

Project Verification Report

2021

COVER PAGE	
Project Verification Report Form (VR)	
BASIC INFORMATION	
Name of approved UCR Project Verifier / Reference No.	Enviance Services Private Limited
Type of Accreditation	☐ CDM or other GHG Accreditation ☒ ISO 14065 Accreditation
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	01 Energy industries (Renewable/Non-Renewable Sources)
Validity of UCR approval of Verifier	30/09/2027
Completion date of this VR	11/03/2026
Title of the project activity	49.6 MW Wind Project by Torrent Green Energy Pvt Ltd in Gujarat
Project reference no. (as provided by UCR Program)	UCR 544
Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	Vivid Emissions Reductions Universal Pvt. Ltd.
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	Name: Lokesh Jain Email ID – lokesh.jain@viviidgreen.com
Country where project is located	India
Applied methodologies (approved methodologies by UCR Standard used)	ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources - Version 22.0
GHG Sectoral scopes linked to the applied methodologies	01 Energy industries (Renewable/Non-Renewable Sources)
Project Verification Criteria:	☒ UCR Standard ☒ Applicable

Mandatory requirements to be assessed	Approved Methodology ☒ Applicable Legal requirements /rules of host country ☒ Eligibility of the Project Type ☒ Start date of the Project activity ☒ Meet applicability conditions in the applied methodology ☒ Credible Baseline ☒ Do No Harm Test ☒ Emission Reduction calculations ☒ Monitoring Report ☒ No GHG Double Counting ☐ Others (please mention below)
Project Verification Criteria: Optional requirements to be assessed	☒ Environmental Safeguards Standard and do-no-harm criteria ☒ Social Safeguards Standard do-no-harm criteria

	applicability conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively. ☒ The Project Activity is likely to generate GHG emission reductions amounting to the estimated 66,784 tCO_{2e} annually, as indicated in the PCN, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3. ☒ The Project Activity is not likely to cause any net-harm to the environment and/or society ☒ The Project Activity complies with all the applicable UCR rules¹ and therefore recommends UCR Program to register the Project activity with above mentioned labels.
Project Verification Report, reference number and date of approval	Verification Report UCR Reference number: 544 Date of approval: 06-05-2026

¹https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documents/UCRtermsandconditionsMay2025Ver11_230525172325112351.pdf

Name of the authorised personnel of UCR Project Verifier and his/her signature with date



Vidhya Muralikrishna
Quality Manager
Date: 06-05-2026

PROJECT VERIFICATION REPORT

Executive summary

The project activity is titled- “49.6 MW Wind Project by Torrent Green Energy Pvt Ltd in Gujarat”. It is a wind-power Project which is located in the Lalpur Village, Jamnagar District of Gujarat in India. It consists of 62 Wind Turbine Generators (WTGs), each with a capacity of 800 kW, efficiently harnessing wind energy for sustainable electricity production. The project activity is a new 49.6 MW wind power project, which consists of 62 machines of E-53 type Wind Energy Converters (WECs) of 800 KW capacities each.

The E-53 is a medium-capacity wind turbine manufactured by Enercon, with a rated power output of 800 kW. It uses direct-drive (gearless) technology, which increases efficiency and reduces maintenance needs. The cut-in speed is low (3.0 m/s), making it suitable for moderate wind regions, while its cut-out speed is 34 m/s, and it can survive wind speeds up to 59.5 m/s, showing strong design resilience.

The project is a renewable wind energy initiative developed by Torrent Green Energy Pvt Ltd (TGPL), dedicated to generating electricity through wind power. Enercon is the equipment supplier and the operations and maintenance contractor for the Project.

The project involves the supply, erection, commissioning, and operation of these machines, managed by Enercon, which serves as the equipment supplier and Operation and Maintenance contractor.

The wind farm generates approximately **382,262 MWh** of clean electricity in the current monitoring period. Torrent Power Limited - Generation, a division of Torrent Power Limited, (TPL-G) and Torrent Power Limited - Distribution, a division of Torrent Power Limited (TPL-D) have entered into a power purchasing agreement on 21st December 2011, for sale of wind power generated from the Project by TPL-G to TPL-D, which is part of the INDIAN (Northern, Eastern, Western and North Eastern) grid (now merged in the integrated Indian grid) in India, under a long-term power purchase agreement (PPA).

The expected operational lifetime of the project is for 25 years. Addressing the energy demand-supply gap in Gujarat and supporting the region's sustainable growth.

The first WEC under the project activity was commissioned on 04/02/2012 and the last WEC under the project activity was commissioned on 14/03/2012. The project has been operational since the earliest commissioning date.

The project activity is registered under the Clean Development Mechanism (CDM) project with registration number 8324². The crediting period of this project under CDM is 23/11/2012 to 22/11/2019. PP seeks verification under UCR from 01/12/2019 onwards, i.e., crediting period for UCR starts from 01/12/2019 to 31/12/2024. Hence, there is no double counting for the said project activity.

² [CDM 8324](#)

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The project activity consists of 62 machines of E-53 type Wind Energy Converters (WECs) of 800 KW capacities each.

Commissioning dates of the project activity are mentioned in the table below:

Sr.no	Loc No	Date of Commissioning
1	450	04-Feb-12
2	454	04-Feb-12
3	393	04-Feb-12
4	451	04-Feb-12
5	452	04-Feb-12
6	455	04-Feb-12
7	456	04-Feb-12
8	458	04-Feb-12
9	459	04-Feb-12
10	411	07-Feb-12
11	407	09-Feb-12
12	416	09-Feb-12
13	420	09-Feb-12
14	396	09-Feb-12
15	382	09-Feb-12
16	383	09-Feb-12
17	401	09-Feb-12
18	402	09-Feb-12
19	403	13-Feb-12
20	405	13-Feb-12
21	406	13-Feb-12
22	408	13-Feb-12
23	409	13-Feb-12
24	412	13-Feb-12
25	417	13-Feb-12
26	418	13-Feb-12
27	419	13-Feb-12
28	376	13-Feb-12
29	377	13-Feb-12
30	278	18-Feb-12
31	289	18-Feb-12
32	74	18-Feb-12
33	375	18-Feb-12
34	225	21-Feb-12

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35	265	21-Feb-12
36	266	03-Mar-12
37	267	03-Mar-12
38	269	03-Mar-12
39	270	03-Mar-12
40	272	03-Mar-12
41	274	05-Mar-12
42	275	03-Mar-12
43	276	03-Mar-12
44	277	03-Mar-12
45	279	05-Mar-12
46	280	03-Mar-12
47	281	03-Mar-12
48	285	03-Mar-12
49	287	05-Mar-12
50	288	05-Mar-12
51	290	05-Mar-12
52	291	05-Mar-12
53	226	12-Mar-12
54	227	12-Mar-12
55	228	12-Mar-12
56	229	12-Mar-12
57	230	12-Mar-12
58	231	12-Mar-12
59	232	12-Mar-12
60	233	14-Mar-12
61	234	14-Mar-12
62	235	12-Mar-12

Geo Co-ordinates of the project activity are mentioned in the table below:

Sr no	Location No.	Date of commissioning	Site	Taluka, District	Latitude	Longitude
1	450	04-Feb-12	BHANGOL-LALPUR	JAMNAGAR	22.06730	69.97187
2	454	04-Feb-12	BHANGOL-LALPUR	JAMNAGAR	22.05489	69.95476

