



**Verified Carbon  
Standard**

# NEGROS ISLAND SOLAR POWER INC. PROJECT



Document Prepared By

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

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

**Verification purpose:** The main purpose of this project activity is to generate clean form of electricity through renewable energy sources. The project activity involves installation of Solar Projects. The total installation of 80 MW; which involves operation of 32 MW solar power plant located at the city of La Carlota and 48 MW solar power plant located at the municipality of Manapla in Philippines. The project activity was commissioned on 02-March-2016(La Carlota) and 08-March-2016 Manapla) respectively. The electricity generated from the project activity is supplied to Visayas grid in San Carlos city in Negros island of Philippines, which is mainly dominated by thermal/fossil fuel-based power plant.

Start date of the project activity is 02/03/2016 which is the date of commissioning of 32 MW plant at La Carlota. This is the day on which the first project was commissioned under the Project activity which is as per the registered VCS PD version 03 dated 10/02/2018 and final validation report version 02 dated 12/02/2018. An undertaking has been submitted by PP for double counting would never happens with the any other GHG program.

This is the 2<sup>nd</sup> monitoring under VCS and covers the activity from 26/11/2017 to 26/04/2020 (inclusive of both dates). The total emission reductions achieved for the project activity during the monitoring period has been 155,337 tCO<sub>2e</sub>.

Thus, VCS crediting period should be maximum of 10 years and renewed twice for maximum two times. The start date of crediting period is 02/03/2016 and 01/03/2026 will be the end date of the crediting period.

A risk based approach has been followed to perform this verification activity. In the course of verification, 03 Corrective Action requests (CAR), 00 Clarification Requests (CLs) and 00 Forward action requests (FARs) were raised and successfully closed. The review of the Monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and PP have provided DOE with

sufficient evidence to verify the fulfilment of the stated criteria of VCS.

Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified emission reductions (VERs).

The scope of the verification is the independent and objective review of the Monitoring report (MR). The MR is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board and VCS executive board, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM validation and verification standard for project activities, Version 02, review against registered PD and Final Validation report, CDM Project Standard for project activities, version 02, CDM project cycle procedure for project activities, version 02 and VCS program guideline and standard version 4.0.

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

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

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

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# 1 INTRODUCTION

## 1.1 Objective

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “Negros Island Solar Power Inc.” to perform the 2<sup>nd</sup> periodic verification of the “Negros Island Solar Power Inc. Project” under VCS standard and guideline version 4.0. The objective of this verification activity is to have an independent third party for the assessment of the project design, monitoring report and final verification report and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular;

- the project's baseline is assessed against “ACM0002- version 17.0”
- the project’s monitoring plan is assessed against “ACM0002 - version 17.0”
- the projects compliance with, the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS guideline and standard version 4.0
- CDM validation and verification standard for project activities, Version 02
- CDM Project Standard for project activities, version 02
- CDM project cycle procedure for project activities, version 02
- VCS standard v4.0
- VCS program guideline v4.0

Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified emission reductions (VERs).

## 1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR) prepared as per the registered PD and registered approved methodology ACM0002 version 17. The MR is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board and VCS standard and guideline version 4.0, including the approved baseline and monitoring methodology ACM0002 version 17. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 02, CDM Project Standard for project activities,

version 02, CDM project cycle procedure for project activities, version 02 and VCS program guideline and standard version 4.0

The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the Monitoring report. In line with Guidelines for Application of materiality in verifications, the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. It invoices follows the paper trail back to the raw data such as meter reading records and invoices. There are no material errors, overestimation of ER, omission or misstatement. No sampling is used as the verification team has verified PV panels and meters at substation through photographs as remote audit conducted due to COVID-19 pandemic and international travel restriction. The verification team has reviewed all the documents like commissioning certificates, JMR, invoices etc.

### 1.3 Level of Assurance

The verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. A remote audit conducted due to pandemic situation and technical details and metering / monitoring arrangement verified through photos/certificates shared by PP. No sampling procedure applied and so the entire documents have been checked / Power plant verification conducted to arrive at positive verification conclusions.

### 1.4 Summary Description of the Project

The project activity involves installation of Solar Projects. The total installation of 80 MW; which involves operation of 32 MW La Carlota solar power plant which includes 2 phases of 18 MW and 48 MW solar power plant located in Manapla Municipality in San Carlos city of Philippines. The purpose of the project activity is to generate electricity by the utilization of solar power project. In this process there is no consumption of any fossil fuel and hence it does not lead to any greenhouse gas emissions. The project activity was commissioned on 02-March-2016(La Carlota) and 08-March-2016 (Manapla) respectively. The electricity generated from the project activity is supplied to State Electricity Grid, which is mainly dominated by thermal/fossil fuel-based power plant. The electricity generated from the project activity is supplied to Visayas grid in San Carlos city in Negros island of Philippines, which is mainly dominated by thermal/fossil fuel-based power plant. The monitoring period of this VCS verification covered from 26/11/2017 to 26/04/2020 (inclusive of both dates) and the project activity has achieved 155,337 tCO<sub>2</sub>e emission reductions during this monitoring period.

Start date of the project activity is the 02/03/2016. An undertaking has been submitted by PP for double counting would never happen with any other GHG program.

The timeline for Commission of the project activity is also checked by the assessment team. Assessment team checked the Commission of solar panels with the commissioning Certificates and found correct. The solar PV plants are commissioned on 02/03/2016 and 08/03/2016 respectively. The project is implemented as per the description in the registered PD. No event observed during the current monitoring period which can alter or deviate from the methodology requirement.

