and name of substations are given below. The same is verified with the onsite photographs and commissioning certificates</p> <p>The meters record parameters including electricity exported &amp; imported. Moreover, the meters are located at the HT side of the transformer and are of accuracy class of 0.2s for project activity applied for verification.</p> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>These electricity meters are being used by state electricity board for JMR (Joint Meter Reading)/credit note electricity generation statements. The Net electricity supplied to the grid is then calculated from export and import values. The net electricity exported to the grid is also cross checked from the invoices raised to respective state electricity board which is in line with Methodology requirement for large scale project activity. The main meter reading is taken jointly on a fixed day of every month for the preceding month at the delivery point and signed by the representatives of state utility and O&amp;M personnel. In the event of failure of main meter, the check meter is used in monitoring the electricity data. The agency is experienced in the monitoring system and is managing O&amp;M of numerous other solar farm projects. Verification team confirms the metering process by interviewing the O&amp;M personnel and PP representatives during remote audit and found the monitoring process is in line with approved PD.</p> <p>Calibration of all the meters is done by state electricity board officials as per the industry standards. The calibration is done once in a 5 year/19/ as per calibration frequency in registered VCD PD/1/. The details of Calibration of the meters as confirmed during remote verification audit and calibration certificates are mentioned in Appendix 5 of this report. The assessment team checked the same and found correct.</p> <p>The energy meter recording the export and import from the grid at substation is under the control and supervision of state electricity board officials. Similarly, O&amp;M contractor is responsible for monitoring of the generation data at CMS.</p> <p>PP representatives confirmed that the CMS data as well as JMR sheets and invoices will be kept for 2 years following the end of the crediting period. During remote audit and discussion with PP, assessment team confirm that the data will be kept for 2 years following the end of the crediting period.</p> <p>The responsibilities and authorities of project management, data handling and recording, measurement methods and QA/QC procedure have been systematically established and formalized and the same was verified during the remote audit by interviewing O&amp;M personnel and checking of records/ log books maintained at site.</p> |
| Findings   | CAR 05 raised during the verification process which was closed successfully. Refer Appendix 2 of this report for the detail closure of the CAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Conclusion | <p>The assessment team confirms that the value of net electricity exported to the grid as used in emission reduction calculation is correct.</p> <p>The verification team therefore is of the opinion that the project participant through the O&amp;M agency is capable of implementing the monitoring plan in the context of the project activity.</p> <p>Interview with O&amp;M personnel during remote verification audit also confirms that the operational and organizational chart as mentioned in MR is as per the site practice and thus assessment team confirms that the details are correct.</p> <p>The break down log is checked and found that the solar Panels undergone scheduled maintenance as per the guideline provided by the manufacturer which is acceptable to the assessment team. No unforeseen incident observed during the monitoring period which could alter the applicability of the methodology or change in project specification as mentioned in the registered PDD. The project undergone Continuous operation from the</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>inception/commissioning and the same is confirmed from the JMR reports and invoices raised for the said period of verification.</p> <p>Comparison of actual and estimate emission reductions achieved:</p> <p>Assessment team checked the calculation of estimated VER vs. Actual VER. As per the registered VCS PD the amount of VERs annually is 432,770 tCO<sub>2e</sub>. The days involved in present monitoring period are 555. Therefore, on pro-rata basis, the estimated VERs for the monitoring period is 658,047 tCO<sub>2e</sub>. Actual VERs obtained for the monitoring period is 551,445 tCO<sub>2e</sub> and thus the actual VER is 16.20% lower 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. Hence verification team confirms that decrease in VER by 16.20% in this monitoring period is acceptable.</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

Earthood Services Private Limited (Earthood), contracted by Solar Edge Power and Energy Private Limited, has performed the independent verification of the emission reductions for the VCS project activity reference number 1976 “Renewable Solar Power Project by Shapoorji Pallonji” in India for the monitoring period 26-June-2019 to 31-December-2020 reported in the Monitoring Report Version 04 dated 18-April-2022.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity.

Earthood commenced the verification on the basis of the baseline and monitoring methodology “ACM0002 - Version 19.0», the monitoring plan contained in the PD & MR, version 02 and VCS standard Version 4.2, Monitoring Report Version 04 dated 18-April-2022 as per the process described under Section 2 of this report.

Earthood’s verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Earthood planned and performed the verification by obtaining evidence and other information and explanations that

Earthood considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 26-June-2019 to 31-December-2020 are fairly stated in the Monitoring Report Version 04 dated 18-April-2022. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology “ACM0002 - Version 19.0” and the VCS standard, Version 4.2.

