



**Verification and certification report form for
CDM project activities
(Version 03.0)**

Complete this form in accordance with the instructions attached at the end of this form.

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	100.5 MW Wind Power Project in Madhya Pradesh, India
GS reference number of the PA	GS 3969
Earthhood reference number	GS.VER.19.23
Scale of the project activity	☒ Large-scale ☐ Small-scale
Version number of the verification and certification report	4.0
Completion date of the verification and certification report	26/05/2020
Monitoring period number and duration of this monitoring period	Third, 01/04/2018 to 30/09/2019 (inclusive of both days)
Version number of the monitoring report to which this report applies	04
Crediting period of the project activity corresponding to this monitoring period	01/01/2015 to 31/12/2021 (Renewable)
Project participants	Orange Mamatkhedha Wind Private Limited (OMWPL)
Host Party	India
Applied methodologies and standardized baselines	ACM0002: Grid-connected electricity generation from renewable sources Version 16.0 Standardized baseline: Not applicable
Mandatory sectoral scopes	01 - Energy industries (renewable / non-renewable sources)
Conditional sectoral scopes, if applicable	NA
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	SDG 7: 180,478 MWh/ year & 270,964 MWh for this Monitoring Period SDG 8: 1 training & 89 employees SDG 13: 176,331 tCO ₂ /year & 264,738 tCo ₂ for this Monitoring Period
Certified amount of GHG emission reductions or GHG removals for this monitoring period	SDG 7: 328,221 MWh SDG 8: 03 trainings & 83 employees SDG 13: 320,672 tCO ₂

Name and UNFCCC reference number of the DOE	Earthood Services Private Limited E-0066
Name, position and signature of the approver of the verification and certification report	 Dr. Kaviraj Singh Managing Director

SECTION A. Executive summary

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The main purpose of this project activity is to generate clean form of electricity through renewable wind energy source. The project activity is a 100.5 MW wind power project, promoted by Orange Mamatkhedha Wind Private Limited (OMWPL). The project consists of 67 Wind Turbine Generators (WTGs) of 1.5 MW class ReGenV87 make. The electricity generated by the project is exported to the Grid.

Project is operational, and the assessment team verified this during the site visit. The assessment team confirms that the total emission reduction achieved under this monitoring period 01/04/2018 to 30/09/2019 (including both days) is 320,672 tCO₂e.

Orange Mamatkhedha Wind Private Limited (OMWPL) has contracted Earthood Services Private Limited (Earthood) to conduct the verification and certification of emission reductions reported for the GS PA “100.5 MW Wind Power Project in Madhya Pradesh, India” for the period 01/04/2018 to 30/09/2019 (inclusive both days). This report contains the findings of the verification process and a certification statement for the certified emission reductions. The verification is the periodic independent review and *ex post* determination by Earthood of the monitored reductions in GHG emissions that have occurred as a result of the registered GS project activity during a defined monitoring period. Certification is the written assurance by Earthood that, during a specific period in time, a project activity achieved the verifiable emission reductions.

The objective of this verification was to verify and certify emission reductions reported for the “100.5 MW Wind Power Project in Madhya Pradesh, India” for the period 01/04/2018 to 30/09/2019.

Scope of verification

The verification is an independent and objective review determination of the monitored reductions in GHG emissions and improvement in sustainability parameters by the DOE. The verification includes the implementation and operation of the PA as set out in the registered PDD & Transition Annex in the monitoring period. The verification tests the data and assertions set out in the monitoring report based on the following:

The verification tests the data and assertions set out in the monitoring report prepared for this monitoring period by the PP and the review of PA towards physical implementation of the project and it is based on the following:

- (i) The approved methodology “ACM0002: Grid-connected electricity generation from renewable sources Version 16.0”
- (ii) Gold Standard for Global Goals Transition Annexure
- (iii) Registered PDD for PA
- (iv) UNFCCC criteria referred to in the Kyoto Protocol criteria and the CDM modalities and procedures as agreed in the Bonn Agreement and the Marrakech Accords
- (v) GS for GG requirements
- (vi) The CDM Validation and Verification Standard (VVS) version 2.0
- (vii) The CDM Project Standard (PS) version 2.0 and Project Cycle Procedure (PCP) version 2.0
- (viii) Relevant decisions, guidance and clarifications of the CMP and CDM Executive Board and any other information and references relevant to the project activity's reported emission reductions
- (ix) GS review of previous verification

The verification has considered both quantitative and qualitative aspects on stated/reported emission reductions. The monitoring report (all versions) and corresponding supporting documentation was assessed in accordance with the rules defined by UNFCCC and GS for GG, as appropriate to the PA. The verification is not meant to provide any consulting or recommendations to the PP/others. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the monitoring activities.

Verification process

The verification process is conducted as per internal GS Requirements, which includes the following steps;

- a) Contract with PP and appointment of verification team and technical review team (refer Section B.1 and B.2 of this report)
- b) Uploading the GS Workplan on GS registry

- c) Desk review (refer Section D.1 of this report) of Monitoring Report and corresponding ER sheet by verification team and planning of onsite audit (including sampling approach (refer Section D.4 of this report) to be applied)
- d) On site audit (refer Section D.2 of this report) (physical implementation and interview with relevant stakeholders) by verification team consistent of Team Leader and all Technical Experts, as a minimum
- e) Follow up activities e.g., interviews (refer Section D.3 of this report)
- f) Reporting and closure of findings (CARs/CLs/FARs) and preparation of draft verification report (refer Section D.5 of this report)
- g) Independent technical review (refer Section B.2 of this report) of the draft verification report and final/revised documentation (e.g., Monitoring Report, corresponding ER sheet and evidences)
- h) Reporting and closure of TR comments/findings (refer Section D.5 of this report) (CARs/CLs/FARs) and final approval for the decision made (refer Section G and H of this report).
- i) Issuance of final verification report to contracted PP (or authorized representatives) and submission of request for issuance, as appropriate.

Conclusion

Based on the outcome of the verification process of the PA “100.5 MW Wind Power Project in Madhya Pradesh, India” for the monitoring period 01/04/2018 to 30/09/2019 (including both dates) we confirm that the implementation of referenced registered PA is complying with applicable CDM and GS rules and regulations as stated in the Monitoring Report (final) Version 03, dated 01/05/2020. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology “ACM0002: Grid-connected electricity generation from renewable sources Version 16.0” and the monitoring plan contained in the registered PDD & Transition Annex ^{1/1}.

Earthood Services Private Limited is able to certify that the emission reductions from the registered PA (GS 3969) “100.5 MW Wind Power Project in Madhya Pradesh, India” for the monitoring period 01/04/2018 to 30/09/2019 (including both dates) amount to 320,672 tCO₂e. Therefore, this is being submitted for request for issuance, as per Gold standard and UNFCCC procedures.

SECTION B. Verification team, technical reviewer and approver

B.1. 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/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader	EI	Takarkhede	Atul	Central Office	Y	Y	Y	Y
2.	Technical Expert (TA1.2)	EI	Takarkhede	Atul	Central Office	Y	Y	Y	Y
3.	Methodology Expert	IR	Kumar	Sanjeev	Central Office	Y	N	N	Y
4.	Local Expert	IR	Kumar	Sanjeev	Central Office	Y	N	N	Y
5.	Verifier	EI	Takarkhede	Atul	Central Office	Y	Y	Y	Y

B.2. 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	IR	Gupta	Anshika	Central Office