## 2 VERIFICATION PROCESS

### 2.1 Method and Criteria

**Verification Process:** The project assessment is based on the “CDM validation and verification standard for project activities, Version 02 and “VCS standard and program guideline version 4.0” and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed.

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

1. A desk review of the Monitoring report against the registered PD and final validation report;
2. Follow-up interviews with project participant;
3. The resolution of outstanding issues and the issuance of the final verification report and opinion.

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

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced. Applus+ Certification has developed a specific checklist customized for the project. The checklist demonstrates, in a transparent manner, the project criteria (requirements), discussion on each criterion by the assessment team, and the results from validating the identified criteria.

### **Appointment of the assessment team**

According to the applicable sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed an assessment team in compliance with the Contract Review and Assessment Team appointment rules in the internal Quality Management System of Applus+ Certification as well as in compliance with the applicable requirements in the Accreditation Standard.

The composition of the Assessment Team has been approved by Applus+ Certification during the Contract Review process ensuring that the required skills and capabilities are covered.

The qualification levels for Assessment Team members that are assigned by aforementioned appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Technical Reviewer (TR).

Any of the above mentioned roles in training (iT, e.g. AiT for auditor in training).

The Sectoral Scope / Technical Area required knowledge linked to the applied methodology(ies) is covered by the Assessment Team as shown below:

| Name             | Role    | SS/TA Knowledge | Financial Expertise | Attendance to on-site visit | Host country experience |
|------------------|---------|-----------------|---------------------|-----------------------------|-------------------------|
| Mr. Pankaj Kumar | LA / TE | YES (1.2)       | <i>n/a</i>          | <i>n/a</i>                  | YES                     |
| Mr. Simon Shen   | TR /TE  | YES (1.2)       | <i>n/a</i>          | <i>n/a</i>                  | <i>n/a</i>              |

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

### **Document review**

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

### **Follow-up interviews**

A remote audit is conducted by Applus+ Certification. Audit team performed interviews through telephone conferences with project stakeholders to confirm selected information

and to resolve issues identified in the document review. The detail is provided in this report.

### **Resolution of Clarification and Corrective Action Request**

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

The final MR Version 02 submitted by PP serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

### **Internal quality control**

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

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

## 2.2 Document Review

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

## 2.3 Interviews

| No. | Interviewee |             |  | Date       | Subject  | Team member  |
|-----|-------------|-------------|--|------------|--|--------------|
|     | Last name   | First name  | Affiliation  |            |  |              |
| 1.  | Van Burgos  | Lord Lee    | Asst. Vice President, Solar Operations (PP Representative) | 25/09/2020 | Implementation of the project and monitoring. Baseline emission calculation, achieved emission reduction for the monitoring period, monitoring process followed onsite | Pankaj Kumar |
| 2   | Emriquez    | Vince       | Plant Incharge(PP representative)                          | 25/09/2020 | Implementation of the project and monitoring. Baseline emission calculation, achieved emission reduction for the monitoring period, monitoring process followed onsite |              |
| 3   | Sahu        | Prakash Kr. | Consultant   | 25/09/2020 | Baseline emission calculation, achieved emission reduction for the monitoring period, monitoring proces  |              |

## 2.4 Site Inspections

| Date of Remote Audit: 25/09/2020 |                  |               |      |             |
|----------------------------------|------------------|---------------|------|-------------|
| No.                              | Topics discussed | Site location | Date | Team member |

|    |   |    |            |              |
|----|---|----|------------|--------------|
| 1. | <p>Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring.</p> <p>Assessment team also checked that whether the monitoring plan as described in the VCS PD is actually practised onsite. Also assessment team checked any change in host country criteria which may affect the baseline of the project activity.</p> | NA | 25/09/2020 | Pankaj Kumar |
|----|---|----|------------|--------------|

No physical verification was conducted by the DOE for this verification due to high threat of COVID-19 pandemic and international travel restrictions. As DoE office based in India and project site located in Philippines, it was not possible to conduct site visit. Furthermore, 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, v4.0).

The DOE has taken alternative measures to reach reasonable level of assurance and conducted remote audit through skype interview on 25/09/2020 (refer section 2.3) with the representative of PP and consultants. The project sites are not accessible in these locations due to travel restriction. Hence, remote audit conducted through skype call and the same was recorded. Further, during skype interview with PPs, the implementation of project activity and monitoring procedure and systems in place was confirmed. Technical specifications of the plant verified through the photographs/name plates of solar plant (refer Appendix 6) shared by PPs and the same was cross checked with the previous verification report. Assessment team also checked through interviewing PP whether the monitoring plan as described in the VCS PD is actually practiced onsite.

After skype interview with PP representatives and verifying the photographs of solar panels and calibration certificates of meters, verification team confirmed that monitoring procedure is followed as per registered VCS PD and there is no change in technical specifications of plants since installation and all the meters are calibrated in accordance with VCS PD and host country metering guidelines.