Verification period: 26-June-2019 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) | 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) |
|-------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------|--------------------------------------------------------------|
| 26-June-2019 to 31-December-2019    | 200,911                                             | 0                                                  | 0                                      | 200,911                                                      |
| 01-January-2020 to 31-December-2020 | 350,534                                             | 0                                                  | 0                                      | 350,534                                                      |
| Total                               | 551,445                                             | 0                                                  | 0                                      | 551,445 <sup>2</sup>                                         |

Approved by



Dr. Kaviraj Singh

Managing Director

EARTHOOD SERVICES PRIVATE LIMITED

Date: 20-April-2022

Place: Gurgaon, Haryana

<sup>2</sup> Rounddown value

# APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

| S.No | Title of Document                                                                                                                                                                                                                                                                                                                 | Version      | Date                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------|
| 1.   | Registered VCS PD & MR                                                                                                                                                                                                                                                                                                            | version 02   | 10-December-2019                                                               |
| 2.   | Final VCS Monitoring Report                                                                                                                                                                                                                                                                                                       | 04           | 18-April-2022                                                                  |
| 3.   | ER spreadsheet (corresponding to the final monitoring report)                                                                                                                                                                                                                                                                     | 03           | 18-April-2022                                                                  |
| 4.   | Certificates of commissioning for Calibration for all the meters belongs to project activity                                                                                                                                                                                                                                      | -            | -                                                                              |
| 5.   | Invoice issued by PP for the duration of monitoring period (26-June-2019 to 31-December-2020)                                                                                                                                                                                                                                     | -            | -                                                                              |
| 6.   | Joint Meter Readings for the duration of monitoring period (26-June-2019 to 31-December-2020)                                                                                                                                                                                                                                     | -            | -                                                                              |
| 7.   | "Consolidated baseline methodology for grid-connected electricity generation from renewable sources", ACM0002,                                                                                                                                                                                                                    | Version 19.0 | -                                                                              |
| 8.   | CO <sub>2</sub> Baseline Database for the Indian Power Sector published by the Central Electricity Authority (CEA), Ministry of Power, Govt.                                                                                                                                                                                      | version 14   | December, 2018                                                                 |
| 9.   | Remote Audit through Skype video call/Telephonic discussions                                                                                                                                                                                                                                                                      | -            | 25-June-2021                                                                   |
| 10.  | Commissioning certificate for all the Solar plants of the project activity<br>M/s Solar Edge Power and Energy Pvt Ltd:-<br>1) 50 MW (PGN/GSPP-392/2017-18/1505)<br>2) 30 MW<br>(SECI/SD/NSM/P2B4T3/SEPEPL/3V-COD/24219)<br>3) 50 MW<br>(SECI/SD/NSM/P2B4T3/SEPEPL/1V-COD/24220)<br>M/s Suryoday One Energy Pvt Ltd. :- 40 MW (18- | -            | 07-April-2018<br><br>01-August-2018<br><br>01-August-2018<br><br>26-April-2018 |

| S.No | Title of Document                                                                                                                                                                                                         | Version     | Date                                                      |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------|
|      | 19/C45-05)<br><br>M/s Terralight Kanji Solar Private Limited<br>(Previously known as Shapoorji Pallonji<br>Infrastructure Capital Company Private Limited) :-<br>50 MW<br>(SE/VREDC/VDR/AEE/Gi/AE.1/F.Solar/D.No.<br>1220 |             | 24/10/2018                                                |
| 11.  | Power Purchase Agreements :<br>M/s Terralight Kanji Solar Private Limited (50 MW)<br><br>M/s Suryoday One Energy Pvt Ltd (40 MW)<br><br>M/s Solar Edge Power and Energy Pvt Ltd (50 MW,<br>50MW & 30 MW)                  | -           | 27-September-2017<br>09-July-2018<br><br>30-December-2016 |
| 12.  | VCS webpage for the project, VCS ID 1976;<br><a href="https://registry.terra.org/app/projectDetail/VCS/1976">https://registry.terra.org/app/projectDetail/VCS/1976</a>                                                    | -           | Last accessed on 28-<br>December-2021                     |
| 13.  | O&M contract for all project sites                                                                                                                                                                                        | -           | -                                                         |
| 14.  | VCS Standard                                                                                                                                                                                                              | Version 4.2 | Last accessed on 28-<br>January-2022                      |
| 15.  | VCS Program Guide                                                                                                                                                                                                         | Version 4.1 | Last accessed on 28-<br>January-2022                      |
| 16.  | Letter of declaration dated from PP regarding not<br>having created or sought any other form of<br>environmental credit for the same period and<br>double counting                                                        | -           | 20-August-2021                                            |
| 17.  | Google Earth desktop/Mobile application                                                                                                                                                                                   | -           | Last accessed on 28-<br>December-2021                     |
| 18.  | Technical specifications by technology supplier                                                                                                                                                                           |             |                                                           |
| 19.  | Meter calibration guidelines:<br><a href="http://cea.nic.in/reports/regulation/CEA_metering_regulation_amendment_2019.pdf">http://cea.nic.in/reports/regulation/CEA_metering_regulation_amendment_2019.pdf</a>            | -           | -                                                         |
| 20.  | Photograph of site/Name plates                                                                                                                                                                                            |             |                                                           |

