



Vaspet-II and Vaspet-III Wind Power Project, Maharashtra



By KBS Certification Services Pvt. Ltd.

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Summary:

KBS Certification Services Pvt. Ltd. has been contracted by, “Emergent Ventures India Pvt. Ltd.” to undertake the periodic verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘Vaspet – II and Vaspet – III Wind Power Project, Maharashtra’ (VCS PROJECT ID 1404) for the monitoring period 04-Aug-2014 to 02-Apr-2020.

Project activity is the operation of 49.5 MW (33*1.5 MW WTG’s) wind power project, initially commissioned with first WTG Unit on 03-Apr-2013 in Shedyal, Salekeri & Valsang village of Sangli District in the state of Maharashtra, India. The project activity involves electricity generation using clean renewable energy source i.e. wind and supplies the generated electricity to the Indian grid system via Power Purchase Agreement (PPA) between M/s Renew Wind Energy (Shivpur) Pvt. Ltd. and Maharashtra State Electricity Distribution Co. Ltd.(MSEDCL) for selling power from the 49.50 MW wind farm generation. The project displaces the electricity produced by fossil fuel-based power plants, and thereby contributes to sustainable development through reduction in greenhouse gas (GHG) emissions.

A risk-based approach has been followed to perform the verification of the project activity. In the course of the verification, 06 Corrective Action Requests (CARs), 02 Clarifications (CLs) and 00 Forward Action Requests (FARs) were raised.

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

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

- The project fulfils criteria of VCS Standard Version 4.1.
- The project is in line with all relevant VCS requirements.
- Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board and VCS Association;
- All information and references relevant to the project activity resulting in emission reductions;
- The monitoring is transparent, adequate and in line with applied baseline and monitoring methodology of ACM0002 – Grid connected electricity generation from renewable sources, Version 13.0.
- Based on the information seen and evaluated we confirm that the implementation of the project has resulted in 477,443 tCO₂e emission reductions during period 04-Aug-2014 to 02-Apr-2020.

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1 INTRODUCTION

1.1 Objective

KBS Certification Services Pvt. Ltd. has been contracted by, “Emergent Ventures India Pvt. Ltd.” to undertake the periodic verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘Vaspet – II and Vaspet – III Wind Power Project, Maharashtra’ (VCS PROJECT ID 1404) for the monitoring period 04-Aug-2014 to 02-Apr-2020 (both dates included). The VCS projects must undergo an independent third-party verification and certification of emission reductions as the basis for issuance of Verified Emission Reductions (VERs).

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

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

1.2 Scope and Criteria

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

The project is assessed against the requirements of VCS standard version 4.1 and related rules and guidance. KBS has, based on the recommendations in the latest version of Verified Carbon standard, and employed a rule-based approach (as criteria) in the verification, focusing on the identification of significant reporting rules and the reliability of project monitoring.

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

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

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

1.3 Level of Assurance

☒ Reasonable level of assurance

The verification is based on the VCS PD, MR, proof of title, proof of ownership, additional documents related to baseline and monitoring methodology, the subsequent background investigation, monitoring plan, follow-up interviews and supporting documents made available to the verification team by project proponent. The information in these documents is reviewed against the requirements of VCS Standard Version 4.1. KBS has employed a risk-based approach in the verification, focusing on the identification of significant risks for project implementation and the generation of Emission Reductions.

The items covered in the verification are described below:

- Criteria of VCS Version 04 (VCS Program guide Version 04 & VCS Standard Version 4.1)
- Criteria of CDM approved methodology, ACM0002 (Version 13.0.)
- VCS Monitoring Report /01/
- Monitoring Plan
- Background investigation and follow up interviews
- Stakeholder feedback
- Registered VCS-PD and Validation Report
- Monitoring report and Verification report for previous monitoring period
- project's compliance with other relevant rules, including the project country (India) legislation and assurance to stakeholders of the quality

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

- Compliance with relevant law and regulations
- Stakeholder comments (If any)
- Technical specifications of the WTG, Energy Meter's/07/
- Start date supportive
- Ownership documents such as commissioning certificates/12/
- Remote auditing (27-September-2021) for verification

- Training records /13/
- Calibration Certificates /06/
- Export/Import data records
- Operation & Maintenance / Maintenance/Shut down records /15/

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

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

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

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

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

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

1.4 Summary Description of the Project

Project activity is the operation of 49.5 MW wind power project in Sangli district, state of Maharashtra, India. The project activity involves electricity generation using clean renewable energy source i.e. wind and supplies the generated electricity to the Indian grid system via Power Purchase Agreement (PPA) between M/s Renew Wind Energy (Shivpur) Pvt. Ltd. and Maharashtra State Electricity Distribution Co. Ltd.(MSEDCL) for selling power from the 49.50 MW wind farm generation. The project displaces the electricity produced by fossil fuel-based power plants, by using clean renewable source to generate electricity and thereby contributes to sustainable development through reduction in greenhouse gas (GHG) emissions.

The start date of the project was considered as 03-Apr-2013 during registration /3.2/, which is based on the commissioning of the first WTG of the project activity, as verified from the commissioning certificates /12/.

The project began generating GHG emission reductions from 03-Apr-2013 (since its commissioning).

