



SOLAR AND WIND POWER PROJECT BY NTPC LIMITED



Document Prepared By (LGAI Technological Center, S.A. (Applus+ Certification))

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Summary:

Verification Purpose: The project “Solar and Wind Power Project by NTPC Limited” is undertaken by NTPC Limited. The main purpose of this project activity is to generate clean form of electricity through renewable solar and wind energy sources. The project activity involves installation of 50 MW solar project in Anantapur district of Andhra Pradesh, 260 MW solar project in Bhadla, Rajasthan, 250 MW solar project in Mandsaur district of Madhya Pradesh and a 50 MW wind power project in Gujarat state of India.

Over the 10 years of first crediting period, the project is estimated to replace the anthropogenic emissions of greenhouse gases (GHG’s) of approximately 940,891 tCO₂e per year, thereon displacing 974,716 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian grid, which is mainly dominated by thermal/fossil fuel-based power plant.

This is the 4th monitoring report under VCS covers activity from 01-January-2022 to 31-December-2022 (inclusive both days). During the Current Monitoring Period the project activity has supplied 987,916 MWh of electricity, and thus contributing to the GHG reductions of 953,635 tCO₂e.

VCS crediting period is of 10 years. The start date of crediting period is 10-August-2016 and 09-August-2026 is the end date of the crediting period and then for another period of 20 Years (10 years, renewable twice).

Verification Summary: LGAI Technological Center S.A. (Applus+ Certification) has performed the verification of the emission reductions reported for the project activity “Solar and Wind Power Project by NTPC Limited” (VCS Project ID: 1772) for the monitoring period 01-January-2022 to 31-December-2022 to review and determine the monitored reductions in GHG emissions that have occurred as a result of the project activity. These emission reductions are claimed as Verified Carbon Units (VCU) under the Verified Carbon Standard (VCS) version 4.5. The verification was performed on the basis of VCS Program Guide version 4.4 and VCS standard version 4.5 for the VCS projects, as well as criteria given to provide for consistent project operations, monitoring and reporting. The verification was conducted by means of document review, follow-up interviews and site inspections, and the resolution of outstanding issues.

A risk-based approach has been followed to perform this verification activity. In the course of verification, 02 Corrective Action requests (CAR), 03 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 VVB with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred to as Applus+ Certification) has been appointed by “NTPC Limited” to perform the verification of the “Solar and Wind Power Project by NTPC Limited” under VCS standard 4.5 and VCS Program guide version 4.4. 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 applied methodologies “ACM0002 (version 18.1) - Consolidated baseline methodology for grid-connected electricity generation from renewable sources”. The project's 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 program guide 4.4 and standard, version 4.5

- CDM Validation and Verification Standard for project activities, version 03.0
- CDM Project Standard for project activities, version 03.0
- VCS standard version 4.5
- VCS program guide version 4.4

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 carbon units (VCUs). 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 the

project activities, version 03.0, review against registered VCS-PD and Final Validation report, CDM Project Standard for project activities, version 03.0; and VCS program guide, version 4.4 and standard version 4.5.

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 on-site audit or document verifications. The entire documents checked/plant verification conducted to arrive at positive verification conclusions.

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1 INTRODUCTION

1.1 Objective

LGAI Technological Center S.A. (Hereinafter referred as Applus+ Certification) has been appointed by “NTPC Limited” to perform the 3rd periodic verification of the project entitled “Solar and Wind Power Project by NTPC Limited” under VCS standard version 4.5 and program guide version 4.4. 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 plan is assessed against applied methodology – ACM0002 (version 18.1) “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”.

The project’s 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 program guide, version 4.4 and standard version 4.5.

CDM Validation and Verification Standard for project activities, version 03.0

CDM Project Standard for project activities, version 03.0

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 estimated verified carbon units (VCUs).

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 VCS-PD and registered approved methodologies ACM0002 version 18.1. The MR is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board and VCS standard, version 4.5 and VCS Program guide version 4.4, including the approved baseline and monitoring methodologies applied. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0, CDM Project Standard for project activities, version 03.0, and VCS program guide, version 4.4 and standard version 4.5.

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. There are no material errors, overestimation of ER, omission or misstatement. The verification team has reviewed all the documents like commissioning certificate, Energy generation records 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. The entire documents checked/Power plant verification conducted to arrive at positive verification conclusions.

1.4 Summary Description of the Project

The project is undertaken by NTPC Limited. The main purpose of this project activity is to generate clean form of electricity through renewable solar and wind energy sources. The project activity involves installation of 50 MW solar project in Anantapur district of Andhra Pradesh, 260 MW solar project in Bhadla, Rajasthan, 250 MW solar project in Mandasaur district of Madhya Pradesh and a 50 MW wind power project in Gujarat state of India.

Over the 10 years of first crediting period, the project is estimated to replace the anthropogenic emissions of greenhouse gases (GHG's) of approximately 940,891 tCO₂e per year, thereon displacing 974,716 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian grid, which is mainly dominated by thermal/fossil fuel-based power plant.

During the Current Monitoring Period from 01-January-2022 to 31-December-2022 (First and last date included) the project activity has supplied 987,916 MWh of electricity, and thus contributing to the GHG reductions 953,635 tCO₂e.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification Process: The project assessment is based on the Clean Development Mechanism Validation and Verification Standard for project activities, version 03.0 and VCS standard 4.5.

and VCS program guide, version 4.4 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:

- A desk review of the monitoring Report against the registered PD;
- An on-site interview with project participant;
- 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. LGAI Technological Center, S.A. (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 verifying the identified criteria.

Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, LGAI Technological Center S.A. (Applus+ Certification) has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of LGAI Technological Center S.A. (Applus+ Certification). The composition of audit team shall be approved by the LGAI Technological Center S.A. (Applus+ Certification) ensuring that the required skills are covered by the team. The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

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

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

| Name | Role | SS Coverage | TA Coverage | Financial Aspect | Host Country Experience |
|----------------|-------|-------------|-------------|------------------|-------------------------|
| Pankaj Kumar | LA/TE | Yes | Yes | NA | Yes |
| Mr. Simon Shen | TR | Yes | Yes | NA | NA |

The complete list of CVs is included as Appendix 3 of this report.

2.2 Document Review

The Monitoring Report version 1 submitted by the PP was reviewed against the approved methodology, registered VCS PD, final validation report and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a crosscheck 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.

An on-site audit was conducted by LGAI Technological Center S.A. (Applus+ Certification) who performed interviews, 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 in the below sections

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 on 23-August-2023 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 final 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 project owners, the positive verification opinion and relevant documents are submitted to the VCS secretariat through the VCS web-platform.

2.3 Interviews

An on-site audit was conducted for the project activity on 16-June-2023. Technical details & monitoring arrangement verified through onsite photographs/name plates and calibration certificates shared by PP. All the documents were cross checked to ensure conservative estimation of emission reduction.

During the on-site audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date, recording, and monitoring of the data and the error accountability were discussed. To cross check the information provided by PP, various documents like technical specifications, commissioning certificates, plant records sheets, etc. were also verified. The names of the persons interviewed during on-site audit is given below;

| Organization/Designation | Name of Persons/Designation | Topics discussed | Team Member |
|---------------------------------------|-----------------------------|---|--------------|
| Kosher Climate Solutions (Consultant) | Mr. Narendra Kumar | Project activity implementation Operation, Calibration, O&M practices, ENERGY GENERATION RECORDS etc. LSC mechanism Mechanical maintenance | Pankaj Kumar |
| NTPC Limited | Mr. Bibek Kumar | Electrical maintenance Project description Invoicing practices Project activity implementation Operation, Calibration, O&M practices, ENERGY | |

| Organization/Designation | Name of Persons/Designation | Topics discussed | Team Member |
|--------------------------|-----------------------------|--|-------------|
| Farmer (AP) | Mr. S. Krishna | GENERATION RECORDS etc. LSC mechanism Mechanical maintenance Electrical maintenance Project description Invoicing practices MR, ER calculations etc. | |
| Villager (RJ) | Mr. N Rathore | | |
| Local Stakeholder (GJ) | Mr. Sorabh Patel | | |
| Local Stakeholder (MP) | Mr. Ajay Kumar | | |
| Local Stakeholder (GJ) | MR. Jatin Shah | | |

During the on-site audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date of equipment, the generation, recording, and monitoring of the data and the error accountability were discussed. Various documents like the energy generation record sheets, plant records, invoices, on-site Photographs includes key technical specifications of the major equipment provided to assessment team were verified to establish the current status and the implementation of the Project Activity.