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3	393	04-Feb-12	BHANGOL - LALPUR	JAMNAGAR	22.08021	69.92147
4	451	04-Feb-12	BHANGOL- LALPUR	JAMNAGAR	22.06468	69.96755
5	452	04-Feb-12	BHANGOL- LALPUR	JAMNAGAR	22.06639	69.96304
6	455	04-Feb-12	BHANGOL- LALPUR	JAMNAGAR	22.05361	69.95536
7	456	04-Feb-12	BHANGOL- LALPUR	JAMNAGAR	22.05220	69.95606
8	458	04-Feb-12	BHANGOL- LALPUR	JAMNAGAR	22.04847	69.96465
9	459	04-Feb-12	BHANGOL- LALPUR	JAMNAGAR	22.04747	69.96883
10	411	07-Feb-12	BHANGOL- LALPUR	JAMNAGAR	22.12609	69.95098
11	407	09-Feb-12	KABARKA- LALPUR	JAMNAGAR	22.12365	69.93789
12	416	09-Feb-12	KABARKA- LALPUR	JAMNAGAR	22.11671	69.95467
13	420	09-Feb-12	KABARKA- LALPUR	JAMNAGAR	22.11062	69.95942
14	396	09-Feb-12	KABARKA- LALPUR	JAMNAGAR	22.08981	69.93216
15	382	09-Feb-12	KABARKA- LALPUR	JAMNAGAR	22.11259	69.91604
16	383	09-Feb-12	KABARKA- LALPUR	JAMNAGAR	22.11240	69.91094

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17	401	09-Feb-12	MORZAR-LALPUR	JAMNAGAR	22.09837	69.94570
18	402	09-Feb-12	MORZAR-LALPUR	JAMNAGAR	22.10050	69.94515
19	403	13-Feb-12	BHANGOL-LALPUR	JAMNAGAR	22.10139	69.94186
20	405	13-Feb-12	MORZAR-LALPUR	JAMNAGAR	22.10845	69.94110
21	406	13-Feb-12	MORZAR-LALPUR	JAMNAGAR	22.11593	69.93916
22	408	13-Feb-12	MORZAR-LALPUR	JAMNAGAR	22.12581	69.93789
23	409	13-Feb-12	CHOKHANDA-LALPUR	JAMNAGAR	22.13046	69.93232
24	412	13-Feb-12	CHOKHANDA-LALPUR	JAMNAGAR	22.12471	69.95315
25	417	13-Feb-12	SHEDHAKHAI-LALPUR	JAMNAGAR	22.11462	69.95416
26	418	13-Feb-12	SHEDHAKHAI-LALPUR	JAMNAGAR	22.11387	69.95732
27	419	13-Feb-12	SHEDHAKHAI-LALPUR	JAMNAGAR	22.11199	69.95909
28	376	13-Feb-12	SHEDHAKHAI-LALPUR	JAMNAGAR	22.13699	69.89329
29	377	13-Feb-12	SHEDHAKHAI-LALPUR	JAMNAGAR	22.13530	69.89838
30	278	18-Feb-12	LALPUR	JAMNAGAR	22.04014	69.82854

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31	289	18-Feb-12	LALPUR	JAMNAGAR	22.02873	69.82609
32	74	18-Feb-12	LALPUR	JAMNAGAR	22.13756	69.89870
33	375	18-Feb-12	LALPUR	JAMNAGAR	22.13278	69.89324
34	225	21-Feb-12	LALPUR	JAMNAGAR	22.10672	69.82444
35	265	21-Feb-12	LALPUR	JAMNAGAR	22.03720	69.76488
36	266	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03686	69.77392
37	267	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03983	69.77472
38	269	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.04858	69.78328
39	270	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.05351	69.78093
40	272	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03912	69.79825
41	274	05-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03631	69.80739
42	275	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03568	69.80992
43	276	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.04201	69.80974
44	277	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.04494	69.80752

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45	279	05-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03822	69.83055
46	280	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03616	69.82995
47	281	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03608	69.83354
48	285	03-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.03201	69.84069
49	287	05-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.02868	69.83137
50	288	05-Mar-12	DHARAMPUR-LALPUR	JAMNAGAR	22.02511	69.83066
51	290	05-Mar-12	DHARAMPUR-LALPUR	JAMNAGAR	22.01323	69.81240
52	291	05-Mar-12	DHARAMPUR-LALPUR	JAMNAGAR	22.01100	69.81390
53	226	12-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.10534	69.82734
54	227	12-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.10316	69.82714
55	228	12-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.10097	69.82770
56	229	12-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.09871	69.82834
57	230	12-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.09636	69.82555
58	231	12-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.10932	69.83634
59	232	12-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.10801	69.84048
60	233	14-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.10622	69.84137

61	234	14-Mar-12	GHUNDA-LALPUR	JAMNAGAR	22.10168	69.84241
62	235	12-Mar-12	TEBHADA-LALPUR	JAMNAGAR	22.08902	69.82381

Proposed wind power project has evolved as a result of the policies of Government of India and Government of Gujarat, which encourages energy development from renewable sources. These policies have given fresh impetus to wind power generation.

The Project Activity is a greenfield wind project and the generated electricity is supplied to the state electricity utility. Addressing the energy demand-supply gap in Gujarat and supporting the region's sustainable growth. Torrent Power Limited - Generation, a division of Torrent Power Limited, (TPL-G) and Torrent Power Limited - Distribution, a division of Torrent Power Limited (TPL-D) have entered into a power purchasing agreement on 21st December 2011, for sale of wind power generated from the Project by TPL-G to TPL-D. The project activity consists of 62 WEGs (0.8 MW each) of Enercon make E-53 model Wind Energy Converters (WECs) with internal electrical lines connecting the project activity with local evacuation facility, set up by Torrent in India. These wind turbines convert wind energy into electricity using synchronous generators, which are manufactured at Enercon and are spread across Lalpur village in Jamnagar district in the state of Gujarat in India. The project substation, 220 kV Tebhda at Lalpur, Jamnagar district, Gujarat, is designated for evacuating the electricity generated by the project to the grid system and for facilitating the interconnection between the transmission lines originating from the project and the grid network.

Plant using advanced vacuum impregnation technology for better insulation and durability. The turbines have rotor blades, a nacelle with the generator and control systems, a tower, and a concrete foundation. The electricity generated is fed into the Indian grid through transformers. Without this project, the same amount of electricity would come from fossil fuel-based power plants, which is the baseline scenario. This renewable energy project reduces emissions and supports local manufacturing through technology transfer.

The average lifetime of the WEG is around 25 years as per the industry standards. As per DPR plant load factor is of 20.60%. The project being a renewable energy generation activity, leads to reduction in fossil fuel dominated electricity generation from the Indian grid.

The core objective of this project activity is to displace an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid. The estimated lifetime of the project activity is considered as 25 years for wind technology. In the Pre- project scenario the entire electricity, consumed by the customers or delivered to the grid by, would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources.

The project activity consists 62 WEGs (0.8 MW) of Enercon make E-53 model. This project generates 49.6 MW power which is supplied to the state electricity utility delivered by the Project Proponent. The applied technology is one of the most environment friendly technologies available as the operation of the wind power plant does not emit any GHGs or any other harmful gases unlike the operation of conventional power plant. The project activity has used the reliable and proven technology to ensure that an environmentally safe and sound technology has been implemented.

The main component of this project activity is wind turbine which consists of components like main tower, blades, nacelle, hub, main shaft, gear box, bearing and housing, brake and generator. The generation of power from wind turbines is a clean technology as there is no fossil fuel-fired or no GHG gases are emitted during the process. Thus, project activity leads to a reduction the GHG emissions as it displaces power from fossil fuel-based electricity generation in the regional grid. Since the project activity generates electricity through wind energy, it will not cause any negative impact on the environment and thereby contributes to climate change mitigation efforts.

The project activity also contributes to SDG goals 3, 4, 6, 7,8, 11 and 13.

The first crediting period of the project activity in UCR is 05 years, 01 month in which total estimated electricity generation is 81,316 MWh annually and the total GHG emission reduction estimated is 66,784 tCO₂e annually.

The electricity generation for the current monitoring period is 382,262 MWh and total GHG emission reduction is 333,840 tCO₂e.

Scope of Verification

The scope of the services for the project is to perform Project Verification of concerned Project Activity. The scope of verification is to assess the claims and assumptions made in the Project Concept Note (PCN) and Monitoring Report (MR) against the UCR criteria, including but not limited to, UCR program verification guidance document, UCR Standard, UCR Program Manual, and related rules and guidelines established under Program process.