## 2.5 Resolution of Findings

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

The final MR Version 2 submitted by PP serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

| <b>Areas of validation and verification findings</b>   | <b>No. of CL</b> | <b>No. of CAR</b> | <b>No. of FAR</b> |
|--|------------------|-------------------|-------------------|
| Project design document and Monitoring report  | 00               | 00                | 00                |
| Description of project activity  | 00               | 01                | 00                |
| Application of selected baseline and monitoring methodology and selected standardized baseline |                  |                   |                   |
| Applicability of methodology and standardized baseline   | 00               | 00                | 00                |
| Deviation from methodology   | 00               | 00                | 00                |
| Clarification on applicability of methodology, tool and/or standardized baseline               | 00               | 00                | 00                |
| Project boundary   | 00               | 00                | 00                |
| Establishment and description of baseline scenario   | 00               | 00                | 00                |
| Demonstration of additionality   | 00               | 00                | 00                |
| Emission reductions  | 00               | 01                | 00                |
| Calibration details  | 00               | 01                | 00                |
| Monitoring plan  | 00               | 00                | 00                |
| No Net harm assessment   | 00               | 00                | 00                |
| Local stakeholder consultation   | 00               | 00                | 00                |
| Others (please specify)  | 00               | 00                | 00                |
| <b>Total</b>   | <b>00</b>        | <b>03</b>         | <b>00</b>         |

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

### 2.5.1 Forward Action Requests

This is 2<sup>nd</sup> periodic verification of the project activity and no FAR was raised from previous verification.

### 2.6 Eligibility for Validation Activities

This section is not applicable for present verification.

## 3 VALIDATION FINDINGS

### 3.1 Participation under Other GHG Programs

Project activity has not participated under other GHG program.

### 3.2 Methodology Deviations

No deviation requested by PP.

### 3.3 Project Description Deviations

This section is not applicable for present verification.

### 3.4 Grouped Project

This is not a grouped project.

## 4 VERIFICATION FINDINGS

### 4.1 Project Implementation Status

During the skype interview with PP (remote audit), it was concluded that the project is implemented as per the requirement of the registered VCD PD and approved monitoring plan. During the current monitoring period, it was observed that no unforeseen incident/event evolved which can impact the operation of the project activity. The project undergone continuous operation and only scheduled maintenance is observed as per the manufactures specification which is acceptable to the assessment team.

Project location is confirmed by the assessment team through interview with the PP and monitoring report. Assessment team also checked with the photograph of project site containing the latitude and longitude of the project site and confirm that the details as mentioned in the registered PD are correct. The latitudes and longitudes of both the project sites are confirmed below:

#### **La Carlota 32MW Solar Power Plant**

geographical coordinates between 122° 56' 5" and 122° 56' 25" East Longitude and 10° 25' 10" and 10° 25' 40" North Latitude.

### Manapla 48MW Solar Power Plant

The plant is located on Latitude: 10.9° North Latitude and 123.2° East Longitude.

Solar plant construction and commissioning dates confirmed as below:

| Event                | 32MW La Carlota  | 48MW Manapla  |
|----------------------|------------------|---------------|
| Date of Construction | 03-November-2014 | 28-May-2015   |
| Commissioning Date   | 02-March-2016    | 08-March-2016 |

Assessment team checked the commissioning certificate and confirmed that the dates of Commission for the solar panels are correct.

The technical parameters have been verified with the photographs of sites and name plates (Refer appendix 6) as well as with the technical specifications of Solar plant and also cross checked from the technical manual of the Manufactures.

The technical specifications of the solar PV module and other components installed at the project site are as follows:

| Category                   | La Carlota (32 MW)  |                                      | Manapla (48 MW)                      |                                      |
|----------------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|
| <b>PV Modules</b>          |   |                                      |                                      |                                      |
| Module Model               | Conergy PH 260P   | Conergy PE 265P                      | Conergy PE 275M                      | Conergy PE 270M                      |
| Module type                | Framed  | Framed                               | Framed                               | Framed                               |
| Nominal output             | 260W  | 265W                                 | 275W                                 | 270W                                 |
| Unit Nom. Power            | 260 Wp  | 265 Wp                               | 275 Wp                               | 270 Wp                               |
| Number of PV modules       | 123,096<br>(Phase 1 18MW:<br>69,240 modules<br>Phase 2 14MW:<br>53,856 modules) | 92,352                               | 34,632                               | 52,056                               |
| Total nominal Power Output | Phase 1: 18,002 kWp<br>Phase 2: 14,003 kWp                                      | 24,473 kWp                           | 9,524 kWp                            | 14,055 kWp                           |
| No. of cells               | 60  | 60                                   | 60                                   | 60                                   |
| Cell dimensions            | 156x156mm   | 156x156mm                            | 156x156mm                            | 156x156mm                            |
| Cell type                  | Polycrystalline cell, 3-busbar technology                                       | Polycrystalline, 3-busbar technology | Monocrystalline, 3-busbar technology | Monocrystalline, 3-busbar technology |
| Module weight              | 19.5kg  | 18.2kg                               | 18.2kg                               | 18.2kg                               |
| Maximum                    | 5,400Pa   | 5,400Pa                              | 5,400Pa                              | 5,400Pa                              |

|                                    |  |                        |            |             |
|------------------------------------|--|------------------------|------------|-------------|
| permissible load                   |  |                        |            |             |
| Maximum permissible System voltage | 1,000V   | 1,000V                 | 1,000V     | 1,000V      |
| <b>Inverter</b>                    |  |                        |            |             |
| Inverter model                     | Sunny Central 850CP XT   | Sunny Central 900CP XT |            |             |
| Operating voltage                  | 568-850V   | 596-850V               |            |             |
| Unit Nom. Power                    | 850 kWac   | 900 kWac               |            |             |
| No. of inverter                    | 32 units<br>(Phase 1 18MW: 18 units<br>Phase 2 14MW: 14 units) | 23 units               | 9 units    | 13 units    |
| Total Power                        | Phase 1: 15,300 kWac<br>Phase 2: 11,900 kWac                   | 20,700 kWac            | 8,100 kWac | 11,700 kWac |
| <b>Transformer</b>                 |  |                        |            |             |
| Serial No.                         | VN01106<br>3- phase transformer                                | 75660                  |            |             |
| No. of transformer                 | 01 set   | 01 set                 |            |             |
| Highest rate power                 | 35/35 MVA  | 50 MVA                 |            |             |
| Voltage                            | 69 ± 8 x 1.25%/13.8 kV   | 69 ± 8 x 1.25% Steps   |            |             |
| Frequency                          | 60Hz   | 60 Hz                  |            |             |