| S.No | Title of Document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Version    | Date             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|
| 21.  | Joint Validation and Verification report of the first monitoring period.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Version 01 | 11-December-2019 |
| 22.  | Ministry of Home Affairs Order<br><a href="https://www.mha.gov.in/sites/default/files/MHAOrder%20copy.pdf">https://www.mha.gov.in/sites/default/files/MHAOrder%20copy.pdf</a>                                                                                                                                                                                                                                                                                                                                            |            | 24-March-2020    |
| 23.  | Ministry of Home Affairs Order ( D.O No.40-3/2020-DM-I(A)<br><a href="https://www.mha.gov.in/sites/default/files/MHA%20D0%20letter%20dt.14.4.2020%20to%20Chief%20Secretaries%20and%20Administrators%20for%20strict%20implementation%20of%20Lockdown%20Order%20during%20extended%20period.pdf">https://www.mha.gov.in/sites/default/files/MHA%20D0%20letter%20dt.14.4.2020%20to%20Chief%20Secretaries%20and%20Administrators%20for%20strict%20implementation%20of%20Lockdown%20Order%20during%20extended%20period.pdf</a> |            | 14-April-2020    |
| 24.  | Ministry of Home Affairs Order (Order No.40-3/2020-DM-I(A)<br><a href="https://www.mha.gov.in/sites/default/files/MHA%20Order%20Dt.%201.5.2020%20to%20extend%20Lockdown%20period%20for%202%20weeks%20w.e.f.%204.5.2020%20with%20new%20guidelines.pdf">https://www.mha.gov.in/sites/default/files/MHA%20Order%20Dt.%201.5.2020%20to%20extend%20Lockdown%20period%20for%202%20weeks%20w.e.f.%204.5.2020%20with%20new%20guidelines.pdf</a>                                                                                  |            | 01-May-2020      |
| 25.  | <a href="https://www.mha.gov.in/sites/default/files/MHAOrderextension_1752020_0.pdf">https://www.mha.gov.in/sites/default/files/MHAOrderextension_1752020_0.pdf</a>                                                                                                                                                                                                                                                                                                                                                      |            | 17-May-2020      |
| 26.  | Break down log sheet of Plants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -          | -                |
| 27.  | Skill development training records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -          | -                |
| 28.  | Copies of the grievance registers maintained at sites                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -          | -                |
| 29.  | New Certificate of Incorporation for name change from ROC, Mumbai dated 09-February-2021                                                                                                                                                                                                                                                                                                                                                                                                                                 | -          | -                |

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

Table 1. Remaining FAR from previous verification

| FAR ID                                                      | XX | Section no. | E.2 | Date : DD/MM/YYYY        |
|-------------------------------------------------------------|----|-------------|-----|--------------------------|
| <b>Description of FAR</b>                                   |    |             |     |                          |
| There is no FAR from the validation 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

| CL ID                                                                                                                                                                                                                                                                                                                  | 01 | Section no. | 4.1 | Date : 11-August-2021         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-----|-------------------------------|
| <b>Description of CL</b>                                                                                                                                                                                                                                                                                               |    |             |     |                               |
| During remote site audit, Assessment team has observed that there is change in SPV ownership of project activity sites. Hence, clarify the change and provide sufficient supporting documents.                                                                                                                         |    |             |     |                               |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                    |    |             |     | <b>Date : 02-October-2021</b> |
| <i>The supporting documents with regard to change in ownership of SPV ownership of two project activity sites are now submitted for further assessment.</i>                                                                                                                                                            |    |             |     |                               |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                   |    |             |     |                               |
| <i>Share Holding Pattern Documents</i>                                                                                                                                                                                                                                                                                 |    |             |     |                               |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                  |    |             |     | <b>Date: 28-December-2021</b> |
| Assessment team found share holder document is inline with the revised MR as one of the SPV ownerships has been changed in 2021 i.e. after end date of this monitoring period. There is only name change and thus the same is not affecting project design or additionality. Hence, accepted and <b>CL is closed</b> . |    |             |     |                               |