The duration of crediting period for this project activity is 07 years i.e. from 03-Apr-2013 to 02-Apr-2020, as confirmed from the VCS registered documents /3/. The project is also registered under Clean Development Mechanism (CDM) of UNFCCC with 7 years crediting period (Reference No of CPA : 9416-P1-0003-CP1)¹. Crediting period of the project under CDM starts on 04-Aug-2014 and ends on 03-Aug-2021, which is in accordance with the CDM registration date.

During the remote audit inspection, location (as mentioned in Table, section 1.7 of MR) and all the technical aspects of the project activity mentioned in the final PDD /3/ have been verified. The same was also crosschecked during the desk review of supporting documents such as calibrations certificates/6/, photographic evidence/7/, monthly-generation reports/8/

It was also confirmed (through remote interviews) that the project activity has been operational since commissioning (03-Apr-2013)/12/. During the monitoring period i.e. from 04-Aug-2014 to 02-Apr-2020, the project has generated 501,095.14 MWh net electricity, thereby resulting in total emission reduction of 477,443 tCO₂e.

Project entity information as verified is presented below:

Item	Data
Project Entities	Renew Wind Energy (Shivpur) Private Limited (Project proponent)
	Emergent Ventures India Pvt. Ltd. (Project Consultant)

2 VERIFICATION PROCESS

2.1 Method and Criteria

The verification process was carried out in line with the requirements of VCS Version 04.1 /4/. Standard auditing techniques and KBS's CDM Procedures were also applied during the verification. A risk-based approach was followed to carry out verification and access all the factors and concerns that relate to the issuance of emission reductions from a project activity.

¹https://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/SODAMYVG9ROKQ146BFWJPT82Z7L3IN/view

They include:

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

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

Duration of Verification:

Remote audit verification	27-September-2021
Draft Verification Report	25-October-2021
Final Verification Report	03-November-2021

2.2 Document Review

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

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

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

2.3 Interviews

Please refer section 3.4, where complete list of interviewed personnel and key points discussed is provided.

2.4 Site Inspections

As a result of the COVID-19 pandemic, taking into account the rules of relevant national and local authorities (local to the VVB offices as well as to locality of the site visits), World Health Organization (WHO) recommendations, policies of the VVB, email clarification for Verra guidance on site visits, notification of Covid-19 Travel Guidance for Projects <https://verra.org/covid-19-travel-guidance/> and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return from specific countries), the VVB has skipped the on-site visit. Further Email from VERRA dated 24-Mar-2020 from “Andrew Beauchamp” has been referred as per which “The VCS Program does not explicitly mandate site visits as part of the validation and verification process, only that VVBs must achieve a reasonable level of assurance on all validations and verifications (per Section 4.1.2 of the VCS Standard, v4.1). Therefore, where a VVB can achieve a reasonable level of assurance without conducting a site visit, or through a remote site visit, this is in conformance with the VCS rules, and no request for an exemption or pre-approval from Verra is required. However, where a validation/verification has been conducted without a site visit, or through a remote site visit, please ensure that the applicable section of the validation/verification report includes a discussion of how a reasonable level of assurance was achieved without an in-person site visit”.

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

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

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

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

Dates:	27-Sept-2021 (Zoom Video inspection and interview)	
Key points discussed:	Name of person, interviewed	Designation, Organization
VCS requirements, Operational data,	1.) Mr Deepak Bawari	Project Consultant, Emergent Ventures India Pvt. Ltd

Monitoring equipment, Calibration, Data collection, storage, Archiving QA/QC procedures Training of monitoring personnel Calculation of ERs Grievance procedure O &M procedures	1.) Mr. Satish Nikam (Sr Manager – Wind Asset Management). 2.) Mr. Vikas Londhe – Site Incharge (Manager). 3.) Mr Shrishail – Section Incharge (Sr. Engineer) 4.) Mr. Ramachandra Mali – eBoP incharge (Manager) 5.) Mr Mahesh Kadam – eBoP incharge 6.) Deepak Wagh (Sr Engineer – Wind O & M)	PP representatives (Responsible for operation and monitoring of the project activity)
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2.5 Resolution of Findings

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

Corrective action request (CAR):

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

Clarification request (CL):

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

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

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

02 CLs and 06 CARs were found during verification and closed satisfactorily. The list of CARs/CLs raised and the response provided, the means of verification, reasons for their closure and references to correction in the MR are provided in appendix 3 of this report. The revised MR/1.2/

with changes incorporated as per the issues raised were rechecked with the documentary evidences and found to be inline.

2.5.1 Forward Action Requests

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

No FAR was raised during this monitoring period. Neither there was any FAR from validation of this project.

2.6 Eligibility for Validation Activities

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

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

As confirmed through the remote interview and the review of various registries, the project is registered under Clean Development Mechanism (CDM) of UNFCCC as CPA under PoA 9416. (Reference No Of CPA: 9416-P1-0003-CP1)².

Crediting period of the project (CPA) under CDM starts on 04-Aug-2014 and ends on 03-Aug-2021,

No CERs have been issued for this CPA under CDM which has been confirmed from UNFCCC webpage for this PoA. In addition to this, PP has also confirmed that no credit from any other mechanism shall be considered for the current monitoring period. An undertaking has been provided in this context to confirm that there isn't any double accounting for current monitoring period.

