



VASPET-II AND VASPET-III WIND POWER PROJECT, MAHARASHTRA



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

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Summary:

Verification purpose: LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed^{2/} by “M/s. ReNew Wind Energy (Shivpur) Private Limited” to perform the 4th verification (01-January-2022 to 30-June-2022) of the “VASPET-II AND VASPET-III WIND POWER PROJECT, MAHARASHTRA” (VCS ID 1404)^{1/4/}. The main purpose of this verification activity is to have an independent third party for the assessment of the project design, monitoring report to ensure a thorough assessment of the proposed project activity against the applicable VCS requirements.

The purpose of the project activity to generate energy electricity by the utilization of wind energy and further selling the generated energy to the Indian grid. The power (electricity) thus produced by the project activity would be transmitted to Indian electricity 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 project activity is installation of 49.50 MW wind power project, promoted by ReNew Wind Energy (Shivpur) Private Limited). The project consists of 33 number Wind Turbine Generators (WTG's) of 1.5 MW each. The project WTGs are installed in the Shedyal, Salekeri and Valsang village of Sangli district, Maharashtra State, in India. The Project Activity was commissioned in phase-wise manner and 1st set of WTGs were commissioned on 03-April-2013.^{101/} The monitoring period for this VCS verification is 01-January-2022 to 30-June-2022 (including both days) and the project activity achieved 36,878 tCO₂e emission reductions during this monitoring period thereon displaced 38,705.422 MWh 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.

The scope of the verification is the independent and objective review of the Monitoring Report (MR)^{6/}. The MR is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board and VCS executive board, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM validation and verification standard for project activities, version 03.0/^{15/}, review against registered VCS PD ^{5/} and Final Validation report, CDM validation and verification standard for project activities, version 03.0/^{14/}, VCS program guide version 4.2/^{9/} and VCS Standard Version 4.3/^{9/}

A risk-based approach has been followed to perform this verification activity. In the course of verification, 05 Corrective Action requests (CAR), 00 Clarification Requests (CLs) were raised and successfully closed. No FAR was raised during this verification. 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 LGAI Technological Center S.A. (Applus+ Certification) with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

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 VCU. 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.

¹ <https://registry.terra.org/app/projectDetail/VCS/1404>

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 document verifications. The entire documents checked/verification conducted to arrive at positive verification conclusions.

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1. INTRODUCTION

1.1 Objective

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “ReNew Wind Energy (Shivpur) Private Limited” to perform the 4th verification of the “VASPET-II AND VASPET-III WIND POWER PROJECT, MAHARASHTRA” under VCS Project guide, version 4.2 and VCS standard, version 4.3. The objective of this verification activity is to have an independent third party for the assessment of the project design, Monitoring Report and ER Sheet and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular;

- The project's baseline is assessed against ACM0002, version 13.0 /^{16/}
- The project's monitoring plan is assessed against “ACM0002, version 13.0 /^{16/}
- the projects compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS program guide, version 4.2 and VCS standard, version 4.3
- CDM validation and verification standard for project activities, Version 03.0/^{14/}
- VCS program guide version 4.2/^{9/}
- VCS standard version 4.3/^{9/}

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.

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR)/^{6/} prepared as per the registered CDM CPA-DD^{4/} and VCS PD/^{5/} and registered approved methodology ACM0002, version 13.0 /^{16/}. 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 4.3 and programme guide, version 4.2, including the approved baseline and monitoring methodology ACM0002, version 13.0. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0 and VCS program guide version 4.2 and VCS Standard Version 4.3.

The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the Monitoring report. In line with Guidelines for Application of materiality in verifications, the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction

calculation spread sheet. It follows the paper trail back to the raw data such as meter reading records and invoices. There are no material errors, overestimation of ER, omission or misstatement. Verification team conducted remote audit to verify metering/monitoring arrangement. The verification team has reviewed all the documents like commissioning certificates/^{1/}, technical specification/^{17/}, Joint Meter Reading/Credit Note /^{10/}, invoices/^{10/}, grievance register/^{13/} etc.

1.3 Level of Assurance

Applus + Certification has planned and performed the verification by obtaining evidence and other information and explanations that assessment team considers necessary to give reasonable assurance that reported estimated GHG emission reductions are fairly stated. All documentary evidences were checked, a remote audit was conducted to verify metering/monitoring arrangement to arrive at a verification conclusion by the assessment team.

In our opinion, the estimated GHG emissions reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002, version 13.0 and the VCS Standard, version 4.3.