Verification Process and Methodology

The verification process was undertaken by a competent verification team and involved the following,

- Desk review of documents and evidence submitted in context of the reference rules and guidelines issued by UCR,
- Undertaking/conducting site visit/remote audit, interview or interactions with the representative of the project owners/representatives,
- Reporting audit findings with respect to clarifications and non-conformities and the closure of the findings, as appropriate and preparing a draft verification opinion based on the auditing findings and conclusions
- Finalization of the verification opinion (this report)

Desk/Document review

A detailed desk review of the PCN, MR, Methodology and all other associated documentation and references took place in advance of the site visit, and additional documents that were not available for the desk review were requested for review during the site visit. Additional information can be required to complete the verification, which may be obtained from other public and reliable sources or through telephone and face to face interviews with key stakeholders (including the project developers and where necessary, government and NGO representatives in the host country).

A list of all documents reviewed or referred to in the course of this verification is included in Appendix 3 below.

Follow up interviews/site visit

The verifier conducted remote audit and had requested for site photographs, short videos. A remote interview was conducted with the project owners and stakeholders.

Conclusion

Based on the work performed, the verifier concludes that in the project activity “49.6 MW Wind Project by Torrent Green Energy Pvt Ltd in Gujarat”, the information and data presented in the MR version 1.1 dated 09/02/2026 is in line with the Project Concept Note Version 1.1 date 09/02/2026 and meets all relevant requirements of the UCR for UCR project activities. The UCR project activity correctly applies the methodology “ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0” leading to result in real, measurable and long-term emission reductions achieved for the current monitoring period.

For the current monitoring period, verified emission reductions achieved by the project activity were as below;

Start date of monitoring period	01/12/2019
End date of monitoring period	31/12/2024
Emission reductions achieved	333,840 tCO ₂ eq

Project Verification team, technical reviewer and approver

Project Verification team

No.	Role	Last name	First name	Affiliation (e.g. name of central or other office of UCR Project Verifier or outsourced entity)	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Team Leader/ Lead Verifier	Mahajan	Swati	Enviance Services Private Limited	Yes	Yes	Yes
2.	Validator- Verifier/Technical Expert	Singh	Ritu	Enviance Services Private Limited	Yes	Yes	Yes

Technical reviewer and approver of the Project Verification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of UCR Project Verifier or outsourced entity)
1.	Technical reviewer	Internal	Kumar	Pankaj	Enviance Services Private Limited
2.	Approver	Internal	Krishna	Vidhya Murali	Enviance Services Private Limited

Means of Project Verification

Desk/document review

A detailed desk review of the PCN, MR, methodology and all other associated documentation and references took place in advance of the remote audit, and additional documents that were not available for the desk review were requested for review during the remote audit. Additional information can be required to complete the verification, which may be obtained from other public and reliable sources or through telephone and face-to face interviews with key stakeholders (including the project developers and where necessary, Government and NGO representatives in the host country).

A list of all documents reviewed or referred to in the course of this verification is included in Appendix 3 below.

Off-site inspection

Date of off-site inspection: 09/09/2025			
No.	Activity performed Off-Site	Site location	Date
1.	a) An assessment of the implementation and operation of the project activity as per the PCN and UCR requirements b) Verification of the project design, as documented is sound and reasonable, and meets the identified criteria of UCR Standard Requirements and associated guidance c) Assessment to conformance with the certification criteria as laid out in the UCR Standards; d) Evaluation of the conformance with the certification scope, including the GHG project and baseline scenarios, additionality; GHG sources, sinks, and reservoirs; and the physical infrastructure, activities, technologies and processes of the GHG project to the requirements of the UCR; e) Evaluation of the calculation of GHG emissions, including the correctness and transparency of formulae and factors used; assumptions related to estimating GHG emission reductions; and uncertainties; and determination whether the project could reasonably be expected to achieve the estimated GHG reduction/removals. f) Review of information flows for generating, aggregating and reporting of the parameters to be monitored g) To confirm that the operational and data collection procedures can be implemented in accordance with the Monitoring Plan h) Cross-check of information provided in the submitted documents and data from other sources available at site i) Review of calculations and assumptions made in determining the GHG data and estimated ERs, and an identification of QA/QC procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters Interviews of local Stakeholders	Located at Lalpur Village, in Jamnagar district in the state of Gujarat, India	09/09/2025

Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Patel	Vidhay	Torrent Energy	09/09/2025	Project Implementation, Monitoring plan, Project Boundary, Eligibility criteria, Host country requirements, Emission reduction calculations Project implementation, monitoring, Local stakeholder consultation
2.	Singh	Mukesh Kumar			
3.	Pandya	Sandip			
4.	Kohli	Dhruv	Viviid emissions reductions universal private Ltd.		
5.	Darne	Minal			
6.	Solanki	Dharmesh	Local Stakeholders		
7.	Arka	Rakshit			
8.	Jadeja	Satyajeet			

Sampling approach

Not Applicable.

Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
Green House Gas (GHG)			
Identification and Eligibility of project type	-	-	-
General description of project activity	01	-	-
Application and selection of methodologies and standardized baselines	-	-	-
- Application of methodologies and standardized baselines	-	-	-
- Deviation from methodology and/or methodological tool	-	-	-
- Clarification on applicability of methodology, tool and/or standardized baseline	02	-	-
- Project boundary, sources and GHGs	-	-	-
- Baseline scenario	-	-	-
- Estimation of emission reductions or net anthropogenic removals	-	02	-
- Monitoring Report	01	-	-
Start date, crediting period and duration	-	01	-
Environmental impacts	-	-	-
Project Owner- Identification and communication	-	-	-
Others (please specify)	01	-	-
Total	05	03	-

Project Verification findings

Identification and eligibility of project type

Means of Project Verification	The project has an installation of a 62 WEGs (0.8 MW each) total 49.6 MW wind power capacity and hence it qualifies as a large-scale project. This is confirmed based on the commissioning certificates and technical specifications. Since the project is a large-scale project, it has applied approved CDM large scale methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. The Project owner has used valid MR form available at the UCR website for the preparation of MR for the current project activity. The project has prepared MR in line with UCR guidance and requirements.
Findings	No findings raised.
Conclusion	The UCR-approved format is used for description and the project meets the requirement of the UCR verification standard and UCR project standard. UCR project communication agreement was submitted to the verifier and the same has been verified. Methodology referenced and applied appropriately describing the project type. The eligibility of the project aggregator is verified using the UCR communication agreement, project correctly applies the verification standard, UCR project standard, and UCR regulations. The project activity is overall meeting the requirements of the UCR Verification standard and UCR project standard.

General description of project activity

Means of Project Verification

The project activity involves the operation of a 62 WEGs (0.8 MW each) total 49.6 MW large-scale wind power project and its commissioning date and power evacuation at the substation were verified through the commissioning certificate of the project. The power purchase agreement confirms the companies/entities involved in the agreement for purchase of electricity from the 49.6 MW (Gujarat State in India) project.

Assessment team conducted documentation review of the PCN against the UCR program verification standard version 2.0 and UCR CoU Standard (project eligibility criteria) version 7.0 and the UCR-PCN-FORM Version 1.0.

By checking the supporting documents, it is confirmed that the project is a greenfield wind power project, the project is located in Gujarat State in India. The approximate geo-coordinates of the project locations are mentioned below.