The assessment team confirmed through skype interview with PP that there is no proposed or actual change to the project design during this monitoring period. It was found that the monitoring plan was implemented as per the registered VCS PD and applied methodology ACM 0002 Version 17.0. The organisational role and responsibility as mentioned in the registered PD is followed onsite. All the monitoring equipment was calibrated as per the specified interval in the registered PD. Meters are calibrated in line with the requirement of calibration frequency in VCS PD. All the emergency preparedness as mentioned in the registered PD is followed onsite and no discrepancies were found regarding the same.

Further, the project activity has not participated under any other GHG program, apart from Verified Carbon Standard and REC. PP will not claim benefits of carbon emission reduction credits achieved through this project activity under any other GHG programme for the crediting period claimed under VCS. Moreover, the project has not generated any other form of environmental credit and a declaration for the same has been submitted to the assessment team and the same is acceptable.

The assessment team observed that the project is in line with the registered PD, FVR and approved methodology and thus no clarification/deviation is sought. CAR 01, CAR02 and CAR 03 were raised during the verification process and closed successfully. Please refer below Appendix 2 for the detail closure of the CAR

Assessment team confirms following during the remote audit:

1. Start date of the project is 02/03/2016 which is the date of commissioning of 32 MW Solar power plant at La Carlota site.
2. An undertaking letter dated: 28/09/2020 has been submitted by PP for double counting with any other GHG program. PP also has given a written declaration that project has not claimed other form of GHG credit for the concerned monitoring period.
3. Assessment team confirms that this is the 2<sup>nd</sup> monitoring under VCS and covers the activity from 26/11/2017 to 26/04/2020 (inclusive of both dates). Thus, VCS crediting period should be maximum of 10 years and renewed twice. 02/03/2016 is the start date and 01/03/2026 will be the end date of the crediting period.  
The GHG credits from 26/11/2017 to 26/04/2020 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the "Double Counting".
4. Assessment team checked and found that the Project proponent of the project activity is as below for the current monitoring period:

|                   |  |
|-------------------|--|
| Organization name | Negros Island Solar Power Inc.   |
| Contact person    | Lord Lee Van Burgos  |
| Title             | Assistant Vice President – Solar Operations                                      |
| Address           | Emerald Arcade, F.C. Ledesma St. San Carlos City, Negros Occidental, Philippines |
| Telephone         | +632 8311235   |
| Email             | burgos.llvp@acenergy-devco.com   |

5. The quantified emission reduction calculation for the monitoring period is correct and conservative. Assessment team also compared actual VER with the estimated VER and

found that the actual VER is 155,337 tCO<sub>2</sub>e which is 2.66% lower than the estimated emission reduction 159,580 tCO<sub>2</sub>e (66,039 tCO<sub>2</sub>e/ 365 days\* 882 days) during this monitoring period which is due to climatic conditions and low PLF attained by the solar power plant during the current monitoring period.

## 4.2 Safeguards

### 4.2.1 No Net Harm

No potential environment or socio-economic matter was found during call conducted as part of remote audit. The project is renewable energy project and thus no negative impact observed onsite.

The project activity promotes environmental and socio-economic well-being as it results in zero GHG emissions due to installation and operation of clean, renewable energy technology for electricity generation.

However, assessment team still conducted the No net harm assessment for some of the parameters and the result is described below.

| SL.NO | Indicator      | Assessment team opinion   |
|-------|----------------|---|
| 1     | Air quality    | <p>The project generates clean energy which replaces the fossil fuel intensive electricity generation.</p> <p>Adequate measures were taken to mitigate the envisaged impacts like spraying water on the road side to reduce dust level, etc. This was confirmed by the local stakeholders. Therefore, it is validated that mitigation measures were robustly implemented on ground for air quality issues project will have a positive impact on air quality.</p>   |
| 3     | Soil condition | <p>There are negligible impacts envisaged during operation of the project activity.</p> <p>For mitigating the impacts during construction, various mitigation measures were taken which is verified from the plant records of PPs.</p> <p>The top soil excavated during construction, was stockpiled and used for compaction. The roads were not paved and soling was done with excavated earth &amp; rock material, so land disturbance could be minimized.</p> <p>It was also confirmed that, the vegetation done at site helps for soil erosion. The same was confirmed during the con call with site personnel and verified with photographs of project locations.</p> <p>Therefore, it can be concluded that the project has no effect on soil conditions during its operation because it has no waste coming out.</p> |
| 4     | Biodiversity   | Based on the photos shared by PP, it was observed that the  |

| SL.NO | Indicator              | Assessment team opinion   |
|-------|------------------------|---|
|       |                        | <p>condition of ground vegetation gradually improved; No rare species has been found in the around area.</p> <p>The project site is not on the migration route of migratory bird. As Such wind and solar power plant do not have any obstruction in the path of migratory birds.</p> <p>With the implementation of Project, the greening water will be increased significantly; the biodiversity in the vicinity will be improved with the vegetation improvement.</p> <p>No negative impact envisaged.</p> |
| 5     | Employment Generation  | <p>The project activity employed local population as skilled workers as well as security guards which were confirmed during con call and with plant records shared by PP. The personnel employed by the project activity are also provided trainings and exposed to various awareness programs therefore a positive indicator has been accepted.</p>  |
| 6     | Livelihood of the poor | <p>The project is associated with infrastructure development like roads in the nearby areas and promoting economic activities like grants to local school and communities' temples etc. Also, project employed local villagers as guards for the security of power project.</p> <p>Positive impact envisaged.</p>   |