The stakeholder interaction during remote audit is described below:

| | |
|---|--|
| Name of the stakeholder | Mr. Sorabh Patel <i>and</i> Mr. Ajay Kumar |
| Occupation | Employee/Villager |
| <p>VVB QUESTION: Did this solar project cause any pollution?</p> <p>Answer: No, the plant does not cause any pollution.</p> <p>VVB QUESTION: Did local villagers getting benefitted due to project activity?</p> <p>Answer: Yes, peoples are getting benefitted through CSR activities. Company providing various trainings to youths and also helping local schools for buildings and study material etc.</p> <p>VVB QUESTION: Did PP promised employment opportunity?</p> <p>Answer: Yes, employment is generated for local peoples. The landfill plant and electricity generation plant have provided various direct and indirect employment opportunities to the locals.</p> <p>VVB also like to conclude that during the interviews with PP, that local people were employed for security and operation related work. VVB also found that skilled local persons were also employed by the organization for the operation and maintenance of the power plant.</p> | |

| | |
|--|----------------|
| Name of the stakeholder | Mr. Jatin Shah |
| Occupation | Villager |
| <p>DOE questions: Did the power plant discharge any harmful pollutants?</p> <p>Answer: NO the plant does not discharge any harmful pollutants.</p> <p>DOE questions: What are other benefits from plant?</p> <p>Answer: Electricity availability increased, locals getting various jobs like technical & non-technical and CSR activities increased.</p> <p>DOE thus conclude that stakeholders are happy with the implementation of the project activity.</p> | |

2.4 Site Visits

| On-site Audit: 16-June-2023 | | | | |
|-----------------------------|--|--|--------------|--------------|
| No. | Activity performed on-site | 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> | <p>P Kothapalli and NP Kunta, Anantpur District, Andhra Pradesh</p> <p>Bhadla, Bap, Jodhpur District, Rajasthan</p> <p>Runija and Gujakhedi Village, Suvasara, Mandasaur District, Madhya Pradesh</p> <p>Amrapur, Kalasar, Ambaradi, Vanala, Kotda, Itariya, Rampara, Taiwadar, Kidi, Anlaka, Isswariya, Chanvad, Sukavada & Shivrajpur Village, Vinchiya, Jasdan, Gadhada, Babra & Lathi Tehsil, Rajkot, Amreli & Botad District, Gujarat</p> | 16-June-2023 | Pankaj Kumar |

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 which need to be clarified for LGAI Technological Center S.A. (Applus+ Certification)'s positive conclusion on the project design and Monitoring report. The Corrective Action Requests and Clarification Requests raised by LGAI Technological Center S.A. (Applus+ Certification) were resolved during communications between the Client and LGAI Technological Center S.A. (Applus+ Certification) to guarantee the transparency of the validation process, the concerns raised and responses given are summarized below in the appendix 2.

The final MR Version 02 submitted by project owners on 23-August-2023 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 CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

| Areas of verification findings | No. of CL | No. of CAR | No. of FAR |
|--|-----------|------------|------------|
| Project design document and Monitoring report | 00 | 01 | 00 |
| Description of project activity | 01 | 00 | 00 |
| Application of selected baseline and monitoring methodology and selected standardized baseline | | | |
| - Applicability of methodology and standardized baseline | 00 | 00 | 00 |
| - Deviation from methodology | 00 | 00 | 00 |
| - Clarification on applicability of methodology, tool and/or standardized baseline | 00 | 00 | 00 |
| Project boundary | 00 | 00 | 00 |
| Establishment and description of baseline scenario | 00 | 00 | 00 |
| Demonstration of additionality | 00 | 00 | 00 |
| Emission reductions | 00 | 00 | 00 |
| Calibration details | 01 | 00 | 00 |
| Monitoring plan | 00 | 00 | 00 |
| No Net harm assessment | 00 | 00 | 00 |
| Local stakeholder consultation | 00 | 01 | 00 |
| Others (please specify)- | 01 | 00 | 00 |
| - Regarding double counting Declaration | | | |
| - ER Sheet | | | |
| - Supporting documents | | | |
| Total | 03 | 02 | 00 |

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

2.5.1 Forward Action Requests

This is 3rd periodic verification of the project activity and no FAR was raised from previous verification or validation /and during this verification process.

2.6 Eligibility for Validation Activities

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

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project proponent hereby confirms that the project has not participated under other GHG Programs. The undertaking from PP has been submitted for no any double accounting for current monitoring period and project activity is not participated any other GHG program other than VCS.

Further, declaration for the same is checked and found correct by the assessment team. Also, assessment team checked the following registries to confirm the same. The details of the registries checked are as follows:

<https://www.recregistryindia.nic.in/>

<http://cdm.unfccc.int/>

<http://www.goldstandard.org/>

<https://www.globalcarboncouncil.com/>

<https://www.socialcarbon.org/>

Other forms of credit

Emission Trading Programs and Other Binding Limits: The PP has not applied this project in any Emission Trading Programs and other Binding Limit.

Other Forms of Environmental Credit: The PP has not applied this project in any other form of environmental credits.

3.2 Methodology Deviations

The project activity is no request for deviation applied during this monitoring period.

3.3 Project Description Deviations

Following deviation was requested and approved during the previous monitoring period (01-July-2018 to 30-September-2020).

During current monitoring period a deviation has been taken on account of delay in meter calibration. There is delay in calibration of energy meters in the year 2022 for Anantapur 50 MW Solar project and 250 MW solar project in Mandsaur and two months delay for 50 MW wind project in Gujarat. In year 2022, the meters are not calibrated as per the scheduled date. Therefore, PP has applied maximum error factor (0.2 %) in all export and import values taken for the months for which calibration is delayed (March to December) being conservative and for the months November and December 2022 for 50 MW Gujarat wind project respectively. It is to be noted that the DISCOM is the sole entity responsible for calibration of meters and the PP don't have any control over the same.

VVB team has checked the previous monitoring report and verification report for the monitoring period 01-July-2018 to 30-September-2020 and confirmed that the said deviation was approved.

Following deviations are requested during the current monitoring period (01-January-2022 to 31-December-2022)

VVB team has checked the registered PD and confirmed that at the time of registration and first verification (PDMR), the other entity was 'EKI Energy Services Limited' as a 'Project Consultant' and a Registry holder for this project. Later on, NTPC (PP) has requested VERRA to shift a project from Enking's Registry to NTPC Registry. For this monitoring period the 'Project Consultant' is 'Kosher Climate India Private Limited', hence MR has been updated accordingly in section 1.4. VVB has concluded that the correction has been done based on the commissioning certificates documents. These changes do not have any impact on methodology, additionality or the appropriateness of the baseline scenario as there is no change in the equipment, just the revision of commissioning dates as per the commissioning certificate was done. The project remains in compliance with the applied methodology and VCS requirements; hence, the deviation is acceptable to the assessment team.

3.4 Grouped Project

The project is not a grouped project thus this is not applicable.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the on-site inspection, it was concluded that the project activity involves the installation of Solar PV and wind project. The total installed capacity of the project is 610 MW of Solar PV plant and a 50 MW Wind project located at different states in India. The project is promoted by NTPC Limited. The Project activity is a new facility (Greenfield) and the electricity generated by the project and it exported to the Indian electricity grid. The project displaces an equivalent amount of electricity, which would have otherwise been generated by fossil fuel dominant electricity grid. The Project Proponent plans to avail themselves of the VCS benefits for the project. The net electricity supplied to grid is cross checked with the JMR and invoices/sales record to confirm the consistency and found ok.

The verification team has checked the entire monthly Energy generation records applicable for the monitoring period as per the project activity applied for verifications and found the monitoring parameter is monitored and recorded as per the monitoring plan in the registered PD. The net electricity supplied by project activity to grid is calculated by subtracting total electricity imported by project from grid from total electricity delivered by project to grid.