Table 3. CAR from this verification

| CAR ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 01 | Section no. | 4.1 | Date : 11-August-2021         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-----|-------------------------------|
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |             |     |                               |
| Following inconsistencies observed during review of monitoring report:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |             |     |                               |
| <ol style="list-style-type: none"> <li>Monitoring period in MR is not consistent with the previous verification period. Thus, corrective action sought.</li> <li>VCS MR template has been tempered. Section number is not inline with the VCS MR template guidelines. Corrective action sought.</li> <li>Section 1.1 of the MR is not inline with guidelines to complete MR, VCS Version 04.</li> <li>Geo-coordinates for Tamil Nadu and Karnataka project sites are not in line with the registered joint PD and MR. corrective action sought.</li> </ol> |    |             |     |                               |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |             |     | <b>Date : 02-October-2021</b> |
| <ol style="list-style-type: none"> <li>The monitoring period is now corrected and is consistent with the previous verification.</li> <li>The section numbers have been corrected as per the standard VCS MR template version 04.</li> <li>As suggested, the excess information has been removed such that it may not exceed a page.</li> <li>The geo-coordinates of Karnataka and Tamil Nadu sites are now made consistent with the registered VCS PD.</li> </ol>                                                                                          |    |             |     |                               |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |             |     |                               |
| VCS MR version 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |             |     |                               |

|                                                                                                                                       |                               |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>DOE assessment</b>                                                                                                                 | <b>Date: 28-December-2021</b> |
| PP has rectified all above-mentioned correction request and found correct and appropriate. Thus, accepted hence <b>CAR is closed.</b> |                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                    |     |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 02 | <b>Section no.</b> | 4.1 | <b>Date : 11-August-2021</b>  |
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                    |     |                               |
| PP is requested to submit all relevant supporting documents like commissioning certificates, Technical specifications, O&M agreements, break down details, PPA, training records, etc. of all SPV involved in the project activity for review by assessment team.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                    |     |                               |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                    |     | <b>Date : 02-October-2021</b> |
| The necessary supporting documents like Commissioning certificates, Technical specifications, O&M agreements, PPA, training records, etc. of all SPV involved in the project activity are now submitted to the VVB for further assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                    |     |                               |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                    |     |                               |
| Commissioning certificates, O&M Documents, breakdown details, PPA and training records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                    |     |                               |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                    |     | <b>Date: 28-December-2021</b> |
| <p>1. Commissioning dates of all solar power plants are now included in Section 1.1 of revised MR. PP has also provided the commissioning certificates of all plants. Assessment team has checked the commissioning certificates and confirms that commissioning dates are correct.</p> <p>2. Technical specifications of all solar plants have been included now in Section 3.1 of revised MR.</p> <p>3. PP has provided the copies of O &amp; M Agreement for all solar Power Plants including Solar plants installed and commissioned.</p> <p>4. Technical and soft skill development training records for the whole site have been now provided by the PP and found inline with the interviews with the PP.</p> <p>5. Break down details of plants are included in Appendix-2 of the revised MR.</p> <p>CAR thus closed for all points.</p> |    |                    |     |                               |

|                                                                                                                                                                                                                                 |    |                    |     |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                   | 03 | <b>Section no.</b> | 4.1 | <b>Date : 11-August-2021</b>  |
| <b>Description of CAR</b>                                                                                                                                                                                                       |    |                    |     |                               |
| PP is requested to submit declaration in effect of avoiding double counting with regard to participation under other GHG Programs/Other forms credits, rejection under other GHG program etc.                                   |    |                    |     |                               |
| <b>Project participant response</b>                                                                                                                                                                                             |    |                    |     | <b>Date : 02-October-2021</b> |
| The VCS declaration in effect of avoiding double counting with regard to participation under other GHG Programs/Other forms credits, rejection under other GHG program etc. is now submitted to the VVB for further assessment. |    |                    |     |                               |
| <b>Documentation provided by project participant</b>                                                                                                                                                                            |    |                    |     |                               |
| Declaration                                                                                                                                                                                                                     |    |                    |     |                               |
| <b>DOE assessment</b>                                                                                                                                                                                                           |    |                    |     | <b>Date: 28-December-2021</b> |
| PP has submitted declaration in effect of avoiding double counting with regard to participation under other GHG Programs/Other forms credits, rejection under other GHG program. CAR closed.                                    |    |                    |     |                               |