#### 4.2.2 Local Stakeholder Consultation

All the stakeholders are happy with the implementation and operation of the project activity and no negative comments envisaged for the project activity. There was no change in technical project description form the registered VCS PD. Assessment team confirmed the same during remote audit.

#### 4.3 AFOLU-Specific Safeguards

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

#### 4.4 Accuracy of GHG Emission Reduction and Removal Calculations

|                    |    |  |
|--------------------|----|--|
| Means verification | of | The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the VCS PD. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the VCS PD |
| Findings           |    | CAR 02 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.   |
| Conclusion         |    | The baseline Emissions for a given year is calculated by multiplying the energy baseline (EB) with the regional grid emission factor.  |

|  |   |
|--|---|
|  | <p>Formula Used:-<br/>Baseline emission:</p> $BE_y = EGP_{J,y} \times EF_{grid,CM,y}$ <p>Where,<br/> <math>BE_y</math> = Baseline Emissions in year y; tCO<sub>2</sub><br/> <math>EGP_{J,y}</math> = Quantity of net electricity generation supplied by the project solar power) plant/unit to the grid in year y<br/> <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 “Tool to calculate the emission factor for an electricity system” (tCO<sub>2</sub>/MWh)</p> <p>Ex-ante parameters:<br/>                 The baseline emission factors are taken ex-ante in line with the registered VCS PD as well as cross checked with section validation report and found correct. Combined margin CO<sub>2</sub> emission factor of State grid of Philippines (<math>EF_{grid,CM,y}</math>) is equal to 0.5535 tCO<sub>2</sub>/MWh. The calculation approach was in line with the VCS PD.<br/>                 Values are as follows:<br/> <math>EF_{grid,OM,y} = 0.6032</math> tCO<sub>2</sub>/MWh<br/> <math>EF_{grid,BM,y} = 0.4044</math> tCO<sub>2</sub>/MWh<br/> <math>EF_{grid,CM,y} = 0.5535</math> tCO<sub>2</sub>/MWh</p> <p><math>EG_{m,y}</math> = Net electricity generated by power plant/unit m in year y in MWh. This data fixed ex ante and provided by Philippines DoE for calculation of grid emission factor</p> <p><math>EF_{CO_2,m,i,y}</math> = CO<sub>2</sub> emission factor of fuel type I used in power unit m in year y (tCO<sub>2</sub>/GJ). This data fixed ex ante and provided by Philippines DoE for calculation of grid emission factor</p> <p><math>\eta_{m,y}</math> = Average net energy conversion efficiency of power unit m in year y. This data fixed ex ante and provided by Philippines DoE for calculation of grid emission factor</p> <p><b>Ex-post parameter:</b><br/>                 As per the registered monitoring plan and requirement of the registered methodology the parameter <math>EG_{facility,y}</math> i.e. “Quantity of net electricity generation supplied by the project (wind or solar) plant/unit to the grid in year y needs to be monitored. Net electricity generated and supplied by the project is ( solar plant to the grid = electricity export to the grid - electricity import from the grid which 280,655 MWh. The verification team checked the entire monthly JMR reports for the net electricity generated &amp; supplied to the grid and crosschecked the same with the invoices raised by PP to the state Visayas Board for the monitoring period. All relevant</p> |
|--|---|

|  |  |
|--|--|
|  | <p>monitoring parameters have been verified with regard to the appropriateness of the applied measurement/determination method, the correctness of the values applied for ER calculation, the accuracy, and applied QA/QC measures.</p> <p>Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors.</p> <p>BE<sub>y</sub> baseline emissions, tCO<sub>2</sub>e</p> <p>BE<sub>y</sub> = 280,655 MWh x 0.5535 tCO<sub>2</sub>e/MWh<br/>         = 155,337 tCO<sub>2</sub>e (round down values)</p> <p>As per para 37 of ACM0002 - Version 17.0, 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 &amp; solar power project emissions are taken as zero.</p> <p>Leakage: As per para 60 of ACM0002 - Version 17.0, Leakage emissions are not considered for the project activity.</p> <p>Hence, ER<sub>y</sub>= BE<sub>y</sub></p> <p>Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the registered VCS PD.</p> |
|--|--|