2.	TA expert to TR	IR	Gupta	Anshika	Central Office
3.	Approver	IR	Singh	Kaviraj	Central Office

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human error in recording monitored data in JMR sheets	Low	The reading of JMR is being recorded in the presence of representatives of State Electricity Board and O&M contractor. Hence, it is highly unlikely of occurrence of human error while recording the readings.	The practice on site for recording data was confirmed from the responsible team members for compliance with the standard procedure. The JMR data ^{/9/} for the project activity was cross checked against the controller readings/Invoices ^{/10/} .
2.	Transfer of recorded data to break up sheets and invoices	Low	A dedicated Team is appointed for transfer of recorded data and calculations related to generation by each Feeder. These calculations are performed in excel templates which have adequate control measures to prevent any manual or calculation error. These sheets are further reviewed for errors by the Electricity Board.	The practice on site for data transfer was confirmed from the responsible team members for compliance with the standard procedure.
3.	Error in transferring the recorded data to ER sheet	Medium	The procedure for transferring the recorded break-up sheet readings to the spreadsheet is manual in nature thus increasing the chances of error. However, PP has Implemented internal quality checks to ensure prevention of any such potential error in the prepared ER sheet.	All the monthly reported values in ER sheet ^{/7/} were verified with JMR ^{/9/} .
4.	Human error: Quantification of emission reduction	LOW	Use of spread-sheets without adequate data control, changes/updates, version tracking, traceability and security	All the Monthly Electricity Generation Reports for the complete monitoring period ^{/9/} are checked and thus the assessment team confirms that the ER value is conservative and correct ^{/7/} .

C.2. Consideration of materiality in conducting the verification

In line with Guidelines for Application of materiality in verifications, the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. There are no material errors, overestimation of ER, omission or misstatement.

SECTION D. Means of verification**D.1. Desk/document review**

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Earthood conducted a desk review as under;

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

In addition to the monitoring documentation, Earthood has reviewed;

- Registered PDD dated 21/12/2015 Version 2.00 and GS MR dated 01/05/2020 Version 03;
- Transition Annex for the project activity
- The GS Validation Report Version 01 dated 31/03/2016;
- The applied monitoring methodology (ACM0002, Version 16.0);
- The monitoring report (all versions) to verify that it is as per the standardized format;
- Any other information and references relevant to the project activity's emission reductions (e.g. IPCC reports, data on electricity generation in the national grid or laboratory analysis/calibration and national regulations).

The complete list of documents reviewed is included under Appendix 3.

D.2. On-site inspection

Duration of on-site inspection: 20/11/2019				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening Meeting: Introduction, scope and objective of work, roles and responsibilities of audit team, resources required, and timetable of the onsite audit including venue for closing meeting and any concerns from PP	Bagiya, Kansar, Mawta, Nandwell, Ranigaon, Thikriya, Bhandariya, Bhepur, Chandakhedi, Dehari, Dhandhoda, Garoda, Karju and Sagwali, villages of Ratlam & Mandsaur districts of Madhya Pradesh, India	20/11/2019	Dr. Atul Takarkhede
2.	Site visit of the plant & implementation of project activity. Local Stakeholder especially end users interview and feedbacks			
3.	Management and monitoring procedures followed at project site.			
4.	Site visit Management and operational system: Documentation, allocation of responsibilities, qualification and training, data recording & archiving, internal audit and management review and emergency procedures.			
5.	Verification checklist: compliance of monitoring procedures followed at project site with registered PDD/GS Passport and monitoring methodology.			
6.	Review of monitored data and relevant document in accordance with registered monitoring plan and applied monitoring methodology.			
7.	Interviews with other stakeholders like villagers and employees involved in PA.			
8.	Compilation of the findings by Auditor/s (CARs/CLs)			
9.	Closing Meeting: Submission of the audit findings to the client and agreement on the issues raised and timelines.			

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Kumar	Anil	Incharge	20/11/2019	Project implementation, ER calculation, monitoring plan, Operation and maintenance Procedures, Calibration, JMR, Local employment, trainings etc.	Dr. Atul Takarkhede
2.	Raj	Prakash	O&M Person	20/11/2019	Operation and maintenance	
3.	Sharma	Santosh	Local Stakeholder	20/11/2019	Local employment etc.	
4.	Gupta	Brijesh	Local Stakeholder	20/11/2019	Local employment etc.	