The project resulted in replacing anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 940,891 tCO₂e per year, thereon displacing 974,716 MWh/year amount of electricity from the grid over the 10 years crediting period.

The project during the Current Monitoring Period from 01-January-2022 to 31-December-2022 (First and last date included) has supplied 987,916 MWh of electricity, and thus contributing to the GHG reductions 953,635 tCO₂e.

During the current monitoring period it was observed that no unforeseen situation evolved which can impact the operation of the project activity. The same was verified through the shutdown summary sheet of the project activity submitted. Scheduled maintenance was carried out as per the instruction of the manufacturer and the same is acceptable to the assessment team. No major equipment has been replaced or exchanged during this period. There was no such event occurred that may impact the GHG emission reductions or removals and monitoring.

Project location is confirmed by the assessment team through interview with PP during on-site audit and assessment of monitoring report. Assessment team also checked the technical details of the project site containing latitude and longitude of the project site and confirmed that the details as mentioned in the registered PD-MR are correct.

Audit History:

| Audit Type | Period | Program | VVB Name | Number of years |
|-------------------|--|---------|-----------------------------------|-------------------------|
| Validation | 10-August-2016 to 30-June-2018 | VCS | LGAI TECHNOLOGICAL CENTER, S.A | 1 year 10 months |
| Verification | 01-July-2018 to 30-September-2020 | VCS | Earthood Services Private Limited | 2 year 3 months |
| Verification | 01-October-2020 to 31-December-2021 | VCS | LGAI TECHNOLOGICAL CENTER, S.A | 1 year 3 months |
| Verification | 01-January-2022 to 31-December-2022 (On going) | VCS | LGAI TECHNOLOGICAL CENTER, S.A | 1 year |
| Total | 10-/August08-/2016 to 31-/December12-/2022 | | | 6 years 6 months |
| Conclusion | VVB team has checked all the audit history data provided in section 1.1 of the MR, version 02. The same has been cross checked with the VERRA website and found that the provided data are appropriate and hence, accepted. | | | |

The project involves setting up of 560 MW of Solar power project and a 50 MW Wind power project. Total Capacity of this project activity is 610 MW.

The project was operational continuously during the monitoring period without any major breakdown. Assessment team checked the routine maintenance log book and confirmed that it does not have any impact on project design and monitoring procedures. No unforced error observed.

The longitude and latitude of the project location was verified from the commissioning certificates and the registered VCS PD.

1. Anantapur (50 MW)

| | |
|---|---|
| Name of Investor | NTPC Limited |
| Capacity (MW) | 50 MW |
| Village/Tehsil / Mandal / District(s) / State | P Kothapalli and NP Kunta, Anantpur District, |

| | |
|---------------|----------------|
| | Andhra Pradesh |
| Latitude (N) | 14°1'7.45" |
| Longitude (E) | 78°25'7.59" |

2. Bhadla (260 MW)

| | |
|---|--|
| Name of Investor | NTPC Limited |
| Capacity (MW) | 260 MW |
| Village/Tehsil / Mandal / District(s) / State | Bhadla, Bap, Jodhpur District, Rajasthan |
| Latitude (N) | 27°29'41.4456" |
| Longitude (E) | 71°54'54.7704" |

3. Mandsaur (250 MW)

| | |
|---|---|
| Name of Investor | NTPC Limited |
| Capacity (MW) | 250 MW |
| Village/Tehsil / Mandal / District(s) / State | Runija and Gujakhedi Village, Suvasara, Mandsaur District, Madhya Pradesh |
| Latitude (N) | 24°05'13.2288" |
| Longitude (E) | 75°47'41.1792" & |

4. Rojmal (50 MW)

| | |
|---|---|
| Name of Investor | NTPC Limited |
| Capacity (MW) | 50 MW |
| Village/Tehsil / Mandal / District(s) / State | Amrapur, Kalasar, Ambaradi, Vanala, Kotda, Itariya, Rampara, Taiwadar, Kidi, Anlaka, Isswariya, Chanvad, Sukavada & Shivrajpur Village, Vinchiya, Jasdan, Gadhada, Babra & Lathi Tehsil, Rajkot, Amreli & Botad District, Gujarat |

| S.NO | WTGs ID | Latitude (E) | Longitude (N) |
|------|----------|---------------|---------------|
| 1 | RJ6T-36 | 21° 92' 42.3" | 71° 38' 78.8" |
| 2 | RJAT-42 | 21° 93' 96.3" | 71° 37' 76.4" |
| 3 | RJAT-44 | 21° 93' 54" | 71° 38' 09.3" |
| 4 | RJAT-45 | 21° 92' 82.3" | 71° 37' 77" |
| 5 | RJPT-142 | 21° 91' 06.9" | 71° 43' 52.4" |
| 6 | RJAT-11 | 22° 01' 42.6" | 71° 29' 94.3" |
| 7 | RJAT-15 | 22° 03' 62.1" | 71° 30' 68.8" |
| 8 | RJAT-16 | 22° 02' 42.4" | 71° 30' 71.8" |
| 9 | RJ8T-135 | 21° 88' 51.6" | 71° 40' 73.2" |
| 10 | RJ9T-110 | 22° 17' 88.9" | 71° 34' 04.3" |
| 11 | RJPT-12 | 21° 99' 23.6" | 71° 34' 03.2" |
| 12 | RJPT-28 | 22° 02' 95" | 71° 40' 92.7" |
| 13 | RJPT-29 | 22° 02' 44.9" | 71° 39' 29.8" |
| 14 | RJPT-188 | 21° 92' 84.7" | 71° 24' 80.4" |
| 15 | RJPT-196 | 21° 94' 73.6" | 71° 25' 20.2" |
| 16 | RJPT-197 | 21° 94' 14" | 71° 25' 65.3" |
| 17 | RJPT-198 | 21° 95' 20.9" | 71° 25' 39.7" |
| 18 | RJPT-199 | 21° 95' 60.7" | 71° 25' 91.5" |
| 19 | RJPT-200 | 21° 95' 87.3" | 71° 25' 96" |
| 20 | RJPT-140 | 21° 83' 74.5" | 71° 39' 26.4" |
| 21 | RJPT-141 | 21° 83' 69.6" | 71° 40' 88.8" |
| 22 | RJAT-43 | 21° 93' 89.4" | 71° 38' 10.4" |
| 23 | RJPT-125 | 21° 96' 44.4" | 71° 31' 46.1" |
| 24 | RJPT-119 | 21° 93' 04.8" | 71° 27' 28.7" |
| 25 | RJ8T-022 | 22° 00' 45.5" | 71° 30' 70.2" |

The technical specification of 50 MW solar plant interconnection with grid on 10-August-2016 by NTPC Limited at Anantapur are as follows:

| Sl. No. | Technical details of the equipment | Description |
|---------|--|--|
| 1 | Technology Used | Solar PV technology |
| 2 | Module capacity and number of the modules of each capacity | Total no. of modules - 932596 Module Ratings -240, 243, 245, 246, 249, 250, 252, 255, 258, 290, 295, 300, 305, 310, 315 |

| | | |
|---|---|---|
| 3 | Number of Inverters and its capacity | 100 Inverters of 1 MW capacity each (ABB make), 120 Inverters of 1.25 MW capacity each (Hitachi Make). |
| 4 | Number of Transformers and its capacity | 25 Nos of 4 MVA Inverter Transformers (Raychem/Sudhir). 60 Nos of 2.5 MVA Inverter Transformers (Kirloskar/Raychem). |

The technical specification of 260 MW solar plant interconnection with grid on 08-March-2017 by NTPC Limited at Bhadla, Rajasthan are as follows:

| Sl. No. | Technical details of the equipment | Description |
|---------|--|--|
| 1 | Technology Used | Solar PV technology |
| 2 | Module capacity and number of the modules of each capacity | Total no. of modules- 842220 Module Ratings- 281, 288, 291, 294, 295, 297, 297.5, 300, 302.5, 303, 305, 306, 307.5, 309, 310, 312, 312.5, 315, 317.5, 320, 322.5 |
| 3 | Number of Inverters and its capacity | 65 Inverters of 1 MW capacity each (ABB make), 156 Inverters of 1.25 MW capacity each (Hitachi Make). |
| 4 | Number of Transformers and its capacity | 4 Nos of 63 MVA, 132/33 kV 5 Nos of 2 MVA Inverter Transformers. 52 Nos of 2.5 MVA Inverter Transformers 14 Nos of 4 MVA Inverter Transformers 13 Nos of 5 MVA Inverter Transformers |