3.2 Methodology Deviations

The verification team confirms that the registered project (CPA), under the monitoring period (i.e. 04-Aug-2014–02-Apr-2020), complies with the requirements of the applied monitoring methodology ACM0002 (Version 13.0). Therefore, no methodology deviations are applied during the monitoring period.

²https://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/SODAMYVG9ROKQ146BFWJPT82Z7L3IN/view

Finding: No findings were raised

3.3 Project Description Deviations

There has not been any project description deviation during the current monitoring period.

3.4 Grouped Project

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

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

Renew Wind Energy (Shivpur) Private Limited has set up 49.5 MW wind power project in the state of Maharashtra in India. The project activity comprises of 33 number Wind Turbine Generators (WTG's) with a capacity of 1.5 MW each. The project activity is in operation stage as evidenced by the remote inspection (Zoom video inspection) of the site. All the physical components and project boundary are in conformity with the description in registered VCS PD and PDD /3.1//3.2/.

The capacity of project equipment's has been confirmed during the remote inspection, also through the technical specifications /7/ and found in-compliance with the registered VCS PD & PDD/3.1//3.2/ and monitoring report of the previous monitoring period. The technology of electricity generation from wind power is environment friendly as it does not use any fossil fuel. The power (electricity) produced by the project activity is transmitted to the NEWNE electricity grid (now referred to as INDIAN Grid). Therefore, the project activity is displacing an equivalent amount of electricity which would have been otherwise generated in fossil fuel dominant electricity grid. The annual average emission reduction by the project activity as estimated in the registered PD is 85,680 tCO₂e and the total emission reduction over the 07-year crediting period is estimated to be 599,760 tCO₂e.

The project activity was commissioned on 03-Apr-2013 as verified from the commissioning certificate of the project activity /12/. Based on the remote inspection and the reviewed project documentation such as such as calibrations certificates/6/, photographic evidence/7/, monthly-generation reports/8/, and Invoices/11/ it has been confirmed that the project was implemented and operated as described in the registered VCS PD & PDD/3.1//3.2/ and is in continuous operation since commissioning. Further, review of documents such as on-site pictures (of WTGs, electricity meters), calibration certificates, share certificates, breakdown details etc and during the remote interviews, verification team has confirmed that except for the routine scheduled maintenance and breakdown/15/, no such event has occurred that has impacted the GHG emission reductions or removals and monitoring. Same has been checked from the operational data during remote auditing and through the submitted generation data/8/.

Ownership and other programs:

Net GHG emission reductions or removals generated by this project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions as the host country i.e., India is not a participant in any emission trading programs or nor does it have any binding limits.

The project is registered under other programs such as Clean Development Mechanism (CDM) of UNFCCC as CPA under PoA 9416 (Reference No of CPA: 9416-P1-0003-CP1). PP has not applied this project in any other form of environmental credits and has also submitted a declaration/16/ for not participating into other GHG programs.

Management and operational system:

Verification team was able to verify that authorities and responsibilities /14/ for monitoring and reporting of all data related to the emission reductions were clearly defined for the monitoring period from 04-Aug-2014 to 02-Apr-2020.

The allocation of the responsibilities is documented in a written form and is followed as described in the registered VCS PD & PDD/3.1//3.2/. Routines for the archiving of data are defined and documented. The electricity generation records /8/ were verified and found that the data is consistent with the provided in the final MR/1.2/ and ER sheets/2.2/.

The verification team has remotely interviewed the plant personnel involved in the monitoring of the parameters that are used to determine the emission reductions of the VER project. It is confirmed based on the interviews and training records /13/, that the plant's team is competent enough to monitor the parameters as described in the monitoring plan /3.2/.

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

Implementation status of the monitoring plan:

Verification team confirms through remote inspection (refer to section 2.4 for details) and from the Review of operation /6//7//8//12/, generation/8/, invoicing/11, maintenance/17/, data handling and archiving process that the actual monitoring system complies with the monitoring plan mentioned in the registered VCS PD & PDD /3.1//3.2/.

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

Therefore, from the Review of operation 6//7//8//12/, generation/8/, invoicing/11/, maintenance/17/data handling, archiving process and remote inspection, it is confirmed that all

the parameters were monitored in accordance with the registered monitoring plan during the monitoring period. Following are the details of monitoring in accordance with the monitoring plan of the registered VCS PD & PDD/3.1//3.2/.

Data / Parameter	EG _{facility,y}
Data unit	MWh
Description	Quantity of net electricity exported to the grid during the year y.
Source of data	The verification team has checked share certificates /11.2/ issued by Maharashtra State Electricity Distribution Co. Ltd.(MSEDCL) to the PP and the value of net electricity supplied to the grid was found to be consistent with the final ER sheet /2.2/. The net electricity supplied to the grid has also been cross verified with the monthly invoices issued by the PP to Maharashtra State Electricity Distribution Company Limited (MSEDCL) based on monthly share certificates /11/
Description of measurement methods and procedures to be applied	The JMR is usually taken once in month for the bulk/ revenue meter at the common substation. Also with the individual WTG controller reading (LCS data), the JMR also gives (where applicable – apportioned) electricity import of each WTG and losses till metering point. By using these data, net export by the WEGs is calculated (as in some case net export is not explicitly reported in JMR).
Frequency of monitoring/recording	The parameter is monitored continuously, and the accumulated generation data is recorded on monthly basis as confirmed by the verification team through remote interviews.
Value monitored	501,095.14 Monthly values for entire monitoring period reported in the monitoring report and ER calculation sheet were verified from the monthly share certificates /11.2/ and found to be consistent. Verification team has also checked the invoices /11/ and the calculations in final ER sheet /2.2/ to confirm that the monitored value is accurate and acceptable.
Monitoring equipment	Bi-directional (main and check) at the Valsang substation are installed to record the electricity exported & imported. This Valsang substation has 4 feeders (1,2,6&7). Each feeder has its own set of main and check meters which are used to monitor electricity exported by project WTGs (33 no.) to/imported from grid. These electricity meters are being used by state electricity authority (MSEDCL) for the preparation of share certificates.