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

|                              |  |
|------------------------------|--|
| <b>Means of verification</b> | The verification team checked the Calibration details of the monitoring meters with the calibration certificates.  |
| <b>Findings</b>              | CAR 03 was raised during the verification process. The description of the CAR and its closure is described below in Appendix 2 of this report.   |
| <b>Conclusion</b>            | <p>The metering is being carried out by electronic tri-vector bi-directional energy meter of accuracy class IEC 687, 0.2s (main &amp; check) which measured both export and import. For measuring the net energy supplied to grid by the project activity at the interconnection point, one set of Main meter and Check Meter provided This electricity meter is being used by Philippine Electricity Market Corporation (PEMC) for JMR (Joint Meter Reading) electricity generation statement.</p> <p>The meters are monitored continuously and cumulative readings are taken at the end of the month by joint meter reading procedures. All the energy meters are under the control of PEMC. These Meters are calibrated once in a year by the meter testing division of the PEMC in the presence of O &amp; M contractor/Investors representative and PEMC officials to ensure the working of meter within permissible limits. Calibration details of the monitoring meters checked with calibration certificates submitted by PP and found that calibration frequency of 1 (one) year is complied. Calibration details are provided in Appendix -5 of this report.</p> <p>No unforced error observed and feeder wise Solar Power plant location is</p> |

|  |  |
|--|--|
|  | also checked and found correct. Assessment team confirms that all the energy meters are of accuracy class of 0.2s, are calibrated as per the national standards followed by the electricity board. |
|--|--|

#### 4.6 Non-Permanence Risk Analysis

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

## 5 VERIFICATION CONCLUSION

Applus+ Certification has been engaged by Negros Island Solar Power Inc. to perform the 2<sup>nd</sup> periodical verification of the “Negros Island Solar Power Inc. Project”.

The Negros Island Solar Power Inc is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the registered VCS PD and the applied methodology ACM0002 - Version 17.0.

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

- the project is operated as planned and described in the project document;
- the monitoring plan is as per the applied methodology;
- the monitoring process in Monitoring Report is as per the PD
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;

- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A Reasonable Level of assurance was achieved as planned during verification process.
- Verification period: 26/11/2017 to 26/04/2020(inclusive of both days)

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

| <b>Year</b>                          | <b>Baseline emissions or removals (tCO<sub>2</sub>e)</b> | <b>Project emissions or removals (tCO<sub>2</sub>e)</b> | <b>Leakage emissions (tCO<sub>2</sub>e)</b> | <b>Net GHG emission reductions or removals (tCO<sub>2</sub>e)</b> |
|--------------------------------------|--|---|---|---|
| 26-November-2017 to 31-December-2017 | 5,391  | 0   | 0   | 5,391   |
| 01-January-2018 to 31-December-2018  | 62,773   | 0   | 0   | 62,773  |
| 01-January-2019 to 31-December-2019  | 64,786   | 0   | 0   | 64,786  |
| 01-January-2020 to 26-April-2020     | 22,387   | 0   | 0   | 22,387  |
| <b>Total</b>                         | 155,337  | 0   | 0   | 155,337   |

## APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

| No. | Author | Title   | References to the document                         | Provider            |
|-----|--------|---|--|---------------------|
| 1   | NA     | Commissioning certificates of the Solar PV Plants   | Commissioning certificates                         | Project participant |
| 2   | NA     | Contract of the project participant with the DOE  | Contract document signed between PP and DOE        | Project participant |
| 3   | NA     | The operational lifetime of the project activity from the manufacturer = (Technical specifications)   | Manufacturer technical specifications              | Project participant |
| 4   | NA     | Registered PD<br><a href="https://registry.verra.org/app/projectDetail/VCS/1735">https://registry.verra.org/app/projectDetail/VCS/1735</a>  | NA   | Project participant |
| 5   | NA     | Calibration Certificates of energy meters   | Calibration Certificates                           | Project participant |
| 6   | NA     | Emission reduction sheet version 01   | ER sheet version 01 dated 08/06/2020               | Project participant |
| 7   | NA     | Emission reduction sheet version 02   | ER sheet version 02 dated 28/09/2020               | Project participant |
| 8   | NA     | MR version 01   | 08/06/2020   | Project participant |
| 9   | NA     | MR version 02   | 28/09/2020   | Project participant |
| 10  | NA     | Power Purchase Agreements (PPA)   | PPAs   | Project Participant |
| 11  | NA     | O & M Agreement   | O & M Agreement                                    | Project Participant |
| 12  |        | VCD PD  | Version 03, dated 10/02/2018                       | Project participant |
| 13  |        | Final VCS validation report   | Ver. 3 dated 12/02/2018                            | Project participant |
| 14  | NA     | Tools/ guidelines used in the project activity <ul style="list-style-type: none"> <li>• Glossary of CDM terms version 07</li> <li>• VCS verification report template version 4.0</li> </ul> | UNFCCC CDM/VCS web site                            | UNFCCC/ VERRA       |
| 15  | NA     | Monthly statement- JMR for the complete monitoring period   | Monthly statement of electricity export and Import | Project participant |
| 16  | NA     | Invoices for the complete monitoring period   | Invoice  | Project participant |

|    |    |   |                              |                     |
|----|----|---|------------------------------|---------------------|
| 17 | NA | Project site photographs  | NA                           | Project participant |
| 18 | NA | Declaration regarding no participation in other GHG program for the concerned monitoring period | Declaration dated 28/09/2020 | Project participant |