Details of Latitude &Longitude for the project site: -

Sr no	Location No.	Site	Taluka, District	Latitude	Longitude
1	450	BHANGOL-LALPUR	JAMNAGAR	22.06730	69.97187
2	454	BHANGOL-LALPUR	JAMNAGAR	22.05489	69.95476
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7	456	BHANGOL-LALPUR	JAMNAGAR	22.05220	69.95606
8	458	BHANGOL-LALPUR	JAMNAGAR	22.04847	69.96465
9	459	BHANGOL-LALPUR	JAMNAGAR	22.04747	69.96883
10	411	BHANGOL-LALPUR	JAMNAGAR	22.12609	69.95098
11	407	KABARKA-LALPUR	JAMNAGAR	22.12365	69.93789
12	416	KABARKA-LALPUR	JAMNAGAR	22.11671	69.95467
13	420	KABARKA-LALPUR	JAMNAGAR	22.11062	69.95942
14	396	KABARKA-LALPUR	JAMNAGAR	22.08981	69.93216

	15	382	KABARKA-LALPUR	JAMNAGAR	22.11259	69.91604
	16	383	KABARKA-LALPUR	JAMNAGAR	22.11240	69.91094
	17	401	MORZAR-LALPUR	JAMNAGAR	22.09837	69.94570
	18	402	MORZAR-LALPUR	JAMNAGAR	22.10050	69.94515
	19	403	BHANGOL-LALPUR	JAMNAGAR	22.10139	69.94186
	20	405	MORZAR-LALPUR	JAMNAGAR	22.10845	69.94110
	21	406	MORZAR-LALPUR	JAMNAGAR	22.11593	69.93916
	22	408	MORZAR-LALPUR	JAMNAGAR	22.12581	69.93789
	23	409	CHOKHANDA-LALPUR	JAMNAGAR	22.13046	69.93232
	24	412	CHOKHANDA-LALPUR	JAMNAGAR	22.12471	69.95315
	25	417	SHEDHAKHAI-LALPUR	JAMNAGAR	22.11462	69.95416
	26	418	SHEDHAKHAI-LALPUR	JAMNAGAR	22.11387	69.95732
	27	419	SHEDHAKHAI-LALPUR	JAMNAGAR	22.11199	69.95909
	28	376	SHEDHAKHAI-LALPUR	JAMNAGAR	22.13699	69.89329
	29	377	SHEDHAKHAI-LALPUR	JAMNAGAR	22.13530	69.89838
	30	278	LALPUR	JAMNAGAR	22.04014	69.82854
	31	289	LALPUR	JAMNAGAR	22.02873	69.82609
	32	74	LALPUR	JAMNAGAR	22.13756	69.89870
	33	375	LALPUR	JAMNAGAR	22.13278	69.89324
	34	225	LALPUR	JAMNAGAR	22.10672	69.82444
	35	265	LALPUR	JAMNAGAR	22.03720	69.76488
	36	266	TEBHADA-LALPUR	JAMNAGAR	22.03686	69.77392
	37	267	TEBHADA-LALPUR	JAMNAGAR	22.03983	69.77472
	38	269	TEBHADA-LALPUR	JAMNAGAR	22.04858	69.78328
	39	270	TEBHADA-LALPUR	JAMNAGAR	22.05351	69.78093
	40	272	TEBHADA-LALPUR	JAMNAGAR	22.03912	69.79825

	41	274	TEBHADA-LALPUR	JAMNAGAR	22.03631	69.80739
	42	275	TEBHADA-LALPUR	JAMNAGAR	22.03568	69.80992
	43	276	TEBHADA-LALPUR	JAMNAGAR	22.04201	69.80974
	44	277	TEBHADA-LALPUR	JAMNAGAR	22.04494	69.80752
	45	279	TEBHADA-LALPUR	JAMNAGAR	22.03822	69.83055
	46	280	TEBHADA-LALPUR	JAMNAGAR	22.03616	69.82995
	47	281	TEBHADA-LALPUR	JAMNAGAR	22.03608	69.83354
	48	285	TEBHADA-LALPUR	JAMNAGAR	22.03201	69.84069
	49	287	TEBHADA-LALPUR	JAMNAGAR	22.02868	69.83137
	50	288	DHARAMPUR-LALPUR	JAMNAGAR	22.02511	69.83066
	51	290	DHARAMPUR-LALPUR	JAMNAGAR	22.01323	69.81240
	52	291	DHARAMPUR-LALPUR	JAMNAGAR	22.01100	69.81390
	53	226	GHUNDA-LALPUR	JAMNAGAR	22.10534	69.82734
	54	227	GHUNDA-LALPUR	JAMNAGAR	22.10316	69.82714
	55	228	GHUNDA-LALPUR	JAMNAGAR	22.10097	69.82770
	56	229	GHUNDA-LALPUR	JAMNAGAR	22.09871	69.82834
	57	230	GHUNDA-LALPUR	JAMNAGAR	22.09636	69.82555
	58	231	GHUNDA-LALPUR	JAMNAGAR	22.10932	69.83634
	59	232	GHUNDA-LALPUR	JAMNAGAR	22.10801	69.84048
	60	233	GHUNDA-LALPUR	JAMNAGAR	22.10622	69.84137
	61	234	GHUNDA-LALPUR	JAMNAGAR	22.10168	69.84241
	62	235	TEBHADA-LALPUR	JAMNAGAR	22.08902	69.82381
	Assessment team performed an offsite inspection of project and confirmed that the location described in the PCN are accurate. The Project is a wind power project, to utilize wind energy to generate zero carbon emission electricity which is mainly dominated by fossil fuel power output. The project includes integrated power transmission mechanism, high performance rotor blades, dual speed asynchronous generator, microprocessor based fully automatic control system with					

	user friendly operation and central monitoring system. Quality, Safety and Health plan for construction, installation, commissioning and Operation & Maintenance. Microprocessor controlled high efficiency soft start. Active Yaw gear drives incorporating hydraulic yaw brakes.
Findings	CL 01 was raised and closed successfully. More information presented in the appendix below.
Conclusion	The description of the project activity is verified to be true based on the review of PCN, MR, Commissioning Certificate and power purchase agreement.

Application and selection of methodologies and standardized baselines

(.a.i) Application of methodology and standardized baselines

Means of Project Verification	The project has taken the reference of CDM methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. CDM website is referred to check the latest version of the methodology. For the applicability mentioned in the PCN and MR, technical Specification, and commissioning certificate.
Findings	No findings raised.
Conclusion	The methodology applied is appropriately meeting the requirements of UCR and its standardized baseline. The methodology version is correct and valid. The referenced methodology is applicable to project activity.

(.a.ii) Clarification on applicability of methodology, tool and/or standardized baseline

Means of Project Verification	The documents reviewed are CDM methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0, UCR Program standard, and UCR Verification Standard.
Findings	CL 03 and CL 04 were raised and closed successfully. More information presented in the appendix below.
Conclusion	The verification team confirms that all the applicability criteria set by the applied CDM methodology and its eligible tools are met. The relevant information against those criteria is also included in the PCN version 1.1 and MR version 1.1. The selected CDM methodology for the project activity is applicable.

(.a.iii) Project boundary, sources and GHGs

Means of Project Verification	Project owner has considered project boundary as per applicable methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0, "the spatial extent of this project activity includes the project site and all the power plants connected physically to the electricity system
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	(grid) that the power project is connected to." Review of PCN and MR confirms that project sites and Indian electricity grid system is considered as a project boundary which is appropriate.
Findings	No findings raised
Conclusion	The project boundary is correctly defined in the PCN and MR. GHG sources are correctly identified and reported. The project meets the requirements of UCR project standard, Verification standard and methodology requirements for a boundary, GHG sources.

(.a.iv) Baseline scenario

Means of Project Verification	As per the applied ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources - Version 22.0 the baseline scenario is as following: The baseline scenario is that if the project activity is the installation of a Greenfield power plant, the baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources to the grid. Remote audit conducted and document review showed that in absence of the project activity, the generated electricity would have been supplied by the Indian grid which is dominated by fossil fuel fired plants.
Findings	No findings raised.
Conclusion	The approved baseline methodology has been correctly applied to identify a realistic and credible baseline scenario, and the identified baseline scenario most reasonably represents what would occur in the absence of the proposed UCR project activity. All the assumption and data used by the project participants are listed in the PCN and/or supporting documents. All documentation relevant for establishing the baseline scenario are correctly quoted and interpreted in the PCN. Assumptions and data used in the identification of the baseline scenario are justified appropriately, supported by evidence and can be deemed reasonable.