	Verification team confirms that all the energy meters at all 4 feeders (both main and check meter) installed at the substation are of accuracy class of 0.2s and are calibrated as per the standards followed by the electricity board, i.e. 1 years. Some calibration gaps were observed during the current monitoring period and PP has appropriately applied the correction factor throughout ER sheet in line with para 366 (a) of latest version of CDM VVS-PA. The working condition of the meters were also checked during the remote inspection and through snapshots. The details of meter calibration are provided in Annexure 1
QA/QC procedures to be applied	All the meters are calibrated by MSEDCL by every 1 year. The Joint meter reading at substation is taken by the representatives of MSEDCL in the presence of PP representative officials and are issued in the form of monthly share certificates /11.2/. Based on the Net electricity supplied by individual project as mentioned in the Share Certificate, Invoices is raised by PP for its WTGs.
Purpose of the data	As confirmed by the verification team, the data has been used for calculation of Baseline Emissions.
Calculation method	The net electricity supplied by individual wind turbines is determined by a process of sharing the net electricity recorded at the Main Meter in proportion of the electricity generation recorded by the energy meters at the individual wind turbines. The Sharing of energy is done as per PPA by MSEDCL and PP has no control over it. Based on the Net electricity supplied by individual project as mentioned in the Share Certificate, Invoices is raised by PP for its WTGs. The invoices are used for cross check mechanism and is as per the requirement of registered PDD and approved methodology.
Comments	The data is archived for two years after the end of the last crediting period or till the last issuance of VERs for the project activity, whichever is later.

Finding: CL 01, CL 02, CAR 01, CAR 02, CAR 04, were raised and successfully closed. Refer to appendix 2.

Opinion:

The verification team confirms that

- The project activity has been implemented and operated as per the registered VCS PD & PDD/3.1//3.2/ and that all physical features (technology, project equipment,

and monitoring and metering equipment) of the project are in place, as per the documents provided by the PP/7//8//11//15/ and remote audit inspection.

- The monitoring complies with the requirement of the applied methodology /5/;
- The information inflow (from data generation, aggregation, to recording, calculation and reporting) is included above under each parameter and confirms to the requirement of the PD /3.1/
- The values included in the monitoring report /1.2/ and corresponding emission reduction sheets /2.2/ are verified and included under each monitoring parameter.

4.2 Safeguards

4.2.1 No Net Harm

The project activity is the generation of electricity from a clean renewable energy source i.e. wind and does not involve any negative environmental and socio-economic impact. The project activity does not involve any major construction activity except for the installation of WTGs, other accessories and interfacing the generators by setting up HT transmission lines. Therefore, the project does not involve any potential negative environmental and socio-economic impacts and hence this criterion is not applicable to this project activity as per EIA notification 2006/10/.

4.2.2 Local Stakeholder Consultation

No comments were received during ongoing communication with local stakeholders verified & checked by the grievance register. Additionally, the Local Stakeholder Consultation Process was conducted in-line with requirement during project registration with PDD /3.2/.

4.3 AFOLU-Specific Safeguards

This is not an AFOLU project, as can be confirmed from the registered PDD /3.2/.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The verification team has reviewed the emission reduction (ER) spread sheet /2.2/ and checked all the formulae and verified them to be correct and in line with the monitoring plan of the registered PDD/3.2/ and the applied monitoring methodology /5/.

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

Baseline emissions:

The baseline emissions (BEy) are calculated based on the following formula:

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

Where:

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

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/yr)

$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version

of the "Tool to calculate the emission factor for an electricity system" (tCO₂/MWh)

And

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

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

The Combined margin CO₂ emissions factor in year y (tCO₂/ MWh), $EF_{grid,CM,y}$, is fixed ex-ante for the duration of the crediting period, and is 0.9528 tCO₂/ MWh

Therefore,

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

$$BE_y = 501,095.14 \times 0.9528$$

$$BE_y = 477,443 \text{ tCO}_{2e}(\text{rounded down})$$

It is noted that the formula and calculation used for baseline emission calculation in the monitoring report and ER sheet /2.2/ is in compliance with the registered VCS PD and PDD/3.1//3.2/. The default values and data used in the monitoring report /1.2/ is in-line with the registered PDD/3.2/. Hence, acceptable to the verification team.