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

|  |    |                    |                |                          |
|--|----|--------------------|----------------|--------------------------|
| <b>CAR ID</b>  | 01 | <b>Section no.</b> | 4.1, 4.2 & 5.1 | <b>Date :</b> 26/09/2020 |
| <b>Description of CAR</b>  |    |                    |                |                          |
| <ol style="list-style-type: none"> <li>1. In sec. 4.1, value of EF<sub>Grid, BM,y</sub> is missing</li> <li>2. In section of 4.1 and 5.1, the value of combined margin emission factor is not consistent with the ER sheet.</li> </ol>   |    |                    |                |                          |
| <b>Project participant response</b>  |    |                    |                | <b>Date:</b> 28/09/2020  |
| <ol style="list-style-type: none"> <li>1. EF<sub>Grid, BM,y</sub> is being added to the MR V2.</li> <li>2. Section 4.1 and 5.1 of the combined margin emission factor is now being consistent with revised MR</li> </ol>   |    |                    |                |                          |
| <b>Documentation provided by project participant</b>   |    |                    |                |                          |
| MR V2 and ER V2  |    |                    |                |                          |
| <b>DOE assessment</b>  |    |                    |                | <b>Date:</b> 28/09/2020  |
| <ol style="list-style-type: none"> <li>1. <b>Ex ante parameter</b> EF<sub>Grid, BM,y</sub> is now added in sec. 4.1 of revised MR, ver. 02 dated 28/09/2020.</li> <li>2. <b>PP has corrected the value of combined margin emission factor in sec. 4.1 and 5.1 of revised MR, Ver. 02 dated 28/09/2020. Validation team found the values are consistent with ER sheet. CAR closed.</b></li> </ol> |    |                    |                |                          |

|  |    |                    |                 |                         |
|--|----|--------------------|-----------------|-------------------------|
| <b>CAR ID</b>  | 02 | <b>Section no.</b> | 1.9 & 1.10, 2.1 | <b>Date:</b> 26/09/2020 |
| <b>Description of CAR</b>  |    |                    |                 |                         |
| <ol style="list-style-type: none"> <li>1. PP shall provide an undertaking to confirm that there will be no double counting of GHG reduction claimed in any other mechanism.</li> <li>2. Under sec. 2.1 (No net harm), wind power project discussed, corrective action required.</li> </ol> |    |                    |                 |                         |
| <b>Project participant response</b>  |    |                    |                 | <b>Date:</b> 28/09/2019 |
| <ol style="list-style-type: none"> <li>1. No double counting of GHG reduction declaration has been provided.</li> <li>2. Section has been revised.</li> </ol>  |    |                    |                 |                         |

| Documentation provided by project participant  |                  |
|--|------------------|
| MR V2 and No double counting declaration   |                  |
| DOE assessment   | Date: 28/09/2020 |
| <ol style="list-style-type: none"> <li>1. PP has provided an undertaking dated 28/09/2020 regarding no double counting GHG reduction for this monitoring period.</li> <li>2. PP has corrected the description in sec. 2.1 of revised MR, ver. 2.0 dated 28/09/2020. CAR Closed.</li> </ol> |                  |

| CAR ID   | 03 | Section no. | 4.1 & 4.4 | Date: | 26/09/2020       |
|--|----|-------------|-----------|-------|------------------|
| Description of CAR   |    |             |           |       |                  |
| <ol style="list-style-type: none"> <li>1. PP shall provide the Joint metering report and invoice for the entire monitoring period.</li> <li>2. PP is requested to submit Calibration certificate of meter applicable for this monitoring period</li> </ol>   |    |             |           |       |                  |
| Project participant response   |    |             |           |       | Date: 28/09/2020 |
| <ol style="list-style-type: none"> <li>1. Complete monitoring period joint meter report is being provided.</li> <li>2. Calibration report covering the complete monitoring period is being provided.</li> </ol>  |    |             |           |       |                  |
| Documentation provided by project participant  |    |             |           |       |                  |
| JMR, invoices for the monitoring period and Calibration Records.   |    |             |           |       |                  |
| DOE assessment   |    |             |           |       | Date: 28/09/2020 |
| <ol style="list-style-type: none"> <li>1. PP has provided copies of metering reports along with invoices for entire monitoring period which was checked with ER spread sheet and found to be correct and appropriate.</li> <li>2. PP provided calibration certificates of all meters involved in monitoring period. CAR closed.</li> </ol> |    |             |           |       |                  |

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

### Verification team member

| No. | Role                          | Type of resource | Last name | First name | Affiliation<br>(e.g. name of central or other office of DOE or outsourced entity) | Involvement in |                         |              |                       |
|-----|-------------------------------|------------------|-----------|------------|---|----------------|-------------------------|--------------|-----------------------|
|     |                               |                  |           |            |   | Desk review    | Remote audit (Con call) | Interview(s) | Verification findings |
| 1.  | Lead Auditor/Technical Expert | OR               | Kumar     | Pankaj     | TQC-Outsourced entity   | Yes            | Yes                     | Yes          | Yes                   |

### Technical reviewer and approver of the verification and certification report

| No. | Role                    | Type of resource | Last name | First name | Affiliation<br>(e.g. name of central or other office of DOE or outsourced entity) |
|-----|-------------------------|------------------|-----------|------------|---|
| 1.  | Technical reviewer (TR) | EI               | Shen      | Simon      | Applus+ Certification   |
| 2.  | Approver                | IR               | Sendin    | Juan       | Applus+ Certification B.U. Managing Director                                      |

### Short CVs of the Team:

1. Pankaj Kumar worked as team leader – Bihar for South Asia Climate Proofing and Growth Development(CPGD) – Climate Change Innovation Programme (CCIP) supported by DFID that seeks to mainstream climate change resilience into planning and budgeting at the national and sub-national level in India, Pakistan, Nepal, and Afghanistan. Pankaj Kumar has worked previously with IL&FS Infrastructure Development Corporation and BUIDCO(Bihar Urban Infrastructure Development Corporation), Govt. Of Bihar as Environmental Specialist for WB & ADB funded projects. Prior to this, he worked with

Carbon Check (UNFCCC accredited DoE), Johannesburg, RSA as Team Leader for validation, verification of around 100 GHG projects in Asia, Africa, USA, Asia Pacific & Americas. Pankaj is accredited Lead Auditor, Validator, Verifier and Technical Expert for Sectoral Scope/Technical Area – 1.1, 1.2, 3.1 & 13.1 by UNFCCC DoE (Designated Operational Entity), APPLUS, Spain. He is also member of task force on climate change & human health, Health Department, GoB and on roster of UNICEF's WASH experts.