1.4 Summary Description of the Project

The project activity is a wind-based power generation project. The project activity involves installation of 33 number Wind Turbine Generators (WTG's) of 1.5 MW each, which makes total capacity of project activity of 49.50 MW installed in the Shedyal, Salekeri and Valsang village of Sangli district, Maharashtra State, in India. The Project activity is promoted by ReNew Wind Energy (Shivpur) Private Limited. The monitoring period this VCS verification covered from 01-January-2022 to 30-June-2022 (inclusive of both dates) and the project activity achieved 36,878 tCO_{2e} emission reductions during this monitoring period. The start date of the Project Activity is 3-April-2013 as 1st set of WTG were commissioned on this date. Assessment team checked the Commissioning status of the project activity with the commissioning Certificates and found correct. The project is implemented as per the description in the registered VCS PD/^{5/}. No event observed during the current monitoring period which can alter or deviate from the methodology requirement.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification Process: The project assessment is based on the “CDM validation and verification standard for project activities, Version 03.0, VCS standard, version 4.3, VCS program guide version 4.2 and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of

the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed.

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

1. A desk review of the Monitoring report/^{06/} against the registered CDM CPA-DD and VCS PD and final validation report/^{4/5/};
2. Follow-up interviews with project participant;
3. The resolution of outstanding issues and the issuance of the final verification report and opinion.

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

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

Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of Applus+Certification.

The composition of audit team shall be approved by the 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
Mr. Pankaj Kumar	LA/TE	YES	YES	NA	YES
Mr. Srikanth Meesa	TR	YES	YES	NA	YES

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

Document review

The Monitoring report version 01/06/ submitted by the PP was reviewed against the approved methodology/^{16/}, approved registered VCS PD/^{05/}, final validation report and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information.

Further, a cross-check between information provided and information from other sources has been done. A complete list of all documents and evidence material reviewed is included in this report below in Appendix 1.

Follow-up interviews

A remote audit 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 03/06/ submitted by PP, serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Internal quality control

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

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

2.2 Document Review

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

1 of this report

2.3 Interviews

A remote audit was conducted for the project activity on 09-August-2022. Though COVID 10 pandemic situation now eases and travel restrictions are more or less lifted, VVB decided to skip the onsite visit to avoid any potential health risks. Moreover, The VCS Program does not explicitly mandate remote audits as part of the validation and verification process, only that VVBs must achieve a reasonable level of assurance on all validations and verifications (as per Section 4.1.2 of the VCS Standard, version 4.3)

The VVB has taken alternative measures to reach reasonable level of assurance and conducted remote audit through video conferencing with site personal & consultant (refer section 2.3) with the PP representative.

Technical details & metering/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 remote audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date of equipment's, generation records, 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, PPA, Plant records, Energy Generation Record sheets, invoice, calibration certificates etc. were also verified. The names of the persons interviewed during remote audit through video conferencing is given below;

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Sharma	Aditya	ReNew Wind Energy (Shivpur) Private Limited	09-August-2022	Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism, Management practices, data storage, QA/QC	Mr. Pankaj Kumar
2.	Kure	Ramesh	Villager			
3.	Sakpal	Ganesh	Villager			
4.	Ghose	Bibhushita	EKI Energy Services Limited		GHG calculations, MR and ER preparation, Data collection, data storage, QA/QC	

2.4 Site Inspections

Remote Audit (Video Conferencing): 09-August-2022				
No.	Activity performed on-site	Site location	Date	Team member
1.	Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring. 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.	Shedyal, Salekeri and Valsang village of Sangli district, Maharashtra State, India.	09-August-2022	Mr. 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 from verification which need to be clarified for Applus+ Certification's positive conclusion on the Monitoring report. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the verification process, the concerns raised and responses given are summarized below in the Appendix 2.

The final MR Version 03/06/ submitted by PP serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
Project design document and Monitoring report	00	01	00
Description of project activity	00	01	00
Application of selected baseline and monitoring methodology and selected standardized baseline			
Applicability of methodology and standardized baseline	00	00	00
Deviation from methodology	00	00	00

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
Clarification on applicability of methodology, tool and/or standardized baseline	00	00	00
Project boundary	00	00	00
Establishment and description of baseline scenario	00	00	00
Demonstration of additionality	00	00	00
Emission reductions	00	01	00
Calibration details	00	01	00
Monitoring plan	00	00	00
No Net harm assessment	00	00	00
Local stakeholder consultation	00	01	00
Others (please specify)	00	00	00
Total	00	05	00

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

2.5.1 Forward Action Requests

This is 4th verification of the project activity and no FAR was raised from validation and previous verifications.