Project Emissions:

In accordance with paragraph 34 of the Methodology ACM0002 (Version 13.0) the proposed project activity consists of wind power plants that does not use fossil fuels. Therefore, project emissions are considered zero.

$$PE_y = 0.$$

Leakage:

In accordance with paragraph 56 of the Methodology ACM0002 (Version 13.0)/5/, no other leakage emissions are considered. Therefore, leakage emissions are considered zero.

$$LE_y = 0$$

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 $ER_y = BE_y = 477,443 \text{ tCO}_2$ (roundddown

The following are the ex-ante parameters used in the ER calculation, which are in compliance with registered PDD/3.2/:

Parameter	Description	Justification
EF _{grid,CM,y} tCO ₂ /MWh	Combined margin emission factor of NEWNE grid	The ex-ante value (0.9528 tCO _{2e} /MWh) has been determined in the registered PDD /3.2/. And the emission factor is found to be appropriate. Hence, it is confirmed that the ex-ante details presented on the ex-ante parameter, in the MR /1.2/ is found appropriate.
EF _{grid, OM, y} tCO ₂ /MWh	Simple operating margin emission factor of NEWNE grid	The ex-ante value (0.9842 tCO _{2e} /MWh) has been determined in the registered PDD /3.2/. And the emission factor is found to be appropriate. Hence, it is confirmed that the ex-ante details presented on the ex-ante parameter, in the MR /1.2/ is found appropriate.
EF _{grid, BM, y} tCO ₂ /MWh	Simple build margin emission factor of NEWNE grid	The ex-ante value (0.8588 tCO _{2e} /MWh) has been determined in the registered PDD /3.2/. And the emission factor is found to be appropriate. Hence, it is confirmed that the ex-ante details presented on the ex-ante parameter, in the MR /1.2/ is found appropriate.

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

default values that were applied in the calculations have been justified. Also, the verification team confirms that there were no manual transposition errors between the data sets in the ER Sheet/2.2/ during the current monitoring period. It is confirmed that the data has been measured directly from meters and it was cross checked from the share certificate and the invoices/11/ raised to MSedCL and was able to verify the same.

Opinion: The verification team confirms that

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

Findings: CAR 03 has been raised and successfully closed. Refer to Appendix 3 for further details.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

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

All records needed for monitoring are archived in line with the requirements of the registered monitoring plan /3.2/. No significant lack of evidence and missing data were detected during remote audit interview and video inspection. Hence, the verification team confirms that the monitoring system ensures required quality of the monitoring system to ensure the quality of the monitored data. All internal data are subjected to QA/QC measures.

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

Findings: CAR 03 has been raised and successfully closed. Refer to Appendix 3 for further details.

4.6 Non-Permanence Risk Analysis

Not applicable to the project activity.

5 VERIFICATION CONCLUSION

KBS Certification Services Pvt. Ltd. has been contracted by, “Emergent Ventures India Pvt. Ltd.” to undertake the periodic verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘Vaspet –II and Vaspet – III Wind Power Project, Maharashtra’ (VCS PROJECT ID 1404) for the monitoring period 04-Aug-2014 to 02-Apr-2020.

The verification is based on the validated and registered VCS PD & PDD/3.2/ and the monitoring report/1.2/ for this project. Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakech accord, as well as those defined by the CDM Executive Board and the VCS Standard Version 4.1.

The management of the ‘Emergent Ventures India Pvt. Ltd.’ is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project Final Monitoring Report version 1.2 and dated 15-December-2021.

It is our responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the period 04-Aug-2014 to 02-Apr-2020 based on the reported emission reductions in the Final Monitoring Report version 1.2 and dated 15-December-2021 for the same period.

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

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

Verification period: From 04-Aug-2014 to 02-Apr-2020

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)
04-Aug-2014 to 31-Dec - 2014	13,302	0	0	13,302
2015	92,363	0	0	92,363
2016	98,221	0	0	98,221
2017	84,879	0	0	84,879
2018	88,140	0	0	88,140
2019	90,655	0	0	90,655
01-Jan-2020 to 02-Apr -2020	9,884	0	0	9,884
Total	477,443	0	0	477,443

Location: Faridabad

Date:- 15-December-2021



Authorized Signatory: Kaushal Goyal
Designation: Managing Director
KBS Certification Services Pvt. Ltd.

APPENDIX 1: METER CALIBRATION DETAILS

Feeder number	Feeder 1			Feeder 2	
Meter Type	Main	Check	Check	Main	Check
Meter Serial No	13769363	013813547	02797655	13813570	05269309
Meter make	Elster A1800	Elster A1800		Elster A1800	Elster A1800
Accuracy class		Accuracy class	0.2 s		
Date of previous calibration I	03-Jan-14	03-Jan-14		03-Jan-14	NA
Validity	02-Jan-15	02-Jan-15		02-Jan-15	
Date of previous calibration II	01-Sep-14	20-Feb-2015 Meter replaced	20-Feb-15	01-Sep-14	
Validity	31-Aug-15		19-Feb-16	31-Aug-15	
Date of previous calibration III	22-Jul-15		22-Jul-15	22-Jul-15	22-Jul-15
Validity	21-Jul-16		21-Jul-16	21-Jul-16	21-Jul-16
Date of previous calibration IV	08-Jul-16		08-Jul-16	08-Jul-16	26 Jan 2016 Meter replaced
Validity	07-Jul-17		07-Jul-17	07-Jul-17	
Date of previous calibration V	NA		18-Sep-17	18-Sep-17	
Validity			17-Sep-18	17-Sep-18	
Date of previous calibration VI	27-Jun-18		27-Jun-18	27-Jun-18	
Validity	26-Jun-19		26-Jun-19	26-Jun-19	
Date of current calibration	20-Aug-20		20-Aug-20	20-Aug-20	
Validity	19-Aug-21		19-Aug-21	19-Aug-21	
Remark		Meter replaced on date 20-02- 2015 from 13813547 to 2797655			Meter replaced on date 26-01- 2015 from