The technical specification of 250 MW solar plant interconnection with grid on 06-June-2017 by NTPC Limited at Mandsaur, Madhya Pradesh are as follows:

| Sl. No. | Technical details of the equipment | Description |
|---------|--|--|
| 1 | Technology Used | Solar PV technology |
| 2 | Module capacity and number of the modules of each capacity | Total no. of modules- 821340 Module Ratings 285, 288, 290, 291, 294, 295, 297, 297.5, 300, 302.5, 303, 305, 306, 307.5, 309, 310, 312.5, 315, 317.5, 318, 320, 322.5 |
| 3 | Number of Inverters and its capacity | 184 Inverters of 1.25 MW capacity each (Hitachi Make), 465 Inverters of 43 KW capacity each (Huawei Make) |
| 4 | Number of Transformers and its capacity | 80 Nos of 2.5 MVA Inverter Transformers (Pete Hammond). 10 Nos of 2 MVA Inverter Transformers (Pete Hammond). 12 Nos of 2.5 MVA Inverter Transformers. (Kirloskar) |

The technical specification¹ for 50 MW Wind project at Rojmal, Gujarat is given below.

| | |
|-------------------------|--|
| WTG Make and Model No. | INOX WIND DF/2000/100 |
| Generator Type & Rating | Doubly-Fed Induction generator, 2000kW |
| WTG configuration | 25 X 2000kW |

¹ Source: Technical Specification Document

| | |
|---------------------|--|
| Rotor Diameter | 100m |
| Hub Height | 92 |
| Tower Type | Conical Tubular Steel |
| Cut-in-wind speed | 3.0 m/s |
| Rated wind speed | 11.0 m/s |
| Cut-out wind speed | 20.0 m/s |
| Survival wind speed | 52.5 m/s |
| Operational Mode | Variable Speed |
| Power Regulation | Electrical Blade Pitch control, variable speed inverters, power back up with ultra-capacitor |

The project activity has been in operation continuously since its commissioning. There have been no emergencies during the monitoring system. There are no events or situations that occurred during the monitoring period which may impact the applicability of the methodology.

Assessment team checked onsite and confirms that the details of the project proponent areas below:

| | |
|--------------------------|--|
| Organization name | NTPC Limited |
| Contact person | Mr. N.S.P Singh |
| Title | AGM - RE |
| Address | NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi - 110003, India |
| Telephone | +91-120-2410333 |
| Email | kapilmeena@ntpc.co.in |

Other entities involved in this project is:

| | |
|----------------------------|--|
| Organization name | Kosher Climate India Private Limited |
| Role in the project | Consultant /Bundling Agency |
| Contact person | Vamsi Krishna |
| Title | Global Business Head |
| Address | Zee Plaza, No.1678, Ground Floor, 27th Main Road, Sector 2, HSR Layout, Bengaluru, Karnataka 560102 |
| Telephone | +91 80 49931177 |
| Email | vamsi@kosherclimate.com , narendra@kosherclimate.com |

Ownership

The Project is owned by NTPC Limited, which is the project participant of the Project. The VVB team has demonstrated the ownership through Consent to Operate of Rajasthan State Pollution Control Board.

Project start date

Start date of the project activity is the earliest date of interconnection with the grid i.e. 10-August- 2016. This is the date of commissioning of 50 MW solar PV project activity by NTPC Limited. The details are below:

| Capacity in MW | COD | State |
|----------------|------------|----------------|
| 50 MW | 10/08/2016 | Andhra Pradesh |
| 260 MW | 08/02/2017 | Rajasthan |
| 250 MW | 31/05/2017 | Madhya Pradesh |
| 50 MW | 10/11/2017 | Gujarat |

Assessment team checked the commissioning details from the commissioning certificate provided by the project proponent.

Project crediting period

Crediting Period Start date: 10-August-2016

Crediting Period End date: 09-August-2026

The project activity adopts renewable crediting period of 10 years period which can be renewed for maximum 2 times (Start and end dates included)

Participation under other GHG programs

Assessment team has checked that the Project is not registered under any other GHG programs and neither has participated in any other GHG programs.

The Project is not rejected by other GHG programs. A declaration for the same is checked and found correct by the assessment team. Also, assessment team checked the following registries to confirm the same. The details of the registries checked are as follows:

- <https://www.recregistryindia.nic.in/>
- <http://cdm.unfccc.int/>
- <http://www.goldstandard.org/>
- <https://www.globalcarboncouncil.com/>
- <https://www.socialcarbon.org/>

The Project does not intend to generate any other form of GHG-related environmental credit for GHG emission reductions or removals claimed under the VCS Program.

Renewable energy certificates are available for trading in the host country. However, the same is not availed by the project participant. The undertaking regarding the same is submitted by PP which is acceptable to the assessment team and assessment team also checked the REC website (<https://recregistryindia.nic.in/>) and found the declaration to be correct.

Other forms of credit and supply chain (Scope 3) emissions

Assessment team confirms that the Net GHG emission reductions or removals generated by the Project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions in any Emission Trading program or other binding limits. Audit team checked the REC Mechanism database of India and found that the project activity is not accredited registered² under REC mechanism. Further, Declaration in effect of the same has been submitted by project proponent to audit team and found to be correct. Thus, it is concluded that the project activity not involved on other Emissions trading programs and other binding limits.

Commercially Sensitive Information

No commercially sensitive information has been excluded from the public version of the project description. The details are presented transparently to the assessment team for analysis which lead to positive conclusion for this verification.

Contribution to sustainable development:

Ministry of Environment, Forests and Climate Change, GOI, has stipulated economic, social, environment and technological well-being as the four indicators of sustainable development. The project contributes to sustainable development using the following ways.

Social well-being: This project helped in generating employment opportunities during the construction and operation phases. The project activity is lead to development in infrastructure in the region like development of roads and may promote business with improved power generation.

Economic well-being: The project is a clean technology investment in the region, which, have been taken place in the absence of the VCS benefits the project activity also help to reduce the demand supply gap in the state.

The project activity generates power using zero emissions solar energy-based power generation, which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.

Technological well-being: The successful operation of project activity led to promotion of solar power generation and encouraged other entrepreneurs to participate in similar projects.

Environmental well-being: Solar being a renewable source of energy, it reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its zero emission the Project, activity also helps in avoiding significant amount of GHG emissions.

² https://www.recregistryindia.nic.in/index.php/publics/accredited_regens

Finding: CAR 01, 02 and CL 01, 02 & 03 were raised and successfully closed. Please refer appendix 3 for more information.

4.2 Safeguards

4.2.1 No Net Harm

During on-site inspection, VVB team found that the project activity does not involve any major construction activity. It primarily requires the installation of the solar PV panels/WTGs interfacing the generators with the State Electricity Board by setting up HT transmission lines and installation of other accessories.

VVB has also checked the report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects³” prepared by MNRE dated September 2013. This report clearly mentioned that solar PV project activity operations and wind farms operations do not result in direct air pollution, noise pollution. Please refer to the below web link for the same.

VVB has also checked and found that in solar and wind, during operation there is no significant waste generation happens. Also, in current monitoring period no hazardous waste (faulty PV module and WTG) has been identified. In case of faulty module or WTG, vendor will collect it and will dispose/recycle as per national guideline.

Thus, there are no significant impacts due to implementation of project activity on air, water, soil quality and ambience are envisaged due to the project activity.

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration. For on-going stakeholder’s communication, PP have maintained grievance register at the site office. All the stakeholders are happy with the implementation and operation of the project activity and no negative comments envisaged for the project activity. Complaint/suggestion/feedback/Grievance register is maintained at site as a part of ongoing communication with stakeholders in line with clause 3.18.9 of VCS Standard, ver. 4.4 and appropriate actions taken time to time by PP.