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 VCS project activity has been registered with UNFCCC under Clean Development Mechanism (CDM). The project is a component project activity under a Programme of Activities (PoA). The details are provided below:

Unique Reference No. of PoA	:	9416 ²
Name of the PoA	:	Promotion of renewable energy generation in India- Programme of Activities
Date of Registration	:	31-December-2012
Name of the project	:	Vaspet-II and Vaspet III Wind Power Project, Maharashtra
Unique Reference No. of CPA	:	9416-0003
Date of Inclusion	:	04-August-2014

In VCS, current monitoring period is considered from 01-January-2022 to 30-June-2022.

² https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/H8ZL9NPDCF0B76JQM5XVTGKI1YU4A0/view

PP has provided undertaking that in current monitoring period, it does not claim GHG emission reduction credits in any GHG program other than that in VERRA. There is no double counting of GHG emission reduction.

3.2 Methodology Deviations

This section is not applicable for present verification as no methodology deviation sought during this verification and also in the earlier verifications by project participant

3.3 Project Description Deviation

Though there has not been any project description deviation during the aforesaid monitoring period (01-January-2022 to 30-June-2022). However, PP has sought rectification of one typo error in approved VCS PD. Project activity was registered in VCS standard v3.4 and as per VCS standard crediting period must be 10 years which is renewable twice. However, VCS PD mentioned as "Project Crediting Period: 03-April-2013 – 02-April-2020, Number of years: 7 years". There was a typo error while mentioning the crediting period This deviation is already approved during earlier verification³..

VVB verified with approved PD and confirmed that rectification sought is appropriate and it does not have any impact on baseline, additionality and estimation of GHG emission reductions.

3.4 Grouped Project

This is not a grouped project. Thus, this section is not applicable.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the remote audit, it was concluded that the project is implemented as per CDM CPA-DD/VCS PD and this is verified from the commissioning certificates, Power purchase agreement (PPA) submitted. 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 details/^{15/} 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.

Project location is confirmed by the assessment team through interview with PP during remote audit and assessment of monitoring report. Assessment team also checked the technical details

³ https://registry.terra.org/app/projectDetail/VCS/1404_1404_VCS_FVR_2022_IQ_MD_3.0Aa_03_October_2022.pdf

of the project site containing latitude and longitude of the project site and confirmed that the details as mentioned in the registered CDM CPA-DD/ VCS PD are correct which was checked by VVB on google earth.

The project activity is located in Shedyal, Salekiri and Valsang village of Sangli district, Maharashtra State, India. The geo-coordinates of location of the project activity are as follows:

S. NO.	LOCATION NO.	VILLAGE	GEOGRAPHICAL COORDINATES	
			LONGITUDE	LATITUDE
1	VASP-237	Shedyal	75.349014	17.020735
2	VASP-15	Shedyal	75.325371	17.048208
3	VASP-72	Shedyal	75.335732	17.050913
4	VASP-142	Shedyal	75.334518	17.041018
5	VASP-29	Shedyal	75.318893	17.046827
6	VASP-64	Salekiri	75.309723	17.036627
7	VASP-35	Salekiri	75.311081	17.04476
8	VASP-394	Salekiri	75.305176	17.052109
9	VASP-09	Salekiri	75.312446	17.050634
10	VASP-49	Salekiri	75.303299	17.041645
11	VASP-450	Shedyal	75.315186	17.040342
12	VASP-564	Valsang	75.335457	17.068613
13	VASP-510	Valsang	75.337708	17.057283
14	VASP-637	Valsang	75.349586	17.062027
15	VASP-696	Valsang	75.346336	17.058496
16	VASP-92	Shedyal	75.361488	17.050245
17	VASP-21	Valsang	75.307396	17.058651
18	VAPS III 397	Shedyal	75.314384	17.028946
19	VAPS III 26	Valsang	75.306488	17.055532
20	VAPS III 58	Salekiri	75.304634	17.038271
21	VAPS III 525	Valsang	75.33876	17.066185
22	VAPS III 384V	Valsang	75.317703	17.07345
23	VAPS III 387	Valsang	75.318108	17.077499
24	VAPS III 388	Valsang	75.319496	17.084095
25	VAPS III 700/1	Valsang	75.343796	17.054434
26	VAPS III 689	Valsang	75.355079	17.060282
27	VAPS III 355	Shedyal	75.329117	17.0168
28	VAPS III 698	Valsang	75.350258	17.055481
29	VAPS III 108	Salekiri	75.3041	17.028555
30	VAPS III 440	Valsang	75.318535	17.063026
31	VAPS III 463	Valsang	75.321266	17.060102
32	VAPS III 105	Shedyal	75.356155	17.046394
33	VAPS III 424	Shedyal	75.312675	17.024509

The commissioning schedule/^{1/} of the respective WTGs are as follows:

Location No.	Agg. Capacity (MW)	District	State	Commissioning Date
VASP-35, VASP-49, VASP64, VASP-09, VASP-510, VASP-564, VASP-637, VASP-29, VASP-72, VASP-142 VASP-15	16.50	Sangli	Maharashtra	03-April-2013
VASP III-388	1.50			19-April-2013
VASP-696	1.50			24-June-2013
VASP III-384, WASP III-397, VASP III-440 VASP III-26, VASP III-698, VASP-237, VASP-450, VASP-394	12.00			26-June-2013
VASP III-387, VASP III-58	3.00			01-August-2013
VASP III-700/1, VASP III-424, VASP III-108, VASP III-463, VASP III-525, VASP III-689	9.00			21-August-2013
VASP III-105, VASP III-355	3.00			29-August-2013
VASP-92, VASP-21	3.00			30-August-2013

The start date of the project is 3-April-2013 which is the first date of commissioning of the first WTG of the plant.

Verification team confirmed from the registered VCS PD^{5/} and from previous verification reports^{20/} that the location of the project activity including the coordinates is same as mentioned in the registered VCS PD^{5/}.

Assessment team checked the commissioning certificates^{1/} and confirmed that the dates of commissioning for the WTGs are correct. Assessment team also conformed during interview with the PPs representatives that there is no change in project design and the project is implemented as per the description provided in the VCS PD.

The project boundary includes the electricity generation equipment at the project site, substation and Indian grid.

Assessment team also checked, the technical details^{17/} of WTGs installed, during remote audit from documents submitted by PP and previous verification reports. The same is cross checked from the photographs of WTGs, sub-station metering locations etc.^{18/} submitted by PP & also cross checked from the technical details from Manufacturer.

Technical Specification of the WTGs is as follows:

Parameter	Specification/ Value (With Unit)
Manufacturer	ReGen Powertech Private Limited
Rated Power	1500kW
Rotor Diameter	82 m
Hub Height	85 m
Turbine Type	Direct drive horizontal axis with variable rotor speed
Power Regulation	Independent electromechanical pitch system for each blade
Cut-in wind speed	3 m/s
Rated wind speed	13 m/s
Cut-out wind speed	22 m/s
Operational range of rot. Speed	9 – 17.3 rpm
Orientation	Upwind
No. of blades	3
Blade Material	Glass fibre reinforced plastic
Gear box type	Gearless
Generator type	Synchronous, variable speed
Braking	Aerodynamic
Output voltage	620V
Tower height	85 m
Useful life	20 years

The assessment team confirmed that there is no proposed or actual change to the project design during this monitoring period. The project design as mentioned in the registered PD is implemented and thus the same is acceptable to the assessment team. All required monitoring equipment's and procedures as mentioned in the registered PD are available and implemented in an appropriate manner.

The organisational role and responsibility as mentioned in the registered VCS PD is followed onsite confirmed during remote audit. All the emergency preparedness as mentioned in the VCS registered PD is followed onsite and no discrepancies were found regarding the same. Meters are calibrated as per calibration frequency in registered PD. All the emergency preparedness as mentioned in the registered PD is followed onsite and no discrepancies were found regarding the same. Thus, completeness of the monitoring plan confirmed and there are no any material discrepancies between the actual monitoring system and the plan provided in the registered PD.

CAR 01 was raised for the inconsistency with respect to MR template guidelines and CAR 02 was raised for supporting evidences for No-Double counting and closed successfully after proper response of PP for the 4th Monitoring Period (01-January-2022 to 30-June-2022).

Assessment team confirms following during the verification remote audit:

1. Start date of the project activity is 3-April-2013 as mentioned in the registered VCS PD.
2. An undertaking letter dated 31-August-2022 has been submitted by PP for no double counting with any other GHG program. PP also has given a written declaration that project has not claimed other form of GHG credit for the concerned monitoring period. PP has given a written declaration that the credit claimed under VCS for the current monitoring period is not claimed under any other GHG mechanism^{/11/}.
3. Assessment team confirms that this is the 4th monitoring under VCS and covers the activity from 01-January-2022 to 30-June-2022 (inclusive of both dates). The project activity adopts renewable crediting period of 10-year period. The project start date for this project is 3-April-2013. This is the day on which the first WTG was commissioned.

The GHG credits from 01-January-2022 to 30-June-2022 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the “No Double Counting”^{/11/}.