Feeder number	Feeder 1			Feeder 2	
Meter Type	Main	Check	Check	Main	Check
Meter Serial No	13769363	013813547	02797655	13813570	05269309
Meter make	Elster A1800	Elster A1800		Elster A1800	Elster A1800
					5269309 to 13813547

Feeder No.		Feeder 6		Feeder 7	
Meter Type	Check	Main	Check	Main	Check
Meter Serial No	013813547	13813551	15687853	15687854	14953662
Meter make		Elster A1800	Elster A1800	Elster A1800	Elster A1800
Accuracy class					
Date of previous calibration I		22-Oct-13	22-Oct-13	22-Oct-13	22-Oct-13
Validity		21-Oct-14	21-Oct-14	21-Oct-14	21-Oct-14
Date of previous calibration II		19-Jun-14	19-Jun-14	23-Jun-14	23-Jun-14
Validity		18-Jun-15	18-Jun-15	22-Jun-15	22-Jun-15
Date of previous calibration III	22-Jul-15	22-Jul-15	22-Jul-15	22-Jul-15	22-Jul-15
Validity	21-Jul-16	21-Jul-16	21-Jul-16	21-Jul-16	21-Jul-16
Date of previous calibration IV	NA	08-Jul-16	08-Jul-16	08-Jul-16	08-Jul-16
Validity		07-Jul-17	07-Jul-17	07-Jul-17	07-Jul-17
Date of previous calibration V	NA	18-Sep-17	18-Sep-17	18-Sep-17	18-Sep-17
Validity		17-Sep-18	17-Sep-18	17-Sep-18	17-Sep-18
Date of previous calibration VI	27-Jun-18	27-Jun-18	27-Jun-18	27-Jun-18	27-Jun-18
Validity	26-Jun-19	26-Jun-19	26-Jun-19	26-Jun-19	26-Jun-19

Feeder No.		Feeder 6		Feeder 7	
Meter Type	Check	Main	Check	Main	Check
Meter Serial No	013813547	13813551	15687853	15687854	14953662
Meter make		Elster A1800	Elster A1800	Elster A1800	Elster A1800
Accuracy class					
Date of current calibration	NA	20-Aug-20	Calibration not done due fault in meter	20-Aug-20	NA
Validity		19-Aug-21		19-Aug-21	
Remark			Meter replaced in 19-01-2021 from 15687853 to 1350784		

Note:-

- For energy meter on Feeder 6 and Feeder 7, calibration information is unavailable for period June 2015 and July 2015.
- For energy meter on Feeder 1, calibration information is unavailable for period July 2017 till June 2018.
- For energy meters on all Feeders. Calibration information is unavailable for period July- Sep 2017
- For energy meters on all Feeders. Calibration information is unavailable for period June 2019- March 2020
- However meters were found to be working within the permissible limit of error when these were calibrated in the future date. Hence an adjustment equal to the permissible limit of 0.2% is considered for both

APPENDIX 2: REFERENCES

/1/	/1.1/ Monitoring Report, Version 1.0 dated 19-Oct-2021. (Initial Version) /1.2/ Monitoring Report, Version 1.2 and dated 15-December-2021 (Final Version)
/2/	/2.1/ Emission Reduction calculation sheet (corresponding to initial Version of VCS MR) /2.2/ Emissions Reduction calculation Sheet (corresponding to final Version of VCS MR)
/3/	3.1/ Approved VCS – PD version 02 dated 14-Mar-2015 /3.2/ Registered CDM – CPA-DD version 03 dated 25-July-2014 (https://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/SODAMYVG9ROKQ146BFWJPT82Z7L3IN/view)
/4/	VCS Standard Version 4.1 VCS program guide Version 04 VCS Validation and Verification Manual version 3.2
/5/	ACM0002: Grid-connected electricity generation from renewable sources - ACM0002 (Version 13.0) (https://cdm.unfccc.int/methodologies/DB/MPY3HVJIMTKE5POUNTYE827D6Q7EHB)
/6/	Calibration certificates for Main, Check and Check Meters
/7/	Photographic evidences and technical specifications of WTG's, transformers & energy meters
/8/	Monthly generation data/excel sheet for exported electricity for the entire monitoring period 04-Aug-2014 to 02-Apr-2020
/9/	Tool to calculate the emission factor for an electricity system, Version 04.0 (https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf)
/10/	EIA/EMP reports for projects “Activities requiring environment clearance under EIA notification 2006” (http://environmentclearance.nic.in/writereaddata/standardtorreference.pdf)
/11/	/11.1/ Invoices issued by PP for the entire monitoring period 04 - Aug - 2014 to 02-Apr-2020 /11.2/ Monthly share certificates issued by MSEDCL for the entire monitoring period 04-Aug-2014 to 02-Apr-2020.
/12/	Commissioning certificate of the project activity (To verify ownership, start date, date of phased commissioning etc)
/13/	Training records
/14/	Organization structure/chart
/15/	Shut Down records & maintenance report for the entire monitoring period 04-Aug-2014 To 02-Apr-2020
/16/	VCS Declaration for no double counting for the monitoring period 04-Aug-2014 To 02-Apr-2020