(.a.v) Estimation of emission reductions or net anthropogenic removal

Means of Project Verification	The project verification team checked whether the equations and parameters used to calculate GHG emission reductions or net anthropogenic GHG removals for PCN and MR are in accordance with applied methodology. Project verification team checked section B.5 and C.5.1 of the PCN & MR respectively to confirm whether all formulae to calculate baseline emissions, project emission and leakage have been applied in line with the underlying methodology. The emission reduction calculation has been carried out as per the CDM methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0 As per the CDM approved ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0 paragraph 57, encompass solely the
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	CO₂ emissions stemming from electricity generation in power plants displaced by the project activity. The methodology operates on the assumption that any electricity generation exceeding baseline levels would have originated from established grid-connected power plants and the integration of new grid-connected power plants. $BE_y = EG_{PJ, y} \times EF_{grid, CM, y}$ Where; BE_y : Baseline emissions in year y (tCO₂/year) $EG_{PJ, y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the UCR project activity in year y (MWh/year) $EF_{grid, CM, y}$: Combined margin CO₂ emission factor for grid connected power generation in year y (tCO₂/MWh) A "grid emission factor" refers to a CO₂ emission factor (tCO₂/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.9 tCO₂/MWh for the 2013-2023 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2021, the combined margin emission factor calculated from CEA database in India results into higher emission than the default value. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach.³ Similarly, for the year 2024, a grid emission factor of 0.757 tCO₂/MWh is to be applied. These conservative factors are used to calculate emission reductions. In order to facilitate adoption of authentic baseline emissions data and in keeping with the principle of "conservativeness," all UCR Indian RE projects shall use the new conservative grid emission factor of 0.757 tCO₂/MWh in their emission reduction calculations for the 2024 vintage year. https://medium.com/@UniversalCarbonRegistry/ucr-cou-standard-update-2024-vintage-ucr-indian-grid-emission-factor-announced-ddb790cdc603 Project emissions: Regarding project emissions, ACM0002 version 22.0 specifies that only emissions related to fossil fuel combustion, emissions from the operation of geothermal power plants due to the release of non-condensable gases, and emissions from water reservoirs of hydroelectric plants should be taken into account. Since the project involves a wind power project, emissions from renewable energy plants are negligible $PE_y = 0$. Since wind power is a GHG emission free source of energy project emission considered as Zero for the project activity. Leakage Emissions: Leakage, as outlined in ACM0002 version 22.0, para 5.6, is considered to be zero as there is no transfer of energy-generating equipment in the project activity Hence ($LE_y = 0$). Emission reductions: As per approved ACM0002-Consolidated baseline methodology for grid-
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³ https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com/Documents/UCRStandardAug2024updatedVer7_020824191534797526.pdf

connected electricity generation from renewable sources -Version 22.0, emission reduction is estimated as difference between the baseline emission and project emission after factoring into leakage.

Thus, $ER_y = BE_y - PE_y - LE_y$

Where:

ER_y = Emission reductions in year y (t CO₂)

BE_y = Baseline Emissions in year y (t CO₂)

PE_y = Project emissions in year y (t CO₂)

LE_y = Leakage emissions in year y (t CO₂)

Therefore, $ER_y = BE_y$

The earliest commissioning date of the Project is 04/02/2012 when the first installation of the wind turbine was done and the last commissioning date is 14/03/2012.

The project activity is registered under the Clean Development Mechanism (CDM) project with registration number 8324⁴. The crediting period of this project under CDM is 23/11/2012 to 22/11/2019. PP seeks verification under UCR from 01/12/2019 onwards, i.e., crediting period for UCR starts from 01/12/2019.

For the ease of the calculation, duration of the crediting period in UCR is started from 01/12/2019 to 31/12/2024.

The estimated emission reductions are 66,784 CoUs/yr (66,784 tCO₂eq/yr)

Year	Net Generation	Baseline Emissions	Project Emissions	Leakage	Emission Reductions	EF
	MWh	(tCO ₂ e)	(tCO ₂ e)	(tCO ₂ e)	(tCO ₂ e)	(tCO ₂ /MWh)
01-12-2019-31-12-2019	7601.89	6841.00	0.00	0.00	6841.00	0.9
01/01/2020-01/12/2020	89506.18	80555.00	0.00	0.00	80555.00	0.9
01/01/2021-01/12/2021	89506.18	80555.00	0.00	0.00	80555.00	0.9
01/01/2022-01/12/2022	89506.18	80555.00	0.00	0.00	80555.00	0.9
01/01/2023-01/12/2023	89506.18	80555.00	0.00	0.00	80555.00	0.9
01/01/2024-01/12/2024	89506.18	67756.00	0.00	0.00	67756.00	0.757
01/01/2025-01/12/2025	89506.18	67756.00	0.00	0.00	67756.00	0.757
01/01/2026-01/12/2026	89506.18	67756.00	0.00	0.00	67756.00	0.757
01/01/2027-01/12/2027	89506.18	67756.00	0.00	0.00	67756.00	0.757
01/01/2028-01/12/2028	89506.18	67756.00	0.00	0.00	67756.00	0.757

⁴ [CDM 8324](#)

	Total Emission reduction	813157	667841	0	0	667841																																																																		
	Average Emission Reduction	81316	66,784	0	0	66,784																																																																		
The actual emission reduction achieved during the first CoU's period (01/12/2019 to 31/12/2024) as per the Project Activity: Actual Total baseline emission reductions (BEy)= 333,840 CoUs (333,840 tCO₂eq) <table> <tr> <th rowspan="2">Sr. No.</th><th rowspan="2">Year</th><th>Capacity</th><th>Total EGy ,Net Generation</th><th>Emission Factor</th><th>Baseline Emissions (BE)</th><th>Project Emissions (PE)</th><th>Emission Reductions</th></tr> <tr> <th>MW</th><th>kWh</th><th>tCO₂/MWh</th><th>tCO₂e</th><th>tCO₂e</th><th>tCO₂e</th></tr> <tr> <td>1</td><td>01-12-2019 to 31-12-2019</td><td rowspan="6">49.6</td><td>9,214.865</td><td>0.9</td><td>8,293</td><td>0</td><td>8293</td></tr> <tr> <td>2</td><td>01-01-2020 to 31-12-2020</td><td>74,624.192</td><td>0.9</td><td>67,161</td><td>0</td><td>67161</td></tr> <tr> <td>3</td><td>01-01-2021 to 31-12-2021</td><td>80,892.571</td><td>0.9</td><td>72,803</td><td>0</td><td>72803</td></tr> <tr> <td>4</td><td>01-01-2022 to 31-12-2022</td><td>74,966.255</td><td>0.9</td><td>67,469</td><td>0</td><td>67469</td></tr> <tr> <td>5</td><td>01-01-2023 to 31-12-2023</td><td>74,612.962</td><td>0.9</td><td>67,151</td><td>0</td><td>67151</td></tr> <tr> <td>6</td><td>01-01-2024 to 31-12-2024</td><td>67,951.993</td><td>0.75</td><td>50,963</td><td>0</td><td>50963</td></tr> <tr> <td></td><td>Total</td><td></td><td>382,262.838</td><td></td><td>333,840</td><td></td><td>333,840</td></tr> </table>								Sr. No.	Year	Capacity	Total EGy ,Net Generation	Emission Factor	Baseline Emissions (BE)	Project Emissions (PE)	Emission Reductions	MW	kWh	tCO ₂ /MWh	tCO ₂ e	tCO ₂ e	tCO ₂ e	1	01-12-2019 to 31-12-2019	49.6	9,214.865	0.9	8,293	0	8293	2	01-01-2020 to 31-12-2020	74,624.192	0.9	67,161	0	67161	3	01-01-2021 to 31-12-2021	80,892.571	0.9	72,803	0	72803	4	01-01-2022 to 31-12-2022	74,966.255	0.9	67,469	0	67469	5	01-01-2023 to 31-12-2023	74,612.962	0.9	67,151	0	67151	6	01-01-2024 to 31-12-2024	67,951.993	0.75	50,963	0	50963		Total		382,262.838		333,840		333,840
Sr. No.	Year	Capacity	Total EGy ,Net Generation	Emission Factor	Baseline Emissions (BE)	Project Emissions (PE)	Emission Reductions																																																																	
		MW	kWh	tCO ₂ /MWh	tCO ₂ e	tCO ₂ e	tCO ₂ e																																																																	
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Findings	CAR 01 and CAR 02 were raised and closed successfully. More information presented in the appendix below.																																																																							
Conclusion	In summary, the calculation of emission reductions was correctly demonstrated by the PP according to the methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. It is confirmed by the assessment team that: (a) All assumptions made for estimating GHG are listed in the PCN; (b) All documentation used by the project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PCN (c) All values used in the PCN including GWPs are considered reasonable in the context of the proposed UCR project activity; (d) The methodologies and, where applicable, the standardized baselines and the other methodological regulatory documents have been applied correctly to calculate baseline, project and leakage GHG emissions, as well as GHG emission reductions; (e) All estimates of the baseline GHG emissions can be replicated using the data and parameter values provided in the PCN;																																																																							