Assessment team checked the grievance register provided by PP and found that local stakeholders can anytime lodge their grievances if any in the register over the operational life time of the project. During current monitoring period, CAR 02 was raised for the missing of redressal of stakeholder grievances in MR, the grievances were resolved successfully by PP and is closed after mentioning it in the MR. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate.

4.3 AFOLU-Specific Safeguards

Not applicable to this as this is not an AFOLU project activity.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

| Means of verification | The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the MR. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the VCS PD and MR. | | | | | | | | |
|-----------------------|---|------------------|--------------|----|--------|----|--------|----|--------|
| Findings | CAR#05 has been raised and resolved successfully. | | | | | | | | |
| Conclusion | <p>The verification team has reviewed the emission reduction (ER) spread sheet and checked all the formulae and verified them to be correct and in line with the monitoring plan of the registered PDD and the applied monitoring methodology. It is confirmed that all the ex-ante parameters have been correctly used in the emission reduction calculation.</p> <p>Baseline Emission</p> <p>The formulae used to calculate the baseline emissions are:</p> $BE_y = EG_{\text{facility, } y} \times EF_{\text{grid, CM, } y}$ <p>Where,</p> <p>BE_y = Baseline Emissions in year y; tCO2</p> <p>$EG_{\text{facility, } y}$ = Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)</p> <p>$EF_{\text{grid, CM, } y}$ = CO2 emission factor of the grid in year y; tCO2/MWh</p> <p>The GEF is fixed ex-ante in the PD as given below:</p> <table border="1"> <thead> <tr> <th><i>Parameter</i></th> <th><i>Value</i></th> </tr> </thead> <tbody> <tr> <td>OM</td> <td>0.9843</td> </tr> <tr> <td>BM</td> <td>0.9083</td> </tr> <tr> <td>CM</td> <td>0.9653</td> </tr> </tbody> </table> | <i>Parameter</i> | <i>Value</i> | OM | 0.9843 | BM | 0.9083 | CM | 0.9653 |
| <i>Parameter</i> | <i>Value</i> | | | | | | | | |
| OM | 0.9843 | | | | | | | | |
| BM | 0.9083 | | | | | | | | |
| CM | 0.9653 | | | | | | | | |

Project wise baseline emission reduction for the current monitoring period are as follows:

| Net Generation (MWh) | | | Emission Reduction(tCO ₂ e) |
|----------------------|-----------|----------------|--|
| Sr.no | Site | MWh | tCO ₂ e |
| 1 | Anantapur | 74,822 | 72,226 |
| 2 | Bhadla | 431,145 | 416,184 |
| 3 | Mandsaur | 381,808 | 368,559 |
| 4 | Rojmal | 100,141 | 96,666 |
| Total | | 987,916 | 953,635 (Round down values) |

Thus,

$$\begin{aligned}
 BE_y &= 987,916 * 0.9653 \\
 &= 953,635 \text{ tCO}_2\text{e (Round down values)}
 \end{aligned}$$

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

Project emissions:

Not Applicable, since emissions from the project activity is zero as per ACM0002 methodology. Hence,

$$PE_y = 0 \text{ tCO}_2\text{e}$$

Leakage Emission

Energy generating equipment is not transferred from another activity therefore leakage is not considered.

$$Ly = 0 \text{ tCO}_2\text{e}$$

Further,

$$ER_y = BE_y - PE_y - LE_y$$

Where:

ER_y: Emission reductions in year y (tCO₂e/yr)

BE_y: Baseline emissions in year y (tCO₂e/yr)

PE_y: Project emissions in year y (tCO₂e/yr)

So, the emission reductions is equal to baseline emissions

$$ER_y = BE_y = 953,635 \text{ tCO}_2\text{e (round down value)}$$

Hence, net GHG reduction and removals.

| Year | Baseline emissions or removals (tCO ₂ e) | Project emissions or removals (tCO ₂ e) | Leakage emissions (tCO ₂ e) | Net GHG emission reductions or removals (tCO ₂ e) |
|--|---|--|--|--|
| (01-January-2022 to 31-December-2022) 2022 | 953,635 | 0 | 0 | 953,635 |
| Total | 953,635 | 0 | 0 | 953,635 (round down value) |

During the current monitoring period, actual emission reductions achieved are 953,635 tCO₂e whereas estimated emission reductions was 940,891 tCO₂e. The achieved GHG emission is 1.34% higher as compared to the estimated values in the registered VCS PD. The generation of electricity depends upon many other climatic conditions, and the availability of sunlight/Wind Speed is not within the control of the project participant. Considering, this; it was found acceptable to the assessment team.

VVB confirmed that GHG reductions and removals have been quantified correctly and in line with monitoring procedure in VCS PD and applied methodology.

Data and Parameters Available at Validation

| | |
|-----------------------|---|
| Means of verification | The assessment team checked the registered PDD to confirm the data and parameter available at validation mentioned in the current monitoring report. Assessment team also interviewed site personnel whether monitoring has been to check further regarding the values used for emission reduction calculation. |
|-----------------------|---|

| | |
|------------|--|
| Findings | No findings has been raised. |
| Conclusion | <p>$EF_{grid, OM, y}$, $EF_{grid, BM, y}$, $EF_{grid, CM, y}$ are mentioned as ex-ante fixed parameter in the monitoring report. Assessment team checked the values, source of data, choice of data, purpose of the data mentioned in the MR from the registered PDD and confirms that the similar approach was considered for the current monitoring period also.</p> <p>The values of $EF_{grid, OM, y}$, $EF_{grid, BM, y}$, $EF_{grid, CM, y}$ were considered from the “CO₂ Baseline Database for Indian Power Sector” version 12, published by the Central Electricity Authority, Ministry of Power, Government of India. The default value as mentioned in the registered PDD and MR are same. The value of combined margin in India is being given by CEA and thus assessment team conclude that the value is correct and appropriate. The default value in turn is used for baseline calculation as per the formula given in the registered PDD for the current monitoring period.</p> <ul style="list-style-type: none"> • $EF_{grid, OM, y} = 0.9843$ tCO₂e/MWh (Confirmed and checked as per the registered PDD) • $EF_{grid, BM, y} = 0.9083$ tCO₂e/MWh (Confirmed and checked as per the registered PDD) • $EF_{grid, CM, y} = 0.9653$ tCO₂e/MWh (Confirmed and checked as per the registered PDD) |

Data and Parameter Monitored

| | |
|-----------------------|--|
| Means of verification | The assessment team checked the registered PDD to confirm the ex-post parameter mentioned in the current monitoring report. Assessment team also interviewed the personnel onsite to check further regarding the ex-post parameter monitoring and confirms that the same is in line with the registered PDD. ACM0002 (Version 18.1) which was the applied methodology during the registration of the project is also checked to ensure that monitoring parameter as mentioned in the registered PDD and current MR are in compliance with the methodology. |
| Findings | No findings has been raised. |
| Conclusion | <p>As per the approved monitoring plan, following parameters are monitored by the PP:</p> <p>$EG_{PJ, y}$: Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh).</p> <p>The difference of final value of export and import is used for monthly values of net electricity supplied to the grid by the project activity and same value is considered for ER calculations.</p> <p>Net electricity supplied by the Project activity is 987,916 MWh which was checked based on the Joint Meter Reading (JMR) and has been cross checked with the invoices provided by the PP and accepted.</p> |

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

| | |
|-----------------------|---|
| Means of verification | The verification team checked the shutdown/break down log for the monitoring period. During the verification of on-site audit, the energy meters are also checked. The Calibration details of the monitoring meters are also checked with calibration certificates. |
| Findings | CL#02 has been raised and resolved successfully. |
| Conclusion | <ul style="list-style-type: none"> • Records were submitted by the project proponent as evidences to determine emission reduction; • The records, data and information provided were found valid for the current verification period. The documents were verified during on-site assessment and when possible, were checked directly from its source; • Interviews were performed during on-site audit with involved personnel and PP's representatives; • The GHG emission reduction calculations were check step by step with PP's representatives; - the quality of evidences was found of adequate level by the verification team to ensure an accurate quantification of the emission reductions. <p>Calibration of all the meters is done as per the registered VCS PD. Assessment team has checked the calibration certificate and found that there is delay in calibration of energy meters, therefore Conservative measures error factor applied for the delayed calibration.</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 on-site audit.</p> <p>On-site audit and interview with site personnel also confirms that the operational and organizational chart as mentioned in registered VCS PD is as per the site practice and thus assessment team confirms that the details are correct. The shutdown / break down reports are checked and found that the plant undergone scheduled maintenance and break down.</p> <p>Assessment team checked the routine maintenance log book and confirmed that it does not have any impact on project design and monitoring procedures. No unforced error observed. Assessment team confirmed that data/ information used for determining GHG reductions and removals were sufficient in quantity and of appropriate quality. Calibration certificates of meters/ QA/QC procedure checked and found to be appropriate.</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 | |
| 1. | Not applicable | Not applicable | Not applicable | Not applicable |

5 VERIFICATION OPINION

Applus+ Certification has been engaged by “NTPC Limited” to perform the verification of the project “Solar and Wind Power Project by NTPC Limited”. The management of the project participant/owner is responsible for the preparation of the GHG emissions data and the reported/estimated GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the VCS PD and MR and the approved methodologies.