4. Assessment team checked and found that the Project proponent of the project activity mentioned in Section 1.3 of monitoring report is correct^{/5//6/}
5. Assessment team also checked the details of other entity mentioned in Section 1.4 of monitoring report and found correct.
6. The quantified emission reduction calculation for the monitoring period is correct and conservative. Assessment team also compared actual VCU with the estimated VCU and found that the actual VCU is 36,878 tCO₂e which is 13.20% lower than the estimated emission reductions 42,487 tCO₂e (85,680 tCO₂e/365 days x 181 days) during this monitoring period which is due to low wind availability during the monitoring period which is a natural phenomenon and beyond the control of the Project Proponent and also the increase is within the sensitivity limit considered in the additionality as specified in the approved VCS joint PD & MR. Hence, this change will not affect the additionality of the project. The VVB confirms that these doesn't have impact on additionality and it is below the bench mark. Hence accepted

Sustainable development indicators

As a part of regional development efforts associated with the project, PP has supported many education, health & infrastructure related needs for local people. These are funded from the revenue generated from the operation of the project activity. In the absence of project activity, there would be no revenue generated from the project and hence the activity would have not occurred in the absence of the project activity.

Thus, the project activity contributes to the sustainable development of the country.

4.2 Safeguards

4.2.1 No Net Harm

No potential environment or socio-economic matter was found during the documents review of VCS PD and grievance register/^{13/} etc. The project is renewable energy project and thus no negative impact observed due to project activity.

The project activity promotes environmental and socio-economic well-being as it results in zero GHG emissions due to installation and operation of clean, renewable energy technology for electricity generation. The report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” prepared by MNRE dated September 2013⁴ mentions that solar/Wind power project activity operations do not result in direct air pollution, noise pollution. Moreover, also as per the Central Pollution Control Board of India notification⁵ solar/wind project falls under White Category and are practically non-polluting. Assessment team checked and found this appropriate.

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/^{13/} 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 register is maintained at site as a part of ongoing communication with stakeholders in line with clause 3.16.17 of VCS Standard, version 4.3 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 no grievance was received. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate. CAR 03 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.

4.3 AFOLU-Specific Safeguards

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

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Means 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 CDM CPA-DD ^{4/}
Findings	CAR 04 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.

⁴ <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

⁵ <https://cpcb.nic.in/openpdf.php?id=TGF0ZXN0RmIsZS9MYXRlc3RfMTE4X0ZpbmFsX0RpcmVjdGlbnMucGRm>

Conclusion	As per the registered PD and applied methodology, Formula used to calculate achieved emission reduction is as follow; $ER_y = BE_y - PE_y - LE_y$ As per registered CPA-DD, the build margin and operating margin CO₂ emission factor of Indian grid is taken from Central Electricity Authority: CO₂ Emission Database CEA CO₂ Baseline database Version 07. Thus, $EF_{grid,BM,y} = 0.8588 \text{ tCO}_2/\text{MWh}$ $EF_{grid, OM, y} = 0.9842 \text{ tCO}_2/\text{MWh}$ & $EF_{grid,CM,y} = 0.9528 \text{ tCO}_2/\text{MWh}$ The baseline emissions are calculated as below, $BE_y = EG_{PJ, y} \times EF_{grid, CM, y}$ Where; BE_y: Baseline emissions in year y (tCO₂/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 CDM 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) In-line with equation 7 of applied methodology, ACM0002, v13.0.0 and considering the fact that the project activity is the installation of a new grid-connected renewable power plant/unit at a site where no renewable power plant was operated prior to the implementation of the project activity, then: $EG_{PJ, y} = EG_{facility, y}$ Where: 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_{facility, y} = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr) Monitored Parameters EG_{PJ,y} = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y. The value monitored is 38,705.422 MWh. The net electricity supplied to grid is cross checked with share certificate issued
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	by Joint meter reading or Credit Note provided by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) and invoices/sales record to confirm the consistency and found ok. The verification team has checked the entire monthly JMR reports for net electricity generated & supplied to the grid and crosschecked same with the invoices/^{11/} raised by PP towards State Utilities for the monitoring period. All values are found correct. All the parameters are monitored and recorded as per the monitoring plan in the MR. The calculations/measurement of net electricity supplied to grid is under purview of state electricity board and the PP/Project activity owner has no role on it. PP/Project activity owner gets value of net electricity supplied to grid and hence this parameter is mentioned as a part of monitoring plan. The net electricity supplied to the grid by the project activity during the monitoring period is 38,705.422 MWh. All relevant monitoring parameters have been verified with regard to the appropriateness of the applied measurement/determination method, the correctness of the values applied for ER calculation, the accuracy, and applied QA/QC measures. Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors. BE_y (baseline emissions), tCO₂e BE_y = 38,705.422 MWh * 0.9528 tCO₂e/MWh = 36,878 tCO₂e (round down values) As per applied methodology ACM0002 of version 13.0, the VCS PD, project emission is considered zero as the project activity involved wind power generation/^{16/}. PE_y (Project emission) = As per ACM0002 of version 13.0, all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected. As the project activity involved wind power project emissions (PE_y) are taken as zero. Leakage: As per ACM0002 of version 13.0, Leakage emissions are not considered for the project activity. Hence, ER_y = BE_y – PE_y = 36,878 – 0 = 36,878 tCO₂e (round down values) Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the approved VCS PD Assessment team confirmed that the GHG emission reductions and removals have been quantified correctly in line with the approved VCS.
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4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	The verification team checked the Calibration details of the monitoring meters with the calibration certificates.
Findings	CAR 05 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.
Conclusion	Assessment team has checked calibration certificates and found that meters are calibrated and calibration is valid for current monitoring period. The calibration frequency mentioned in registered CDM CPA-DDVCS PD is annual. however, the concerned authority has carried out calibration earlier which is acceptable. Meters are calibrated as per the standard procedures and documents for the same are maintained throughout. The responsibilities and authorities of project management, data handling and recording, measurement methods and QA/QC procedure have been systematically established and formalized and the same was verified during the remote audit. Remote audit and interview with site personnel also confirms that the operational and organizational chart as mentioned in registered CDM CPA-DD is as per the site practice and thus assessment team confirms that the details are correct. The shutdown / break down reports/^{15/} are checked and found that the plant undergone scheduled maintenance and break down. Assessment team checked the routine maintenance log book/^{15/} 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.