APPENDIX 3: FINDINGS

Project name: Vaspet – II and Vaspet – III Wind Power Project, Maharashtra

Monitoring Period: 04 - August – 2014 to 02 – April - 2020

Summary of findings	CL	CAR	FAR
	02	06	00

Table 1:CLs from this validation & verification

CL ID	01	Section no.	4.4	Date: 23/09/2021
Description of CL				
PP shall clarify on the following from the ER sheet:				
1. Why electricity generation for the year 2016 is observed to be significantly higher and for the year 2017 is lower w.r.t to corresponding years?				
Project participant response				Date: 19/10/2021
1. The shutdown details are provided in the report. The wind variability results in power generation fluctuations. Hence there is variation in the data.				
Documentation provided by project participant				
<i>MR Version 1.1</i>				
VVB assessment				Date: 25/10/2021
The provided clarification regarding high generation for the year 2016 and low generation for the year 2017 has been checked and accepted. Thus, this CL is closed.				

CL ID	02	Section no.	4.1	Date: 23/09/2021
Description of CL				
PP shall clarify on the following				
1. Under section Appendix 1 of submitted MR, the calibration cycle (V) dt.18 –Sept -2017 and calibration cycle (current) dt.20 – Aug - 2020 for the year 2017 and 2020 has been exceeded from their due date. PP shall clarify the same along with supportive.				
Project participant response				Date: 19/10.2021

1. The calibration cycle (V) dt.18 -Sept -2017 and calibration cycle (current) dt.20 - Aug - 2020 for the year 2017 and 2020 has exceeded from their due dates. However, meters were found to be working within the permissible limit of error when these were calibrated in the future date. Hence an adjustment equal to the permissible limit of 0.2% is considered for both exports and imports data for respective feeders for the same period.	
Documentation provided by project participant	
<i>MR Version 1.1</i>	
VVB assessment	Date: 25/10/2021
The reason provided by the PP and with reference to shared ER sheet for increasing validity of calibration cycle (V)dt.18- Sept-2017 and calibration cycle(current) dt.20 - Aug - 2020 for the year 2017 and 2020 are checked & accepted. Hence, the CL for this part is closed now.	

Table 2. CAR from this validation & verification

CAR ID	01	Section no.	4.1	Date: 23/09/2021
Description of CAR				
1. In accordance with the VCS MR template filling instructions, the following information was found to be missing in the section 1.1 of the submitted MR: - The continuous operation period should be mentioned along with shutdown and maintenance details. 2. Under section 1.7 of submitted MR, the project location of installed WTG units are found to be inconsistent. PP shall provide the correct Geo Coordinates. - PP shall revise the section as per the with the above-mentioned requirements.				
Project participant response				Date: 19/10.2021
1.The shutdown record has been provided in the revised MR. 2. Correct geo-coordinates of the WTGs are provided in the revised MR.				
Documentation provided by project participant				
<i>MR Version 1.1</i>				
VVB assessment				Date: 25/10/2021
1.PP have now, provided the shut - down records for the monitoring period 04-Aug-2014 to 02-Apr-2020 in the revised MR version 1.1. Thus, this part of CAR is closed 2.PP have now corrected the geo-coordinates of the WTGs under section 1.7 of revised MR, Version 1.1. Thus, this part of CAR is closed.				

CAR ID	02	Section no.	4.2	Date: 23/09/2021
Description of CAR				
1. Under section 2.1 of the submitted VCS MR, PP shall include the web link for “EIA notification 2006”.				
Project participant response				Date: 19/10/2021
The web-link is provided in the revised MR.				
Documentation provided by project participant				
<i>MR Version 1.1</i>				
VVB assessment				Date: 25/10/2021
Now, PP has incorporated the revised web link for EIA notification, 2006. The mentioned web link under section 2.1 of revised MR, version 1.1 has been checked and found appropriate. Thus, this part of CAR is closed.				

CAR ID	03	Section no.	4.1, 4.4	Date: 23/09/2021
Description of CAR				
Under section 3.1 of the submitted MR, - PP shall include the details of technical specifications of Installed WTG units along with continuous operation of project activity. - PP shall mention any information on events that may impact the GHG emission reductions or removals and monitoring. If not, mention no such impacts or breakdowns.				
Project participant response				Date: 19/10/2021
- The technical specifications of the WTG are provided in the MR. - Plant maintenance and shutdown duration is provided. WTG wise shutdown information is shared separately.				
Documentation provided by project participant				
<i>MR Version 1.1</i>				
VVB assessment				Date: 25/10/2021
1. The technical specification of WTG is missing under section 3.1. .Hence, finding is currently open. 2. Now, PP shall added the information of plant maintenance under section 3.1 of the revised MR, version 1.1. The same has been checked and found appropriate. Thus, this part of CAR is closed.				
Project participant response				Date: 15/12/2021
The technical specifications of the WTG are provided in the MR.				
Documentation provided by project participant				
<i>MR Version 1.2</i>				

VVB assessment	Date: 15/12/2021
The technical specification of the WTGs in the project activity has been cross verified during remote audit. Further, now the technical specification consistent with information provided during remote audit has also been incorporated under section 3.1 of the revised MR version 1.2. Thus, now this part of CAR 03 has been closed.	