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 and VCS Standard version 4.5. 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. The verification 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 VCS PD
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan
- 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 during the verification.
- No limitation observed for the present verification;

Verification period: 01-January-2022 to 31-December-2022 (Inclusive of both days)

Verified GHG emission reductions and removals in the above verification period, broken down by calendar year:

| Year | Baseline emissions or removals (tCO ₂ e) | Project emissions or removals (tCO ₂ e) | Leakage emissions (tCO ₂ e) | Net GHG emission reductions or removals (tCO ₂ e) |
|---------------------------------------|---|--|--|--|
| 01-January 2022 to 31 - December 2022 | 953,635 | 0 | 0 | 953,635 |
| Total | 953,635 | 0 | 0 | 953,635 (round down value) |

Estimated ex-ante GHG emission reductions and removals

| <i>Year</i> | <i>Ex-ante emissions reductions /removals</i> | <i>Achieved emissions reductions /removals</i> | <i>Percent difference</i> | <i>Justification for the difference</i> |
|--|---|--|---------------------------|--|
| <i>01-January-2022-- 31-December-2022)</i> | 940,891 | 953,635 | 1.34% | The achieved GHG emission is 1.34% higher as compared to the estimated values in the registered VCS PD. The generation of electricity depends upon many other climatic conditions, and the availability of sunlight/Wind Speed is not within the control of the project participant. However, increased ER is not affecting the additionality. |
| <i>Total</i> | 940,891 | 953,635 | 1.34% | |

APPENDIX 1: Documents Reviewed During Verification

| | | | | |
|---|----|--|---|---------------------|
| 1 | NA | Commissioning Certificate | Commissioning of the Solar and wind power project | Project Participant |
| 2 | NA | Technical specifications | Technical specifications of solar PV and wind Power project | Project Participant |
| 3 | NA | Registered VCS PD and validation report | https://registry.verra.org/app/projectDetail/VCS/1772 | VERRA |
| 4 | NA | 1st monitoring report and verification report for the same | https://registry.verra.org/app/projectDetail/VCS/1772 | VERRA |
| | | 2 nd monitoring report and verification report for the same | https://registry.verra.org/app/projectDetail/VCS/1772 | VERRA |
| | | 3 rd monitoring report and verification report for the same | https://registry.verra.org/app/projectDetail/VCS/1772 | |

| | | | | |
|---|----|--|---------------------------------------|---------------------|
| 5 | NA | <p>Initial Monitoring report</p> <p>Final Monitoring report, version 04</p> | <p>30-May-2023</p> <p>17-May-2024</p> | Project Participant |
| 6 | NA | <p>Tools/ guidelines used in the project activity</p> <ul style="list-style-type: none"> • Tool to calculate the emission factor for an electricity system (06.0 (EB 97, Annex 07)) • Tool for the demonstration and assessment of additionally- - Version 07.0.0 (EB 70, Annex 08) • VCS Standard, version 4.5 • VCS Project guide, version 4.4 | UNFCCC CDM web site VERRA website | UNFCCC and VERRA |
| 7 | NA | Calibration details of the project activity | Calibration certificates | Project Participant |

| | | | | |
|----|----|--------------------------------|---------------------|---------------------|
| | | undergoing verification | | |
| 8 | NA | Joint Meter reading | Plant log book | Project Participant |
| 9 | NA | Invoices | Invoice details | Project Participant |
| 10 | NA | No Double Counting Declaration | Declaration from PP | Project Participant |
| 11 | NA | Grievance Register | Grievance Register | Project Participant |
| 12 | NA | Final ER sheet, V4 | 17-May-2024 | Project Participant |

APPENDIX 2: Corrective Action Requests, Clarification Requests and Forward Action Requests (CAR/CL/FAR)

Table 1. CLs from this Project Verification

| | | | | |
|---|----|-------------|-----|-------------------------|
| CL ID | 01 | Section no. | 4.1 | Date: 17- July-2023 |
| Description of CL | | | | |
| PP is requested to submit an undertaking for no double accounting for current monitoring period and for project activity is participated in other GHG program other than VCS. | | | | |
| Project participant response | | | | Date: 14-August-2023 |
| <i>The project activity is not submitted in any other GHG program other than VCS and the undertaking is provided.</i> | | | | |
| Documentation provided by project participant | | | | |
| <i>Declaration by Project owner</i> | | | | |
| DOE assessment | | | | Date: 20-September-2023 |
| PP has now submitted the undertaking dated 16-August-2023 for no double accounting for current monitoring period and for project activity is participated in other GHG program other than VCS. VVB has checked and confirmed. Hence, CL#01is closed. | | | | |

| | | | | |
|--------------------------|----|-------------|-----|---------------------|
| CL ID | 02 | Section no. | 4.1 | Date: 17- July-2023 |
| Description of CL | | | | |

1. During assessment, VVB observed that PP has submitted the calibration certificate of 50 MW wind project in Gujarat where the calibration dates were found relevant, appropriate and consistent with the monitoring report. However, PP to submit the calibration certificates of other solar sites.
2. Under section 3.2.2 of the submitted MR version 1, PP has mentioned that “During current monitoring period a deviation has been taken on account of delay in meter calibration. There is delay in calibration of energy meters in the year 2022 for Anantapur 50 MW Solar and 250 MW Mandsaur and two months delay for 50 MW wind project Gujarat. In year 2022, the meters are not calibrated as per the scheduled date. Therefore, PP has applied maximum error factor (0.2 %) in all export and import values taken for the months for calibration is delayed (March to December) being conservative and for the months November and December 2022 for 50 MW Gujarat wind project respectively”. However, PP has not applied the error factor value in the ER for the solar project sites. The value obtained after applying the error factor value was found appropriate for 50 MW wind project. Also, PP is requested to submit the copies of calibration certificates covering complete monitoring period to the assessment team. Clarification sought.
3. During assessment, VVB observed that the JMR for 50 MW solar project in Anantapur, Andhra Pradesh is missing. PP shall submit the same.
4. PP to submit the technical details of the project. Clarification sought.

| | |
|---|--------------------------------|
| Project participant response | Date: 14-August-2023 |
| <ol style="list-style-type: none"> 1- <i>The calibration is not within the control of project owner for all the project activities and it is under the control of the state government authority or DISCOM. The corresponding calibration error has been applied for the period where there is delay in the calibration of energy meters.</i> 2- <i>The calibration due date for 50 MW Solar project in Andhra Pradesh is 12/03/2021 and thus appropriate correction factor of 0.2% was applied wherever applicable for the calculation of emission reductions. The calibration due date for 260 MW solar project is 30/11/2023. The calibration due date for 250MW solar project is 23/03/2022 and thus appropriate correction factor of 0.2% was applied for the calculation of emission reductions for the period where there is delay in calibration, the details of calibration are provided in the JMR reports. For 50 MW wind project in Gujarat, the calibration due date is 21/11/2022 and thus calibration error is applied to the remaining period for which there is delay.</i> 3- <i>The total capacity of the project activity is 250MW in which 50MW capacity is registered in VCS and the remaining 200MW is submitted for registration in GCC. The records of electricity generated by the project activity will be uploaded on the SRPC (Soth Regional Power Committee) website and the data will be released by SRPC for every month for the entire capacity of 250MW. The electricity generated from the 50MW capacity for the period 01/01/2022 to 31/12/2022 has been procured from the SCADA.</i> 4- <i>The technical details of all the project activities have been submitted.</i> | |
| Documentation provided by project participant | |
| <i>Technical specifications of all the project activities</i> | |
| DOE assessment | Date: 20-September-2023 |

1. VVB has checked and confirmed that PP has applied the calibration error for the delay period of the calibration of energy meters. Hence, accepted.
2. The explanation given by the PP has been checked and found appropriate.
3. PP has checked the SRPC website and verified. Hence, Ok.
4. PP has provided the technical details of all the project activities. The same has been verified with the details given in MR and found correct.