He is an experienced, qualified and result oriented Environment Professional having more than 14 yrs. Of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Validation and Verification of GHG project under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He provides technical support for environmental investigative, consultative and remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing

Pankaj Kumar is Masters in Environment Management from Forest Research Institute (University), I.C.F.R.E, Dehradun, which is Centre of Excellence in South East Asia for Forestry education & research and PGDEL from National Law School of India University, Bangalore (India).

2. Simon Shen (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review.

He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 5 years before he joined Applus+.

Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

## APPENDIX 4: ABBREVIATIONS

| Abbreviations    | Full texts                      |
|------------------|---------------------------------|
| BM               | Build Margin                    |
| CAR              | Corrective Action Request       |
| CDM              | Clean Development Mechanism     |
| CER              | Certified Emission Reduction(s) |
| CEA              | Central Electricity Authority   |
| CL               | Clarification request           |
| CM               | Combined Margin                 |
| CMS              | Central Monitoring system       |
| CO <sub>2</sub>  | Carbon dioxide                  |
| CO <sub>2e</sub> | Carbon dioxide equivalent       |
| DNA              | Designated National Authority   |
| DOE              | Designated Operational Entity   |
| DR               | Document Review                 |
| EF               | Emission Factor                 |
| EIA              | Environmental Impact Assessment |
| ER               | Emission Reductions             |
| FAR              | Forward Action Request          |
| GHG              | Greenhouse gas(es)              |
| GWP              | Global Warming potential        |
| PP               | Project Participant             |

## APPENDIX 5: CALIBRATION DETAILS OF THE METERS

Calibration details of the solar power plants installed in the project activity is provided below:

### 1. La Carlota 32MW Solar Power Plant

| Meter Type  | Meter Serial Number | Make   | Accuracy Class | Calibration Date   |
|-------------|---------------------|--------|----------------|--|
| Main Meter  | 153631320           | AMETEK | 0.2            | 11-February-2017<br>07-February-2018<br>17-February-2019<br>09-February-2020     |
| Check Meter | 15882036            | ELSTER | 0.2            | 11-February-2017<br><br>07-February-2018<br>17-February-2019<br>09-February-2020 |

The delay in calibration observed in the month of February 2019, therefore error factor have been applied for the same month. Due date of La Carlota 32 MW Energy meter calibration is 08/02/2021. Validation team checked the ER sheet and error factor applied for delay in calibration and found the approach in line with guidelines and conservative.

### 2. Manapla 48MW Solar Power Plant

| Meter Type  | Meter Serial Number                          | Make            | Accuracy Class | Calibration Date   |
|-------------|--|-----------------|----------------|--|
| Main Meter  | 153631349<br>(meter change on<br>02/06/2018) | AMETEK          | 0.2            | 11-February-2017   |
|             | 153475770                                    | LANDIS &<br>GYR | 0.2            | 06-February-2018<br>09-February-2019<br>20-February-2020 |
| Check Meter | 15882039<br>(meter change on<br>02/06/2018)  | ELSTER          | 0.2            | 11-February-2017   |
|             | 15882102                                     | ELSTER          | 0.2            | 06-February-2018<br>09-February-2019<br>20-February-2020 |

The delay in calibration observed in the month of February 2019 and February 2020, therefore error factor have been applied for the same month. Due date of Manapla 48 MW Energy meter

calibration is 19/02/2021. Validation team checked the ER sheet and error factor applied for delay in calibration and found the approach in line with guidelines and conservative.

## APPENDIX 6: SITE PHOTOGRAPHS

### **La Carlota site**



Figure 1. Aerial View



Figure 2. Aerial View



Figure 3. Control Room



Figure 4. Landscape

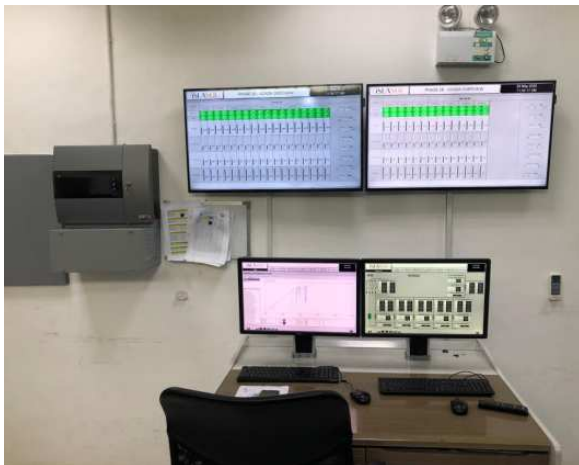


Figure 5. Control Room



Figure 6. Control Room

Manapla site



Figure 7. Aerial View



Figure 8. Landscape



Figure 9. Landscape



Figure 10. Control Building



Figure 11. Control Room



Figure 12. Control Room