|                                                                                                                                                                                                                    |    |                    |     |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|-----|-------------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                      | 04 | <b>Section no.</b> | 4.4 | <b>Date : 11-August-2021</b>  |
| <b>Description of CAR</b>                                                                                                                                                                                          |    |                    |     |                               |
| PP is requested to submit all supporting documents for calculation of net electricity generation supplied by the project activity along the copies of invoices for cross checking.                                 |    |                    |     |                               |
| <b>Project participant response</b>                                                                                                                                                                                |    |                    |     | <b>Date : 02-October-2021</b> |
| The supporting documents for calculation of net electricity generation supplied by the project activity along the copies of invoices for cross checking are now submitted to the VVB for further assessment.       |    |                    |     |                               |
| <b>Documentation provided by project participant</b>                                                                                                                                                               |    |                    |     |                               |
| JMRs and Invoices                                                                                                                                                                                                  |    |                    |     |                               |
| <b>DOE assessment</b>                                                                                                                                                                                              |    |                    |     | <b>Date: 28-December-2021</b> |
| PP has submitted the copies of JMRs, Invoices and Calibration reports. Verification team has reviewed the supporting evidences and found consistent with ER sheet and revised MR. thus accepted and CAR is closed. |    |                    |     |                               |

|                                                                                                                                                                                                                                                                                                                                                                  |   |                    |     |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------|-----|-------------------------------|
| <b>CAR ID</b>                                                                                                                                                                                                                                                                                                                                                    | 5 | <b>Section no.</b> | 4.5 | <b>Date :</b> 11-August-2021  |
| <b>Description of CAR</b>                                                                                                                                                                                                                                                                                                                                        |   |                    |     |                               |
| PP requested to submit copies of the calibration certificates/meter replacement records to justify calibration frequency compliance throughout monitoring period.                                                                                                                                                                                                |   |                    |     |                               |
| <b>Project participant response</b>                                                                                                                                                                                                                                                                                                                              |   |                    |     | <b>Date :</b> 02-October-2021 |
| The Meter Calibration Certificates are now submitted to the VVB for further assessment. There has not been any meter change ever since their installation.                                                                                                                                                                                                       |   |                    |     |                               |
| <b>Documentation provided by project participant</b>                                                                                                                                                                                                                                                                                                             |   |                    |     |                               |
| Meter Calibration Certificates                                                                                                                                                                                                                                                                                                                                   |   |                    |     |                               |
| <b>DOE assessment</b>                                                                                                                                                                                                                                                                                                                                            |   |                    |     | <b>Date:</b> 28-December-2021 |
| PP has submitted copies of calibration certificate relevant to the current monitoring period. Same found consistent with revised MR & confirmed during interviews with PP. However, during review, Assessment team observed No delay in calibration throughout the monitoring period. Thus Found correct and appropriate thus accepted and <b>CAR is closed.</b> |   |                    |     |                               |

**Table 4. FAR from this verification**

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

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

| Competence Statement      |                                |
|---------------------------|--------------------------------|
| <b>Name</b>               | Atul Takarkhede                |
| <b>Education</b>          | Ph.D. Environmental Science    |
| <b>Experience</b>         | 12 years                       |
| <b>Field</b>              | Climate Change and environment |
| Approved Roles            |                                |
| <b>Team Leader</b>        | YES                            |
| <b>Validator</b>          | NO                             |
| <b>Verifier</b>           | NO                             |
| <b>Methodology Expert</b> | NO                             |
| <b>Local expert</b>       | NO                             |
| <b>Financial Expert</b>   | NO                             |
| <b>Technical Reviewer</b> | NO                             |

|             |               |      |            |
|-------------|---------------|------|------------|
| TA Expert   | YES (1.2)     |      |            |
| Reviewed by | Shreya Garg   | Date | 24/04/2019 |
| Approved by | Anshika Gupta | Date | 25/04/2019 |