Hence, CL#02 is closed.

| | | | | |
|---|----|--------------------|-----|--------------------------------|
| CL ID | 03 | Section no. | 4.1 | Date: 17- July-2023 |
| Description of CL | | | | |
| <p>PP has submitted the commissioning certificates. However, during the DOE assessment, VVB observed that the commissioning dates for 250 MW solar at Mandsaur, MP and 260 MW solar at Bhadla, Rajasthan is not consistent with the submitted commissioning certificate. Also, for 260 MW solar Bhadla, Rajasthan, VVB noticed that the project capacity has been divided into 4 blocks of solar plants of 65 MW capacity and PP has submitted the part commissioning certificates which is not consistent with the date mentioned in the submitted MR version 1. Also, PP to clarify if the 260 MW solar plant is divided into 4 blocks with different commissioning dates, why the same has not been mentioned in the MR. PP to clarify the same.</p> | | | | |
| Project participant response | | | | Date: 14-August-2023 |
| <p><i>The commissioning dates have been updated in the monitoring report in line with the commissioning certificates. For 260 MW project, it is divided into 4 blocks and data for all the 4 blocks is updated in the MR.</i></p> | | | | |
| Documentation provided by project participant | | | | |
| <p><i>Updated Monitoring report</i></p> | | | | |
| DOE assessment | | | | Date: 20-September-2023 |
| <p>PP has updated the commissioning dates in the revised MR. It has been also observed that PP has updated the COD of the 260MW which is divided in 4 blocks. VVB has checked with the commissioning certificate provided by the PP and found correct. Hence, CL#03 is closed.</p> | | | | |

Table 2. CARs from this Project Verification

| | | | | |
|--|----|--------------------|-----|--------------------------------|
| CAR ID | 01 | Section no. | 4.1 | Date: 17- July-2023 |
| Description of CAR | | | | |
| During the assessment of the monitoring report version 1 for the 4 th verification, following inconsistencies were observed: <ol style="list-style-type: none"> 1. Date format throughout the Monitoring report is not in line with the VCS Template Version 4.2, Thus, corrective action sought. 2. Section 1.1 is not inline with the MR template guidelines V4.2. Thus, Corrective action sought. 3. Description of the location shall not be more than a page. PP to update the section. Hence, corrective action request sought. 4. The weblink mentioned in section 1.10 is not accessible to the VVB. Corrective action request sought. 5. PP shall review and revise the values mentioned Under section 1.11 (table 1) of the MR V 01 as the values are found inconsistent. Moreover, PP is requested to submit the supporting for mentioned SDG indicator. Corrective action sought. 6. Section 1.11 is not as per the latest VCS MR template guidelines V4.2. Corrective action sought. | | | | |
| Project participant response | | | | Date: 14-August-2023 |
| <ol style="list-style-type: none"> 1- Date format throughout the Monitoring report is modified according to the VCS Template Version 4.2. 2- <i>The corresponding changes are made in line with the VCS MR Template Version 4.2</i> 3- <i>The location details are updated and additional details are provided in Appendix 2.</i> 4- <i>The weblink has been updated and it is accessible now.</i> 5- <i>The values have been updated and the supporting documents have been submitted</i> 6- <i>Section 1.11 has been updated in line with the MR template guidelines version 4.2.</i> | | | | |
| Documentation provided by project participant | | | | |
| Updated Monitoring report | | | | |
| DOE assessment | | | | Date: 20-September-2023 |
| <ol style="list-style-type: none"> 1. PP has now updated the date version as per template version 4.2 in dd-Month-yyyy format throughout the MR. Hence, accepted. 2. PP has now updated the section 1.1 of the MR as per VCS MR template version 4.2. Hence, accepted. 3. VVB has checked and confirmed that PP has updated the location details and made it in one page in the revised MR. Hence, okay. 4. The updated weblink has been checked by the VVB in section 1.10 of the revised MR and found it is working. Hence, okay. 5. PP has now updated and revised the values against each SDG indicator. The same has been checked with the documents provided by the PP. Hence, acceptable. 6. PP has revised the section 1.11 of the MR with the template. Hence, okay. | | | | |
| CAR#01 is closed now. | | | | |

| | | | | |
|--|----|--------------------|-------|--------------------------------|
| CAR ID | 02 | Section no. | 4.2.2 | Date: 17-July-2023 |
| Description of CAR | | | | |
| PP to submit records for ongoing local stakeholder consultation including grievance register etc. to assessment team. | | | | |
| Project participant response | | | | Date: 14-August-2023 |
| <p><i>The local stakeholder consultation has been conducted during the validation process of the project. The evidence for maintaining grievance register at the project site has been submitted. There are no comments received from the stakeholders in the current monitoring period.</i></p> | | | | |
| Documentation provided by project participant | | | | |
| Grievance register | | | | |
| DOE assessment | | | | Date: 20-September-2023 |
| <p>PP has conducted the stakeholder consultation during validation process, hence no LSC required for the current monitoring period. PP has also provided the grievance register which has been verified and found it is acceptable. Hence, CAR#02 is closed.</p> | | | | |

APPENDIX 3: Competence of Team Member and Technical Reviewer

Mr. Pankaj Kumar

Mr. Pankaj Kumar has done M. Sc in Environment Management from Forest Research Institute, Dehradun and B. Sc. (Hons.) in Environment & Water Management from Magadh University, Bihar, India. He has also done Post Graduate Diploma in Environmental Law from NLSIU, Bangalore.

He has more than 12 years of working experience in GHG Assessments and has participated during his career in Agencies and DOEs like MITCON, Agrinergy, Carbon Check and is empanelled with Applus+ Certification since 2015 for the performance of CDM/VCS/GS project assessments.

He has extensive experience in the Renewable, Waste Management and Energy Demand Scopes of UNFCCC CDM and has done more than 100 Validations and Verifications of PAs and PoAs as Lead Auditor, Technical Expert and Technical Reviewer, mainly in Asia, Africa, USA, Asia Pacific and Americas under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil.

He is an experienced, qualified and result oriented Environment and climate change professional having 16 yrs. of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Climate finance, adaptation planning, capacity building, validation and verification of GHG project. He can also provide technical support for environmental investigative, remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing.

Mr. Simon Shen

Mr. 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 3.5 years before he joined Applus+. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager. Mr. Simon Shen is based in Shanghai, China. Mr. Simon Shen participates in the project's technical review team.

APPENDIX 4: Meter Details

It is to be noted that all meters installed at the time of commissioning are calibrated meters as per state electricity guidelines. Thus, considering the calibration frequency of five years⁴, all meters are valid for current monitoring period. The project site consists of 5x 50 MW installed by 5 different EPC contractor and thus defined 5 blocks in the same namely P1, P2, P3, P4 and P5. Few blocks have 1 feeder and few blocks are having two feeders. Therefore, each feeder is essentially having one main meter and optional check meter and stand by meter for the same.