4.6 Non-Permanence Risk Analysis

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

5 VERIFICATION CONCLUSION

Applus+ Certification has been engaged^{/02/} by M/s. ReNew Wind Energy (Shivpur) Private Limited to perform the 4th Verification (01-January-2022 to 30-June-2022) of the “VASPET-II AND VASPET-III WIND POWER PROJECT, MAHARASHTRA”.

The project participants are responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project’s monitoring plan in the registered VCS PD ^{/5/} and the applied methodology ACM0002, version 13.0 ^{/16/}

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, VCS Standard Version 4.3 and VCS Program Guide Version 4.2. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. Further, the verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. No sampling procedure applied for document verifications. The entire documents checked/Power plant verification conducted to arrive at positive verification conclusions. The verification team can confirm that:

- the project is operated as planned and described in the project document;
- the monitoring plan is as per the applied methodology;
- the monitoring process in Monitoring Report is as per the CDM CPA-DDVCS PD ^{/4//5/};
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A Reasonable Level of assurance was achieved as planned, during verification process.
- Verification period: 01-January-2022 to 30-June-2022 (inclusive of both days)

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

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 30-June-2022	36,878	0	0	36,878
Total	36,878	0	0	36,878

APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED

No.	Author	Title	References to the document	Provider
1.	State Utility	Commissioning certificates of all WTGs.	Commissioning of the wind power project	PP
2.	Applus	Contract of the project participant with the DOE. Ref. No. A+SH_SYST_TQC_VCS_VER_18022	8-July-2022	PP
3.	NA	The operational lifetime of the project activity from the manufacturer (Technical specifications)	Manufacturer technical specifications	PP
4.	NA	Registered CDM CPA-DD ⁶ and validation report	https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/H8ZL9NPDCF0B76JQM5XVTGKI1YU4AO/view	PP
5.	NA	Registered VCS PD and validation report	https://registry.terra.org/app/projectDetail/VCS/1404	PP
6.	NA	Initial Monitoring report Version 01 Final Monitoring report Version 03	16-August-2022 10-October-2022	PP
7.	NA	Initial Emission reduction sheet version 01 Final Emission reduction sheet version 02	16-August-2022 09-September-2022	PP
8.	PP	O & M Agreement	-	PP
9.	NA	Tools/ guidelines used in the project activity - Glossary of CDM terms version 07 - VCS standard Version 4.3 - VCS Program Guide 4.2 - VCS verification report template version 4.1 - VCS Monitoring Report Template, Version 4.1		UNFCCC & VERRA
10.	State Utility for share certificate s, PP for invoice	Joint Meter Reading/Credit Note and Invoices		PP

⁶ https://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/SODAMYVG9ROKQ146BFWJPT82Z7L3IN/view