|                    |                                                                                                        |      |            |
|--------------------|--------------------------------------------------------------------------------------------------------|------|------------|
|                    |                                                                                                        |      |            |
| Name               | Shreya Garg                                                                                            |      |            |
| Country            | India                                                                                                  |      |            |
| Education          | M.Sc. (Climate Science & Policy), TERI University                                                      |      |            |
| Experience         | 7 Years +                                                                                              |      |            |
| Field              | Climate Change                                                                                         |      |            |
| Approved Roles     |                                                                                                        |      |            |
| Team Leader        | YES                                                                                                    |      |            |
| Validator          | YES                                                                                                    |      |            |
| Verifier           | YES                                                                                                    |      |            |
| Methodology Expert | AMS.I.A., AMS.I.C., AMS.I.D., AMS.I.F., AMS.II.D., AMS.II.G., AMS.II.J., AMS.III.AV., ACM0002, ACM0012 |      |            |
| Local expert       | YES (India)                                                                                            |      |            |
| Financial Expert   | NO                                                                                                     |      |            |
| Technical Reviewer | YES                                                                                                    |      |            |
| TA Expert          | YES (TA 1.2, TA 3.1)                                                                                   |      |            |
|                    |                                                                                                        |      |            |
| Reviewed by        | Abhishek Mahawar                                                                                       | Date | 01/03/2018 |
| Approved by        | Ashok Gautam                                                                                           | Date | 01/03/2018 |

## 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           |

| Abbreviations     | Full texts                      |
|-------------------|---------------------------------|
| 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: METER CALIBRATION DETAILS

The Energy Meters details used for the respective SPV are tabulated below:

### Meter and Calibration Details for 40 MW solar project by Suryoday One Energy Private Limited

| Bay Number       | Bay-01     |             | Bay-02     |             | Calibration Compliance     |
|------------------|------------|-------------|------------|-------------|----------------------------|
| Meter Details    | Main Meter | Check Meter | Main Meter | Check Meter |                            |
| Meter Serial No. | 18037240   | 18037249    | 18037252   | 18015450    | No delay has been observed |
| Meter Maker      | L & T      | L & T       | L & T      | L & T       |                            |
| Accuracy         | 0.2s       | 0.2s        | 0.2s       | 0.2s        |                            |

| Class                        |            |            |            |            |  |
|------------------------------|------------|------------|------------|------------|--|
| Date of Calibration          | 01/03/2018 | 01/03/2018 | 01/03/2018 | 01/03/2018 |  |
| Due date of next calibration | 28/02/2023 | 28/02/2023 | 28/02/2023 | 28/02/2023 |  |

**Meter and Calibration Details for 50 MW solar project by Solar Edge Power & Energy Pvt. Ltd.**

| Meter Details                | Main Meter | Check Meter | Calibration Compliance     |
|------------------------------|------------|-------------|----------------------------|
| Meter Serials No.            | Y0280008   | Y0280009    | No delay has been observed |
| Meter Maker                  | Secure     | Secure      |                            |
| Accuracy Class               | 0.2s       | 0.2s        |                            |
| Date of Calibration          | 10/02/2018 | 10/02/2018  |                            |
| Due date of next calibration | 09/08/2023 | 09/08/2023  |                            |

**Meter and Calibration Details for 80 MW solar project by Solar Edge Power & Energy Pvt. Ltd.**

| Meter Details                | Main Meter | Check Meter | Calibration Compliance     |
|------------------------------|------------|-------------|----------------------------|
| Meter Serials No.            | 0289013    | 02839014    | No delay has been observed |
| Meter Maker                  | Elster     | Elster      |                            |
| Accuracy Class               | 0.2s       | 0.2s        |                            |
| Date of Calibration          | 06/12/2017 | 06/12/2017  |                            |
| Due date of next calibration | 05/12/2022 | 05/12/2022  |                            |

**Meter and Calibration Details for 50 MW solar project by Terralight Kanji Solar Private Limited (Previously known as Shapoorji Pallonji Infrastructure Pvt. Ltd.)**

| Meter Details | Main Meter | Check Meter | Calibration |
|---------------|------------|-------------|-------------|
|---------------|------------|-------------|-------------|

|                              |            |            | <b>Compliance</b>          |
|------------------------------|------------|------------|----------------------------|
| Meter Serials No.            | 17074152   | 17076761   | No delay has been observed |
| Meter Maker                  | L & T      | L & T      |                            |
| Accuracy Class               | 0.2s       | 0.2s       |                            |
| Date of Calibration          | 29/06/2018 | 29/06/2018 |                            |
| Due date of next calibration | 28/06/2023 | 28/06/2023 |                            |