Means of Project Verification

Parameters determined- Ex-ante

The following parameters are determined ex-ante and verified by the verification team:

The baseline emission factor ($EF_{grid, y}$) of the project is reported to be determined ex-ante and would remain fixed for the crediting period. A "grid emission factor" refers to a CO₂ emission factor (tCO₂/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.9 tCO₂/MWh for the 2013-2023 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2021, the combined margin emission factor calculated from CEA database in India results into higher emission than the default value. Similarly, for the year 2024, a grid emission factor of 0.757 tCO₂/MWh is to be applied. These conservative factors are used to calculate emission reductions.

In order to facilitate adoption of authentic baseline emissions data and in keeping with the principle of "conservativeness," all UCR Indian RE projects shall use the new conservative grid emission factor of 0.757 tCO₂/MWh in their emission reduction calculations for the 2024 vintage year

Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach. The parameters applied in the calculation were validated by the verification team. The verification team confirms that all relevant parameters have been sufficiently considered and the values of the parameters are real, measurable and conservative.

Parameters monitored ex-post

According to the approved methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0, the following parameters will be monitored:

Parameter	Description
$EG_{pj,y}$	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y

The values of the parameters monitored were checked against submitted Joint Meter Readings and invoices and were found correct.

Meter Details:

CALIBRATION DATA TORRENT GREEN ENRGY PVT LTD						
Sr.no	Meter Type	Meter Sr. No.	Sub-station	Accuracy class	Make	Calibration Details
1	MAIN METER LINE 1	GJ-0947A	TEBHADA	0.2	L&T	12-01-2017 18-12-2020 08-05-2025
2	MAIN METER LINE 2	GJ-0950A	TEBHADA	0.2	L&T	12-01-2017 18-12-2020 08-05-2025
3	MAIN LINE	GJU-62417	TEBHADA	0.2	SECURE	12-01-2017

		CHECK METER					13-06-2021 08-05-2025
	4	MAIN LINE CHECK METER	GJU-62418	TEBHADA	0.2	SECURE	12-01-2017 13-06-2021 08-05-2025
There was no delay in calibration of meters for the current monitoring period. Calibration of meters was done as per the CEA regulations (meter_reg.pdf (cea.nic.in)). Management system and quality assurance The monitoring plan presented in the PCN complies with the requirements of the applicable methodology. The verification team has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found. The management system and quality assurance procedures have been reviewed by the verification team through document review and interviews with the project participant. The project participant would train all the monitoring staffs are trained against with related requirement; the training guidelines and monitoring manual are saved and verified. The monitoring plan outlines in the PCN includes: - Monitoring Organization - Monitoring apparatus and installation - Calibration - Data collection - Data Management system The submitted calibration certificates were checked and it was confirmed that the calibrations are conducted periodically as specified in the PCN i.e. at least once in 5 years.							
Findings	CL 05 was raised and closed successfully. More information presented in the appendix below.						
Conclusion	The verification team is convinced of compliance of the monitoring plan with the requirements of the monitoring methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. During the remote audit assessment, the verification team interviewed the PP that the monitoring arrangements described in the monitoring plan are feasible within the project design. The monitoring parameter reported in MR adequately represents the parameters relevant to emission reduction calculation. The calibration report ensures the accuracy of the data reported. The number of CoUs generation is calculated based on this accurately reported data. The calculation was done using an excel sheet where all the parameters were reported. The grid emission factor for electricity is considered as per UCR recommendation for Indian project. In the monitoring report, emission reduction calculations are correctly calculated and reported. The monitoring report meets the requirements of UCR project verification requirements.						

Start date, crediting period and duration

Means of Project Verification	The start date and crediting period of project activity was checked based on the commissioning certificate, PCN, MR and other documents provided.
Findings	CAR 03 was raised and closed successfully. More information presented in the appendix below.

Conclusion	The project has chosen crediting period start date in UCR as 01/12/2019. The crediting period is chosen as 01/12/2019 to 31/12/2024 and the crediting period for the current monitoring period is 01/12/2019 to 31/12/2024.
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Positive Environmental impacts

Means of Project Verification	PP has not claimed any separate positive environmental impact. The project being renewable energy project will reduce fossil fuel use through replacement of the same.
Findings	No findings raised
Conclusion	The project is a renewable energy project and reduces the environmental burden by reducing the dependence on fossil fuel-based power plants.

Project Owner- Identification and communication

Means of Project Verification	PCN, communication agreement, MR, commissioning certificate, power purchase agreement.
Findings	No findings raised.
Conclusion	The project owner was identified through a communication agreement signed between project owner and project aggregator. Commissioning certificates and Power Purchase Agreement were also verified and they clearly establish the project ownership. The identification and communication correctly meet the requirement of project verification and UCR project standard. Project owner: Torrent Green Energy Private Limited.

Positive Social Impact

Means of Project Verification	Project has provided temporary employment to local people during its installation and commissioning. Also post commissioning some of people have employed permanently and local people were engaged leading to social financial benefit to surrounding. Overall social impact of project implementation is positive on the surrounding area
Findings	No findings raised.
Conclusion	Project has overall positive social impact

Sustainable development aspects (if any)

Means of Project Verification	PP has claimed SDG Goals 3, 4, 6, 7, 8, 11 & 13. SDG 3 is good health and well-being. In this project activity a key social activity includes providing counselling and support to rural adolescent girls in villages around SUGEN, Dahej, and Indrad, specifically addressing menstrual hygiene and sanitation. This initiative not only promotes preventive healthcare but also empowers young girls with knowledge and dignity, reducing stigma and absenteeism from school due to menstruation-related issues. The same was verified through submitted documents of CSR activities. SDG 4 is quality education. This Project activity is promoting SDG4 by The Kendra's creation of a new library, housing over 300,000 handwritten manuscripts, 400,000 books, and a digital archive,
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	supports lifelong learning and access to knowledge. The Acharya Shri Kailassagarsuri Gyanmandir is a globally recognized research center for Jainism and Indology, providing resources for scholars, students, and the public. Initiatives like the Manuscriptology course further promote education in ancient languages and cultural preservation. The same was verified through submitted documents of CSR activities. SDG 6 is clean water & sanitation. In this project activity park maintenance work was carried out for Parimal Garden and eight other public parks under Phase I and Phase II, such as Sindhu Bhavan Park, Thaltej Park, Sabarmati Kids Park, and others. These green space developments help enhance urban biodiversity, promote community well-being, and support ecological restoration. The same was verified through submitted documents of CSR activities. SDG 7 is affordable and clean energy and it is verified during remote audit as the project is wind power plant. SDG 8 is decent work & economic growth and is verified by the supporting documents provided. SDG 11 is sustainable cities & communities. The Kendra's efforts to protect national heritage, art, and culture through its museum (Samrat Samprati Sangrahalaya) and preservation of Jain manuscripts contribute to safeguarding cultural heritage. The museum preserves rare Jain art, architecture, and artifacts, making cultural heritage accessible to the public. The same was verified through submitted documents of CSR activities. SDG 13 is climate action. These claims were checked on the basis of supporting documents, JMR & invoice, employment of the local people on the project site and emission reduction calculations respectively.
Findings	CL 02 was raised and closed successfully. More information presented in the appendix below.
Conclusion	The project has the capability to address SDG 3, 4, 6, 7, 8, 11 & 13.