D.4. Sampling approach

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Site visit was conducted where random sampling was applied and 90/30 precision and confidence level. 25 WTGs were visited from total 67 WTGs. The approach was found to be justified as per the CDM standard of sampling version 7.0 and CDM Validation and Verification Standard for project activities^{/5/}. However, no sampling approach was followed by the assessment team for the verification of the monitoring data like JMR & invoices. All reported monthly figures in the GS MR^{/6/} and GS ER^{/7/} were checked from the actual records i.e JMRs^{/9/} & invoices^{/10/}.

D.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the GS monitoring report form	CL 01	-	-
Compliance of the project implementation and operation with the registered Passport/Transition Annex	-	CAR 02	-
Post-registration changes	-	-	-
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines	-	-	-
Compliance of monitoring activities with the registered monitoring plan	-	-	-
Compliance with the calibration frequency requirements for measuring instruments	-	-	-
Assessment of data and calculation of emission reductions or net removals and Data/Parameters to be monitored including SDG parameteres	-	CAR 03 CAR 04 CAR 05 CAR 06 CAR 07	-
Assessment of reported sustainable development co-benefits	-	-	-
Global stakeholder consultation	-	-	-
Others (please specify)- increase in ER achieved against estimated	-	-	FAR 08
Total	01	06	00

SECTION E. Verification findings**E.1. Compliance of the monitoring report with the monitoring report form**

Means of verification	The monitoring report form used is Gold standard for the global goals Monitoring report version 1 ^{/13/} which was the appropriate form and the latest version available at the time of verification, as verified through GS webpage.
Findings	CL 01 was raised and resolved
Conclusion	All the sections of the form were filled as per the guidelines and gave all the relevant details. CL 01 was raised for clarification on the Crediting period chosen for the project activity and submission of GS registration & previous verification documents for the project activity. PP have submitted MR and found that all sections are filled appropriately. PP have provided clarification on the crediting period of the project activity appropriately. The final monitoring report ^{/6/} was found to be in compliance with the applicable latest monitoring report form and instructions therein ^{/13/} .

E.2. Remaining forward action requests from validation and/or previous verifications

This is the third verification of the project activity, there are no FARs from last validation report or verifications^{/12/}.

E.3. Compliance of the project implementation and operation with the registered project design document