No.	Author	Title	References to the document	Provider
11.	PP	Declaration regarding no participation in other GHG program for the concerned monitoring period	31-August-2022	PP
12.	NA	Calibration details of the project activity undergoing verification	Calibration certificates	PP
13.	NA	Grievance Register maintained at site	-	PP
14.	UNFCCC	CDM validation and verification standard for project activities, Version 03.0	-	UNFCCC
15.	PP	Shutdown details for the Project Activity Maintenance log book	-	PP
16.	UNFCCC	CDM methodology ACM0002	version 13.0	UNFCCC
17.	Suzlon	Technical datasheet for WTG		PP
18.	PP	Photographs of WTGs, Energy meters		PP
19.	PP	Power Purchase Agreement	-	PP
20.	VERRA	Previous verification reports	https://registry.terra.org/app/projectDetail/VCS/1404	VERRA

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

Table 1. Remaining FAR from validation and/or previous verification

FAR ID	XX	Section no.		Date : DD-Month-YYYY
Description of FAR				
There is no FAR from the validation/previous verification of the project activity				
Project participant response				Date : DD-Month-YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD-Month-YYYY
NA				

Table 2. CL from this verification

CL ID	00	Section no.		Date: 24-August-2022
Description of CL				
NA				
Project participant response				Date: 14-September-2022
NA.				
Documentation provided by project participant				
NA				
DOE assessment				Date: 14-September-2022
NA				

Table 3. CAR from this verification:

CAR ID	01	Section no.	4.1	Date: 24-August-2022
Description of CAR				
During review of monitoring report following inconsistencies observed:				
1. Section 1.1, of monitoring report is found not inline with the VCS MR template v 4.1. Thus, corrective action sought. 2. PP requested to submit copies of technical specifications of WTGs, PPA, O&M agreement & Breakdown-sheet, of the project activity. Kindly submit. 3. PP has mentioned commissioning date of project activity in section 1.1 of monitoring report, however to verify the same, supporting documents is missing. PP is requested to submit it to assessment team. Kindly submit. 4. Table 1 given for Sustainable Development Contributions in Section 1.11 is not inline with MR Template Guidelines V4.1. Thus, corrective action sought.				
Project participant response				Date: 09-September-2022

1. Section 1.1 of Monitoring Report has been corrected as per VCS MR template guidelines.
2. Technical specifications of WTGs, PPA, O&M agreement & Breakdown-sheet have been provided to assessment team.
3. Commissioning Certificate of WTGs have been submitted to assessment team.
4. Sustainable Development Contribution parameters are not applicable upto 2025. Hence, the table has been kept blank.
Documentation provided by project participant
Revised Monitoring Report, Technical specifications of WTGs, PPA, O&M agreement, Breakdown-sheet, Commissioning Certificate of WTGs.
DOE assessment Date: 14-September-2022
1. PP has corrected Section 1.1 of Monitoring Report as per VCS MR template guidelines V 4.1 in Revised Monitoring Report. Thus, CAR is Closed .
2. PP has provided Technical specifications of WTGs, PPA, O&M agreement & Breakdown-sheet to the assessment team and it is found correct. Thus, CAR is Closed .
3. PP has submitted the commissioning certificate for the mentioned commissioning date of project activity in section 1.1 of monitoring report to the assessment team and is found correct and consistent. Thus, CAR is closed .
4. Sustainable Development Contribution parameters are not applicable upto 2025. Hence, the Table 1 given for Sustainable Development Contributions in Section 1.11 is kept blank. Thus, accepted. CAR is Closed .

CAR ID	02	Section no.	4.1	Date: 24-August-2022
Description of CAR				
PP is requested to submit an undertaking for no double counting for current monitoring period and for project activity is participated in other GHG program other than VCS.				
Project participant response				Date: 09-September-2022
Undertaking for no double counting for current monitoring period has been submitted to assessment team.				
Documentation provided by project participant				
Declaration regarding double counting.				
DOE assessment				Date: 14-September-2022
PP has submitted the undertaking letter for no any double counting for current monitoring period dated 31-August-2022 and for project activity PP not claiming any ERs other than VCS verified by assessment team. Thus, CAR is closed .				

CAR ID	03	Section no.	4.2.2	Date: 24-August-2022
Description of CAR				
PP requested to submit records for ongoing local stakeholder consultation including grievance register etc. to assessment team.				
Project participant response				Date: 09-September-2022
Grievance register has been submitted to assessment team.				
Documentation provided by project participant				
Grievance register				
DOE assessment				Date: 14-September-2022
PP has submitted Grievance Registers of the all units of the project activity. Assessment team found no major grievances has been made by local stakeholders during current monitoring period. Thus, CAR is closed .				

Accuracy of GHG Emission Reduction and Removal Calculation

CAR ID	04	Section no.	4.4	Date: 24-August-2022
Description of CAR				

PP is requested to submit all supporting documents for all the monitoring parameters and monitored values of the project activity to assessment team.	
Project participant response	Date: 09-September-2022
JMR and invoices has been submitted as supporting of monitoring parameters to the assessment team.	
Documentation provided by project participant	
JMR and Invoices.	
DOE assessment	Date: 14-September-2022
PP has submitted JMR and invoices as supporting of monitoring parameters to the assessment team and the values are found correct and conservative. Thus, CAR is Closed .	