Internal quality control

The verifier confirms that,

- Due professional care has been taken while reviewing the submitted document.
- There is no conflict of interest as the verifier has no other engagement with either the aggregator or project owner directly or indirectly.
- Verification team consists of experienced personnel.

Project Verification opinion

Assessment team conducted documentation review the PCN against the UCR program verification standard version 2.0 and UCR project eligibility criteria version 7.0 and the UCR-PCN-FORM Version 1.0.

It is confirmed that the project activity is a 49.6 MW of large-scale wind power project located in Village: Lalpur, District: Jamnagar, State: Gujarat, India.

The geo co-ordinates of the project activity have been mentioned in sections above. Assessment team performed a remote audit and confirmed that the location described in the PCN is accurate. The verification was performed on the basis of UCR requirements, and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the PCN, MR and additional background documents; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The project correctly applies the approved baseline and monitoring methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0.

The monitoring plan provides for the monitoring of the project's emission reductions. The monitoring arrangements described in the monitoring plan are feasible within the project design, and the project participants are able to implement the monitoring plan. Given that the project is implemented and maintained as designed, the project has achieved the emission reductions of 333,840 tCO₂eq during the monitoring period i.e. from 01/12/2019 to 31/12/2024.

The review of the project design documentation and the subsequent follow-up interviews have provided assessment team with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the project meets all applicable UCR requirements. Assessment team thus requests the registration of the proposed UCR project activity.

Appendix 1. Abbreviations

Abbreviations	Full texts
ACM	Approved Consolidated Methodology
UCR	Universal Carbon Registry
PCN	Project Concept Note
MR	Monitoring Report
t	Tonnes
NGO	Non-Governmental Organization
ISO	International Organization for Standardization
CAR	Corrective Action Request
CL	Clarification Request
GHG	Greenhouse Gas
MWh	Megawatt Hours
CO ₂	Carbon Dioxide
CH ₄	Methane
N ₂ O	Nitrous Oxide

Appendix 2. Competence of team members and technical reviewers

❖ **Mr. Pankaj Kumar** is a seasoned Environment and Climate Change professional with over 19 years of experience in Climate Change Mitigation & Adaptation, Environmental Due Diligence, Disaster Risk Reduction, Climate Finance, and capacity building. As the Managing Director of Enviance Services Pvt. Ltd., Pankaj Kumar leads a validation and verification body for GHG projects and also providing consultancy services in various areas including Climate Adaptation, Mitigation, Sustainability, and more. Previously, Pankaj Kumar served as a Climate Adaptation Expert with Deloitte Touche Tohmatsu India LLP, contributing to the World Bank project on Asset Management, Institutional Effectiveness, and Road Safety in Bihar. Mr. Pankaj also led the Bihar team for the South Asia Climate Proofing and Growth Development (CPGD) – Climate Change Innovation Programme (CCIP), supported by DFID, which aimed to integrate climate change resilience into planning and budgeting across South Asia. With a strong background in environmental projects, Pankaj Kumar has worked with IL&FS Infrastructure Development Corporation and BUIDCO (Bihar Urban Infrastructure Development Corporation) as an Environmental Specialist for WB & ADB funded projects. Additionally, Pankaj has extensive experience in GHG project validation and verification, having led over 300 projects globally while with UNFCCC accredited DoEs and as an external expert for Gold Standard and Global Carbon Council. Mr. Pankaj is an accredited Lead Auditor, Validator, Verifier, and Technical Expert for multiple sectoral scopes by UNFCCC DoE and is on the roster of WASH experts of UNICEF. Mr. Pankaj's expertise spans across various standards including CDM, Verified Carbon Standard, Gold Standard, Global Carbon Council, Natural Forest Standard, Riverse and Social Carbon Standard.

❖ **Ms. Ritu Singh** has done Masters in Environmental Science from Central University of South Bihar, Gaya and bachelor of Science in Zoology from Magadh Mahila College, Patna University, India. She has done Masters' research focused on solid waste management during and post covid-19 pandemic and conducted a survey in Medical Colleges of Bihar to study the trends of waste management. She has more than 2 year working experience in True Quality Certifications Pvt. Ltd. (An outsource entity for LGAI Technological Center, S.A. (Spain) "Applus+ Certification") and has been involved in supporting Audit teams for Validation and Verifications of Project Activities (Renewable and non-Renewable projects) under CDM/VCS/GS4GG/GCC programs. Currently, Ritu is engaged as an internal resource with Enviance Services Private Limited, where she is accredited as a Lead Auditor, Validator, Verifier, and Technical Expert for Sectoral Scope/Technical Area 1.2 by Enviance.

❖ **Ms. Swati Mahajan** is graduate in Environmental Engineering from Shivaji University, India and previously worked as an Environment Engineer at Eco Designs India Private Ltd., Pune. She is adept in designing of landfill sites for solid waste management. She also has hands on experience in cost benefit analysis and preparation of DPRs for SWM projects. She also has done a certified course in carbon capture and storage from Edinburg University. Currently working as GHG assessor for projects under various GHG mechanisms like GCC, ICR, UCR and VERRA.

Appendix 3. Document reviewed or referenced

No.	Author	Title	References to the document	Provider
1	NA	Communication agreement		Project Owner
2	NA	Project Concept Note		Aggregator
3	NA	Monitoring report		Aggregator
4	NA	Emission reduction sheet		Aggregator
5	NA	Declaration on avoidance of doublecounting		Aggregator
6	NA	Commissioning Certificates for the wind power plants		Aggregator
7	NA	Power purchase agreement		Aggregator
8	NA	Joint Meter Readings/invoices for the complete monitoring period		Aggregator
9	NA	Calibration certificates for energy meters		Aggregator
10	NA	Equipment purchase order		Aggregator
11	NA	Grid Emission factor recommended for Indian projects by UCR	Upto year 2023 - https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com/Documents/UCRStandardAug2024updatedVer7_020824191534797526.pdf Year 2024 - https://medium.com/@UniversalCarbonRegistry/ucr-cou-standard-update-2024-vintage-ucr-indian-grid-emission-factor-announced-ddb790cdc603	General project eligibility criteria and guidance UCR standard version 7.0
12	UCR	UCR Program manual version 6.2 UCR COU standard version 7 UCR Verification standard version 2 UCR terms and conditions version 11.0, May 2025	https://www.ucarbonregistry.io/Document?projectId=1	Universal Carbon Registry
13	CDM	CDM approved methodology- ACM0002- Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0.	https://cdm.unfccc.int/met/hodologies/DB/XB1TX7TAZ6SLWM9B7BC67THHVD16JV	UNFCCC

Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

Classification	☐ CAR ☒ CL/CR ☐ FAR	Number:	01
Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	04-02-2026
PP shall submit an undertaking for no double counting for current monitoring period and for project activity has neither been registered nor seeking registration under any other GHG programs.			
Client/Responsible Party/Project Proponent Response		Date:	24-02-2026
PP has attached an undertaking for no double counting for current monitoring period and for project activity has neither been registered nor seeking registration under any other GHG programs.			
Validation/Verification Team Assessment		Date:	07-03-2026
PP has submitted an undertaking for no double counting and on assessment it was verified that the project activity has neither been registered nor seeking registration under any other GHG programs and also there is no double counting for the current monitoring period. Hence, CL 01 is closed.			