Means of verification	Physical on-site inspection was carried out by the verification team to check the implementation status of the project activity and the instrumentation installed for the project activity.				
	The commissioning dates of the Wind mills was verified from the commissioning certificates ^{/8/} and found that project was commissioned from 20/08/2014 to 28/04/2015. Dates of the WTG commissioning provided in the MR was verified from the commissioning certificate issued by MP Power Transmission Co. Ltd. and found correct ^{/8/} . Through validation report ^{/2/} and PPA ^{/18/} it was confirmed that PP is in agreement with State Utility for the sale of electricity to the grid.				
	The verified geographical coordinates of the WTGs have been mentioned below. The same were checked during on-site inspection by using a hand-held GPS instrument.				
	Sr.	WTG ID	Commissioning dates	Latitude N	Longitude E
	1	RM_01	07/11/2014	23° 44' 28.075"	74° 58' 17.419"
	2	RM_02	05/04/2015	23° 46' 2.550"	74° 57' 0.942"
	3	RM_03	05/04/2015	23° 45' 50.778"	74° 56' 56.742"
	4	RM_04	05/04/2015	23° 45' 44.175"	74° 56' 52.646"
	5	RM_05	05/04/2015	23° 45' 31.851"	74° 56' 53.004"
	6	RM_06	05/04/2015	23° 45' 20.438"	74° 56' 52.126"
	7	RM_07	05/04/2015	23° 45' 13.024"	74° 56' 51.705"
	8	RM_08	05/04/2015	23° 45' 5.869"	74° 56' 50.400"
	9	RM_09	05/04/2015	23° 44' 48.409"	74° 56' 53.869"
	10	RM_10	05/04/2015	23° 44' 40.539"	74° 56' 51.258"
	11	RM_11	05/04/2015	23° 44' 33.286"	74° 56' 47.552"
	12	RM_12	05/04/2015	23° 45' 41.015"	74° 58' 44.783"
	13	RM_13	05/04/2015	23° 45' 29.701"	74° 59' 0.506"
	14	RM_16	05/04/2015	23° 45' 0.957"	74° 59' 7.999"
	15	RM_18	05/04/2015	23° 44' 53.801"	74° 58' 49.207"
	16	RM_19	05/04/2015	23° 44' 40.957"	74° 58' 53.907"
	17	RM_20	05/04/2015	23° 44' 30.029"	74° 58' 36.282"
	18	RM_21	05/04/2015	23° 44' 16.855"	74° 58' 12.264"
	19	RM_22	05/04/2015	23° 44' 10.581"	74° 58' 20.178"
	20	RM_25	05/04/2015	23° 44' 45.641"	75° 0' 49.350"
	21	RM_26	05/04/2015	23° 45' 8.242"	74° 59' 40.994"
	22	RM_28	05/04/2015	23° 44' 21.253"	75° 0' 46.839"
	23	RM_29	05/04/2015	23° 44' 13.059"	75° 0' 50.582"
	24	RM_33	05/04/2015	23° 45' 57.626"	74° 58' 12.594"
	25	RM_34	05/04/2015	23° 45' 15.104"	74° 59' 42.831"
	26	RM_36	05/04/2015	23° 45' 18.452"	74° 59' 29.123"
	27	RM_37	05/04/2015	23° 45' 35.434"	74° 57' 10.526"
	28	RM_38	05/04/2015	23° 45' 49.225"	74° 57' 22.745"
	29	RM_39	05/04/2015	23° 45' 45.789"	74° 56' 18.906"
	30	RM_41	05/04/2015	23° 45' 55.547"	74° 56' 25.826"
	31	RM_42	05/04/2015	23° 45' 23.728"	74° 57' 10.318"
	32	RM_43	07/11/2014	23° 47' 32.845"	74° 59' 21.058"
	33	RM_44	05/04/2015	23° 47' 29.747"	74° 58' 12.750"
	34	RM_45	05/04/2015	23° 47' 36.152"	74° 58' 6.070"

35	RM_48	05/04/2015	23° 47' 39.118"	74° 58' 44.623"
36	RM_49	05/04/2015	23° 47' 43.316"	74° 59' 23.990"
37	RM3_01	20/08/2014	23° 50' 29.519"	74° 57' 14.203"
38	RM3_02	20/08/2014	23° 50' 37.583"	74° 57' 11.973"
39	RM3_03	20/08/2014	23° 50' 45.583"	74° 57' 15.470"
40	RM3_08	20/08/2014	23° 50' 32.270"	74° 58' 39.328"
41	RM3_09	20/08/2014	23° 50' 21.832"	74° 58' 37.456"
42	RM3_10	20/08/2014	23° 50' 6.553"	74° 59' 14.328"
43	RM3_11	20/08/2014	23° 50' 25.804"	74° 59' 32.992"
44	RM3_12	25/08/2014	23° 50' 48.892"	74° 59' 48.864"
45	RM3_13	20/08/2014	23° 50' 46.517"	74° 59' 20.122"
46	RM3_14	20/08/2014	23° 51' 3.231"	74° 59' 30.267"
47	RM3_16	20/08/2014	23° 51' 6.901"	74° 58' 44.060"
48	RM3_17	20/08/2014	23° 51' 23.579"	74° 58' 21.783"
49	RM3_18	20/08/2014	23° 51' 31.349"	74° 58' 18.175"
50	RM3_19	20/08/2014	23° 51' 1.759"	74° 58' 16.979"
51	RM3_22	20/08/2014	23° 51' 51.604"	74° 58' 0.138"
52	RM3_23	20/08/2014	23° 51' 25.764"	74° 59' 13.401"
53	RM3_28	20/08/2014	23° 52' 5.757"	74° 58' 51.263"
54	RM3_30	20/08/2014	23° 52' 22.990"	74° 58' 41.855"
55	RM3_32	20/08/2014	23° 51' 59.161"	74° 59' 53.317"
56	RM3_33	20/08/2014	23° 52' 14.671"	75° 0' 15.699"
57	RM3_34	20/08/2014	23° 52' 24.199"	75° 0' 11.174"
58	RM3_35	20/08/2014	23° 50' 51.456"	74° 58' 50.107"
59	RM3_39	20/08/2014	23° 51' 51.292"	75° 0' 0.743"
60	RM3_40	25/08/2014	23° 51' 1.443"	74° 59' 57.136"
61	RM3_41	20/08/2014	23° 49' 57.904"	74° 59' 28.398"
62	RM3_42	20/08/2014	23° 49' 42.687"	74° 59' 32.712"
63	RM3_43	07/11/2014	23° 53' 28.641"	74° 58' 41.490"
64	RM3_44	07/11/2014	23° 53' 41.388"	74° 58' 41.630"
65	RM3_45	07/11/2014	23° 53' 52.021"	74° 58' 44.457"
66	RM3_46	07/11/2014	23° 54' 1.191"	74° 58' 44.809"
67	RM3_48	07/11/2014	23° 54' 27.171"	74° 58' 42.683"