Quality of Evidence to Determine GHG Emission Reductions and Removals

CAR ID	05	Section no.	4.5	Date: 24-August-2022
Description of CAR				
In order to verify the calibration details mentioned in Appendix II of MR Version 1, Dated 16-August-2022, PP is requested to submit the copies of calibration certificates covering complete monitoring period to the assessment team.				
Project participant response			Date: 09-September-2022	
Calibration Certificates have been submitted to assessment team.				
Documentation provided by project participant				
Calibration Certificates of monitoring meters				
DOE assessment			Date: 14-September-2022	
PP has provided Calibration certificates for main and check meters covering complete monitoring period to verify the calibration details mentioned in Appendix II of the Revised Monitoring Report Version-02 dated 09-September-2022 to the verification team, and it is found correct and consistent with the MR. Thus accepted, CAR is closed.				

APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Lead Auditor/Technical Expert	OR	PANKAJ	KUMAR	TQC-Outsourced entity	Yes	No	Yes	Yes

Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer (TR) / Technical Expert (TE)	EI	Meesa	Srikanth	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustin	Applus+ Certification

Short CVs of the Team:

1. **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. Pankaj Kumar is based in Patna, India. Mr. Pankaj Kumar may participate as part of the Audit Team as Lead Auditor and Technical Expert for the assessment.

2. **Mr. Srikanth Meesa** is a climate change professional with more than 16 years of experience in the fields of climate change, GHG auditing, carbon footprint assessments, water and energy audits, scope-3 emissions, net zero strategies, sustainability & ESG sectors and water and wastewater treatment sectors. He has completed his masters in Environmental Engineering & Management from I.I.T Delhi and Bachelors in Civil Engineering from Osmania University. Furthermore, he has extensive experience i.e., more than 14 years on the auditing of CDM, VERRA, GS, JCM projects of various sectoral scopes across the world. He has worked with reputed certification bodies such as TUV NORD, DNVGL, TUV SUD and LR. He also has consulting experience on sustainability reports & road-maps, stakeholder consultation and LCA studies while working at Thinkstep (Now called Sphera). Currently, he is associated with Global Green Solutionz and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes. Mr. Srikanth Meesa is based at Hyderabad, India. Mr. Srikanth Meesa may participate review team.

APPENDIX 4: ABBREVIATIONS

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
VER	Verified Emission Reduction(s)
CEA	Central Electricity Authority
CL	Clarification request
CM	Combined Margin
CMS	Central Monitoring system
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DGR	Daily Generation Report
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming potential
PP	Project Participant
PLF	Plant Load Factor
MR	Monitoring Report
MSDCL	Maharashtra State Electricity Distribution Co. Ltd.
JMR	Joint Metering Report
PPA	Power Purchase Agreement
WTG	Wind Turbine Generator
VCS	Voluntary Carbon Standard
VVB	Validation and Verification Body

APPENDIX 5: CALIBRATION DETAILS

FEEDER #	STATUS	S. NO.	ACCURACY CLASS	DOC 2021-22	VALIDITY
01	Main	13769363	0.2s	23-September-2021	22September-2022
	Check	02797655	0.2s	23-September-2021	22September-2022
02	Main	13813570	0.2s	28-September-2021	27-September-2022
	Check	13813547	0.2s	28-September-2021	27-September-2022
06	Main	13813551	0.2s	28-September-2021	27-September-2022
	Check	X1350784	0.2s	28-September-2021	27-September-2022
07	Main	15687854	0.2s	28-September-2021	27-September-2022
	Check	14953662	0.2s	28-September-2021	27-September-2022

APPENDIX 6: BREAKDOWN DETAILS

DATE	WTG	Total Duration (hrs)
02-February-22	VASP-142	24.00
18-February-22	VASP-237	24.00
04-March-22	VASP-III-384v	24.00
05-March-22	VASP 21	22.45
06-March-22	VASP III-689	16.00
04-April-22	VASP-III-26	23.00
28-April-22	VASP-696	24.00
12-May-22	VASP-92	15.00
21-May-22	VASP-142	18.00
26-May-22	VASP-15	17.50
30-May-22	VASP-510	24.00
07-June-22	VASP-III-424	24.00
09-June-22	VASP-III-424	23.85
17-June-22	VASP-III-689	23.65
18-June-22	VASP III-105	19.00
24-June-22	RESVP-31	24.00