The details of calibration are as below:

A) Meter and Calibration details of 50 MW Solar power project by NTPC limited at Anantapur:

| 220/33 KV POOLING SUBSTATION-I NP KUNTA | | | |
|---|-----------------|-----------------|-----------------|
| Feeder - 1A | | | |
| Meter Details | Main Meter | Check Meter | Standby Meter |
| Meter Serial No | APX00736 | APX00737 | APX00738 |
| Meter Make | Secure | Secure | Secure |
| Accuracy Class | 0.2s | 0.2s | 0.2s |
| Date of Calibration | 13-March-2016 | 13- March -2016 | 13- March -2016 |
| Due Date | 12- March -2021 | 12- March -2021 | 12- March -2021 |

| 220/33 KV POOLING SUBSTATION-I NP KUNTA | | | |
|---|------------|-------------|---------------|
| Feeder - 1B | | | |
| Meter Details | Main Meter | Check Meter | Standby Meter |
| Meter Serial No | APX00739 | APX00740 | APX00741 |
| Meter Make | Secure | Secure | Secure |

⁴ https://cea.nic.in/wp-content/uploads/2020/02/meter_reg.pdf

| | | | |
|----------------------------|-----------------|-----------------|-----------------|
| Accuracy Class | 0.2s | 0.2s | 0.2s |
| Date of Calibration | 13- March -2016 | 13- March -2016 | 13- March -2016 |
| Due Date | 12- March -2021 | 12- March -2021 | 12- March -2021 |

B) Meter and Calibration details of 260 MW Solar power project by NTPC Limited at Bhadla, Rajasthan

| 132 KV GOVERNMENT SUBSTATION | | |
|------------------------------|--------------------------|--------------------------|
| Block- P4, Jakson | | |
| Meter Details | Main Meter | Check Meter |
| Meter Serial No | 15624946 | 15199974 |
| Meter Make | L & T | L & T |
| Accuracy Class | 0.2s | 0.2s |
| Date of Calibration | Previous:27-October-2021 | Previous:27-October-2021 |
| | Recent:01-December-2022 | Recent:01-December-2022 |
| Due Date (As per PD MR) | Previous:26-October-2022 | Previous:26-October-2022 |
| | Recent:30-November-2023 | Recent:30-November-2023 |

| 132 KV GOVERNMENT SUBSTATION | | |
|------------------------------|--------------------------|--------------------------|
| Block- P5, Vikram | | |
| Meter Details | Main Meter | Check Meter |
| Meter Serial No | 16195132 | 16195133 |
| Meter Make | L & T | L & T |
| Accuracy Class | 0.2s | 0.2s |
| Date of Calibration | Previous:21-October-2021 | Previous:21-October-2021 |
| | Recent:01-December-2022 | Recent:01-December-2022 |

| | | |
|-------------------------|--------------------------|--------------------------|
| Due Date (As per PD MR) | Previous:20-October-2021 | Previous:20-October-2021 |
| | Recent:30-November-2023 | Recent:30-November-2023 |

| 132 KV GOVERNMENT SUBSTATION | | |
|------------------------------|--------------------------|--------------------------|
| Block- P6, Vikram | | |
| Meter Details | Main Meter | Check Meter |
| Meter Serial No | 16195109 | 16195110 |
| Meter Make | L & T | L & T |
| Accuracy Class | 0.2s | 0.2s |
| Date of Calibration | Previous:21-October-2021 | Previous:21-October-2021 |
| | Recent:01-December-2022 | Recent:01-December-2022 |
| Due Date (As per PD MR) | Previous:20-October-2021 | Previous:20-October-2021 |
| | Recent:30-November-2023 | Recent:30-November-2023 |

| 132 KV GOVERNMENT SUBSTATION | | |
|-----------------------------------|----------------------------|----------------------------|
| Block- P7, Tata | | |
| Meter Details | Main Meter | Check Meter |
| Meter Serial No | 16082424 | 16082425 |
| Meter Make | L & T | L & T |
| Accuracy Class | 0.2s | 0.2s |
| Date of Calibration | Previous:01-March-2021 | Previous:01- March -2021 |
| | Recent:02- March -2022 | Recent:02- March -2022 |
| Due Date (As per PD MR Frequency) | Previous: 28-February-2022 | Previous: 28-February-2022 |
| | Recent:01- March -2023 | Recent:01- March -2023 |

C) Meter and Calibration details of 250 MW Solar power project by NTPC Limited at Mandsaur, Madhya Pradesh

| 132KV/220KV Substation | | |
|------------------------|----------------|----------------|
| Block- P1, Lanco | | |
| Meter Details | Feeder-1 Meter | Feeder-2 Meter |
| Meter Serial No | Y0319695 | Y0319685 |
| Meter Make | Secure | Secure |
| Accuracy Class | 0.2s | 0.2s |
| Date of Calibration | 12-March -2018 | 12-March -2018 |
| Due Date | 11-March -2023 | 11-March -2023 |

| 132KV/220KV Substation | | | | |
|------------------------|-----------------|-----------------|-----------------|-----------------|
| Block- P2, Lanco | | | | |
| | Feeder-1 | | Feeder - 2 | |
| Meter Details | Main Meter | Spare Meter | Main Meter | Spare Meter |
| Meter Serial No | Y0319681 | Y0319693 | Y0319692 | Y0319694 |
| Meter Make | Secure | Secure | Secure | Secure |
| Accuracy Class | 0.2s | 0.2s | 0.2s | 0.2s |
| Date of Calibration | 12- March -2018 | 13- March -2018 | 12- March -2018 | 13- March -2018 |
| Due Date | 11- March -2023 | 12- March -2023 | 11- March -2023 | 12- March -2023 |

| 132KV/220KV Substation | | | |
|-------------------------|-------------|-------------|-------------|
| Block- P3, Vikram Solar | | | |
| Meter Details | Main Meter | Check Meter | Spare Meter |
| Meter Serial No | Y0310625 | Y0310626 | Y0582663 |
| Meter Make | Secure | Secure | Secure |
| Accuracy Class | 0.2s | 0.2s | 0.2s |
| Date of Calibration | 05-May-2017 | 05-May-2017 | 23-May-2018 |
| Due Date | 04-May-2022 | 04-May-2022 | 22-May-2023 |

| 132KV/220KV Substation | | | | | | |
|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Block- P4, BHEL | | | | | | |
| | Feeder-1 | | Feeder-2 | | Feeder-1 | Feeder-2 |
| Meter Details | Main Meter | Check Meter | Main Meter | Check Meter | Spare Meter | Spare Meter |
| Meter Serial No | Y0319907 | Y0319906 | Y0319908 | Y0319910 | Y0319909 | Y03199011 |
| Meter Make | Secure | Secure | Secure | Secure | Secure | Secure |
| Accuracy Class | 0.2s | 0.2s | 0.2s | 0.2s | 0.2s | 0.2s |
| Date of Calibration | 24- March -2017 | 24- March -2017 | 24- March -2017 | 24- March -2017 | 24- March -2017 | 24- March -2017 |
| Due Date | 23- March -2022 | 23- March -2022 | 23- March -2022 | 23- March -2022 | 23- March -2022 | 23- March -2022 |

| 132KV/220KV Substation | | | | |
|------------------------|--------------|--------------|--------------|--------------|
| Block- P5, Tata | | | | |
| | Feeder-1 | | Feeder-2 | |
| Meter Details | Main Meter | Check Meter | Main Meter | Check Meter |
| Meter Serial No | XE505968 | XE505967 | XE505965 | XE505966 |
| Meter Make | Secure | Secure | Secure | Secure |
| Accuracy Class | 0.2s | 0.2s | 0.2s | 0.2s |
| Date of Calibration | 04-May-2017 | 04- May-2017 | 04- May-2017 | 04- May-2017 |
| Due Date | 03- May-2022 | 03- May-2022 | 03- May-2022 | 03- May-2022 |

D) Meter and Calibration details of 50 MW Wind power project by NTPC Limited at Rojmal, Gujarat

| | | |
|----------------------------|---|----------------------------|
| <i>NTPC Rojmal</i> | <i>220 KV SUKHPUR (INOX) SUBSTATION</i> | |
| <i>Meter Details</i> | <i>Main Meter (line 1)</i> | <i>(Main Meter line 2)</i> |
| <i>Meter Serial No</i> | <i>GJ- 3057-A</i> | <i>GJ- 3058-A</i> |
| <i>Meter Make</i> | <i>EDMI</i> | <i>EDMI</i> |
| <i>Accuracy Class</i> | <i>0.2s</i> | <i>0.2s</i> |
| <i>Date of Calibration</i> | <i>22-November-2021</i> | <i>22- November-2021</i> |
| <i>Due Date</i> | <i>21- November-2022</i> | <i>21- November-2022</i> |