CAR ID	04	Section no.	4.1	Date: 23/09/2021
Description of CAR				
- Under section 4.1 of the submitted MR, PP shall provide the web links for “CEA database, for all the ex-ante parameters. - Under section 4.2 of the submitted MR, for the monitoring parameter “EG_{facility,y}”, the details (manufacturer, Serial no., calibration date etc.) of the monitoring equipment (i.e. Energy - Meters) shall be provided by the PP.				
Project participant response				Date: 19/10/2021
- Under section 4.1 Web link for “CEA database, for all the ex-ante parameters’ is provided in the revised MR. - Under section 4.2, monitoring equipment details are added.				
Documentation provided by project participant				
<i>MR Version 1.1</i>				
VVB assessment				Date: 25/10/2021
- PP have now, incorporated the web links of CEA data base, for all ex-ante parameters under section 4.1 of the revised MR, version 1.1. The same has been checked and found appropriate. Thus, this part of CAR is closed. - Now, PP has included the details of monitoring equipment along with serial no, manufacturing & calibration details under section 4.2 of revised MR, Version 1.1. The details have been checked and accepted. Thus, thus part of CAR is closed.				

CAR ID	05	Section no.	4.4	Date: 23/09/2021
Description of CAR				

1. Under section 5.1 of the submitted MR, PP shall mention the PLF calculated for the current monitoring period. 2. Under section 5.1 of the submitted MR, the net electricity generation value for current monitoring period are found to be inconsistent with the ER sheet. PP shall revise the same.	
Project participant response	Date: 19/10.2021
1. Under section 5.1 of the submitted MR, PLF calculation for current monitoring period is added. 2. Under section 5.1 of the revised MR, the net electricity generation values have been corrected.	
Documentation provided by project participant	
<i>MR Version 1.1</i>	
VVB assessment	Date: 25/10/2021
1. PP have included the details of baseline emission calculation under section 5.1 of MR, Version 1.1. Also checked the estimated data with reference to VCS registered document and found that the values are within the permissible limits. Therefore no need of inclusion of calculated PLF. Thus, this part of CAR is closed. 2. Now, PP has corrected the net electricity generation value for current monitoring period under section 5.1 of revised MR version 1.1. Thus, this part of CAR is closed.	

CAR ID	06	Section no.	4.4	Date: 23/09/2021
Description of CAR				
In the ER sheet, PP shall revise the following: - For the month October 2018, the share certificate & JMR is found to be missing. PP shall submit the share certificate & JMR. - For the month May 2019, the generation value shall be corrected, mentioned generation value is found to be inconsistent with share Certificate & JMR				
Project participant response				Date: 19/10.2021
- JMR and share certificate for Oct 2018 is provided. - For the month May 2019, the generation value has been corrected and made consistent with share certificate and JMR.				
Documentation provided by project participant				
<i>MR Version 1.1</i>				
VVB assessment				Date: 25/10/2021

1. PP have provided JMR/share certificate for the Month Oct 2018. The generation values are found appropriate and in-line with shared ER sheet invoice. Hence, this part of CAR is closed
- 2.) PP, have now corrected the May 2019, generation value in the ER sheet, mentioned generation value is now consistent with share certificate and JMR. Thus, this part of CAR is closed.

Table 3. FAR from this validation & verification

FAR-ID		Section no.		Date:
Description of FAR				
Project participant response				Date:
Documentation provided by project participant				
VVB assessment				Date:

APPENDIX 4: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Personnel Name:		Anjana Sharma	
Qualified to work as:			
Team Leader	☒	Technical Expert	☒
Validator/Verifier	☒	Financial Expert	☒
Technical Reviewer	☒	Local Expert (India)	☒
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
SS: 01: Energy industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar		
	TA 1.2: Energy generation from renewable energy sources		
SS 3: Energy demand	TA 3.1. Energy Demand		
SS 5: Chemical industry	TA 5.1 Chemical industry		
SS 12: Solvents use	TA 12.1 Chemical industry		
SS 13: Waste handling and disposal	TA 13.1 Waste Handling and Disposal		
	TA 13.2 Manure		
Approved by (Manager C & T)	Shikha Sharma		
Approval date:	05/08/2021		

Personnel Name:		Tushar Chaudhari	
Qualified to work as:			
Team Leader	☒	Technical Expert	☒
Validator/Verifier	☒	Financial Expert	☒
Technical Reviewer	☒	Local Expert (India)	☒
Area(s) of Technical Expertise			

Sectoral Scope	Technical Area
Energy Industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar
Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources
Energy demand	TA 3.1. Energy Demand
Waste Handling and Disposal	TA 13.1 Waste Handling and Disposal
Approved by	Manager Competency & Training
Approval date:	02/09/2020

Personnel Name:		Mr. Amit Rai	
Qualified to work as:			
Verifier (Trainee)	☒	Technical Expert	☐
Validator/Verifier	☐	Financial Expert	☐
Technical Reviewer	☐	Local Expert	☐
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
-	-		
Approved by (Manager C & T)	Shikha Sharma		
Approval date:	31/05/2021		