Classification	☐ CAR ☒ CL/CR ☐ FAR	Number:	02
Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	04-02-2026
- PP shall submit the names of the local stakeholders. - The Project Proponent (PP) has claimed alignment of the proposed project activity with the following Sustainable Development Goals (SDGs): SDG 8: Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all To validate this claim and ensure measurable achievement of the stated goal, the PP is hereby requested to submit the following supporting documentation: Employment data, including number of jobs created, nature of employment (temporary/permanent), and gender inclusivity metrics All documents should be duly certified and submitted.			
Client/Responsible Party/Project Proponent Response		Date:	24-02-2026
PP has attached the documents substantiating the details			
Validation/Verification Team Assessment		Date:	07-03-2026
- PP has submitted the names and details of the local stakeholders. - PP has submitted the employment data which includes the number of jobs created, nature of employment (temporary/permanent), and gender inclusivity metrics. All the details were verified during assessment. Hence, CL 02 is closed.			

Classification	☐ CAR ☒ CL/CR ☐ FAR	Number:	03
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Project Verification Report

Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	04-02-2026
1. PP shall submit the meter photographs which are consistent with the submitted meter calibration report. 2. As per the submitted calibration certificate, the meter was calibrated on 20/07/2020 with a validity up to 20/07/2021. However, the calibration validity mentioned in the Monitoring Report (MR) is 20/07/2025. The Project Proponent (PP) is requested to clarify this discrepancy. 3. PP shall submit meter calibration certificates and meter pictures of meters with serial numbers GJU-62417 and GJU-62418.			
Client/Responsible Party/Project Proponent Response		Date:	24-02-2026
PP has attached the documents and has updated the MR substantiating the details. Meters have been calibrated in adherence to Regulation 18 of the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, which mandates that calibration be performed once every five years. Therefore, the meter calibration remains valid for the entire five-year interval as per the CEA guidelines			
Validation/Verification Team Assessment		Date:	07-03-2026
The Project Proponent (PP) has submitted the requested meter calibration certificates and photographs for meters bearing serial numbers GJU-62417 and GJU-62418. The Monitoring Report (MR) has been updated to reflect the calibration details. Upon review, it is noted that the calibration certificate dated 20/07/2020 specifies validity up to 20/07/2021. However, PP has clarified that calibration is undertaken in accordance with Regulation 18 of the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, which stipulates a five-year calibration interval. Accordingly, the calibration validity up to 20/07/2025 is consistent with the regulatory requirement. Hence, CL 03 is closed.			

Classification	☐ CAR ☒ CL/CR ☐ FAR	Number:	04
Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	04-02-2026
As per the PCN, the project was registered under the CDM with reference ID 8324. However, these details have not been mentioned in the Monitoring Report (MR). If the project was registered in CDM, the Project Proponent (PP) shall: (i) include a footnote in the MR with a reference link containing all relevant CDM registration details, and (ii) specify the first issuance date under UCR, rather than mentioning only the first issuance date. PP shall make the necessary changes wherever applicable.			
Client/Responsible Party/Project Proponent Response		Date:	24-02-2026
PP has modified			
Validation/Verification Team Assessment		Date:	07-03-2026
The Project Proponent (PP) has modified the Monitoring Report (MR) to incorporate the CDM registration details (Reference ID: 8324) and has included a footnote with the relevant CDM registration link. Additionally, the MR version 1.1 has been updated to specify the first issuance date under UCR, in line with the requirement. Hence, CL 04 is closed.			

Classification	☐ CAR ☒ CL/CR ☐ FAR	Number:	05
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Project Verification Report

Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	04-02-2026
1. In the Monitoring Report (MR), the Project Proponent (PP) shall include an additional column indicating the WTG numbers alongside the commissioning date column. This will facilitate efficient verification of the reported commissioning dates. 2. The Project Proponent (PP) shall submit supporting documents detailing the technical specifications of the wind turbines installed at the project site.			
Client/Responsible Party/Project Proponent Response		Date:	24-02-2026
1. PP has modified 2. PP has provided the details			
Validation/Verification Team Assessment		Date:	07-03-2026
1. The Project Proponent (PP) has modified the Monitoring Report (MR) version 1.1 to include an additional column indicating the Wind Turbine Generator (WTG) numbers alongside the commissioning dates, thereby facilitating efficient verification of the reported commissioning details. 2. PP has submitted the supporting documents containing the technical specifications of the wind turbines installed at the project site. Hence, CL 05 is closed.			

Table 2. CARs from this Project Verification

Classification	☒ CAR ☐ CL/CR ☐ FAR	Number:	01
Raised by:	Ms. Swati Mahajan	Document reference	MR
Finding Description		Date:	04-02-2026
1. Few JMR readings are inconsistent with the submitted supporting documents. Correction sought. 2. PP shall revise the energy generation and emission reduction value in MR (wherever applicable) as per the revised excel sheet.			
Client/Responsible Party/Project Proponent Response		Date:	24-02-2026
PP has updated the MR and ER sheet accordingly			
Validation/Verification Team Assessment		Date:	07-03-2026
1. PP has corrected the JMR readings which were inconsistent. On assessment it was verified that all the readings are now consistent with the submitted supporting documents. 2. PP has updated the values of energy generation and emission reduction value in MR version 1.1. Hence, CAR 01 is closed.			

Classification	☒ CAR ☐ CL/CR ☐ FAR	Number:	02
Raised by:	Ms. Swati Mahajan	Document reference	MR
Finding Description		Date:	04-02-2026

Project Verification Report

1. The Project Proponent (PP) is advised to incorporate the changes and clarifications suggested in the Monitoring Report (MR) into the Project Concept Note (PCN) as well, to ensure consistency across all project documentation. 2. The Project Proponent (PP) is advised to maintain consistency in font size and type across the Monitoring Report (MR) and Project Concept Note (PCN).		
Client/Responsible Party/Project Proponent Response	Date:	24-02-2026
1. PP has modified the changes and clarifications suggested in the Monitoring Report (MR) into the Project Concept Note (PCN) as well, to ensure consistency across all project documentation 2. PP has modified to maintain consistency in font size and type across the Monitoring Report (MR) and Project Concept Note (PCN).		
Validation/Verification Team Assessment	Date:	07-03-2026
1. The Project Proponent (PP) has modified the Project Concept Note (PCN) version 1.1 to incorporate the changes and clarifications suggested in the Monitoring Report (MR) version 1.1, thereby ensuring consistency across all project documentation. 2. Additionally, PP has aligned the formatting by maintaining uniform font size and type across both the MR and PCN. Hence, CAR 02 is closed.		

Classification	☒ CAR ☐ CL/CR ☐ FAR	Number:	03
Raised by:	Ms. Swati Mahajan	Document reference	MR
Finding Description		Date:	04-02-2026
1. As mentioned, the first issuance period is stated to commence from 01/12/2019. However, the Emission Reduction Calculation Table reflects a start date of 01/01/2019, which is inconsistent with the declared monitoring timeline. The Project Proponent (PP) is requested to review and correct the start date in the calculation table to ensure consistency with the officially stated issuance period. Revised documentation shall be duly updated and submitted for verification. 2. First crediting period is inconsistent throughout the MR and PCN. Correction sought.			
Client/Responsible Party/Project Proponent Response		Date:	24-02-2026
PP has updated the MR and ER accordingly.			
Validation/Verification Team Assessment		Date:	07-03-2026
1. The Project Proponent (PP) has updated the Monitoring Report (MR) and Emission Reduction (ER) calculation table to correct the start date, ensuring consistency with the declared issuance period commencing from 01/12/2019. 2. Additionally, the first crediting period has been made consistent across both the MR and the Project Concept Note (PCN), thereby resolving the earlier inconsistency. Hence, CAR 03 is closed.			

Table 3. FARs from this Project Verification

FAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of FAR				

Project Verification Report

Project Owner's response	Date: DD/MM/YYYY
Documentation provided by Project Owner	
UCR Project Verifier assessment	Date: DD/MM/YYYY