The location of project activity was verified using a hand held Get-Geo Coordinates app for mobile phones and the data obtained was verified against geo-locations of the plant given in the Registered PDD & Transition Annex ^{/1/}. The geo-coordinates reported in the registered PDD & Transition Annex ^{/1/} was found consistent with the readings of the GPS instrument. The metering is located at Garuda 220 KV Pooling substation^{/19/}.

The installation and specification of the WTGs installed were checked with the commissioning certificate^{/8/}, name-plates and physical inspection.

Some key technical specifications of the equipments are tabulated below:

POWER	
Rated power	1500 kW
Cut-in wind speed (10 min. mean)	3 m/s
Rated Wind Speed (10 min. mean)	Approx. 12.5 m/s
Cut-out wind speed (10 min. mean)	22 m/s
Survival wind speed	52.5 m/s

Generator	Variable Speed, Multi-pole Synchronous with Permanent Magnet Excitation
ROTOR	
Diameter	86.7 m
Swept area	5325 m ²
Speed range (variable)	9 to 17.3 rpm
TOWER AND FOUNDATION	
Hub height	85 m
Design	Tubular, Four sections
Foundation type	Floating foundation
CONTROL AND SAFETY SYSTEMS	
Control of output	Pitch Regulation
Speed control	Variable, Micro-controller based
Low Voltage Ride Through (LVRT)	3 seconds
Primary brake system	Aerodynamic Brake, Single Pitch Control/triple redundant
Pitch System	Electromechanical, Maintenance Free Toothed Belt Drive (Patented)
Remote Monitoring	VPN, Visualization via web-browser
TYPE CLASSES	
Wind turbine type class	GL III A

The single line diagram available at the sub-station and the interviews with the site engineers^{/19/} confirmed that the configuration of the project activity and the location of monitoring instruments is in accordance with the description provided in the Registered PDD & Transition Annex^{/1/}.

In addition to physical inspection, interviews of the personnel were conducted by the verification team which revealed that all the QA/QC procedures listed in the Registered PDD & Transition Annex^{/1/} have been followed while operating the project activity.

As per para 3.1.3 of GS4GG Renewable Energy Activity Requirements, Version 1.2^{/21/}, project activity is Non micro-scale project. The emission reduction achieved in this monitoring period are 320,672 tCO₂e^{/6/}, against the estimated ERs – 264,738 tCO₂e as per approved Registered PDD & Transition Annex^{/1/}.

The monitoring and metering system, and its compliance with the monitoring plan has been discussed in later sections of the report

For the purpose of verification of implementation of project activity, audit team conducted following activities onsite:

- An inspection of operational state of Wind Power Plant
- Interviews of personnel employed in the functioning of project activity to gauge if the monitoring personnel were well verse of their role and responsibilities
- Review of documentation for the monitored data and to cross-check their correct transfer to ER sheet^{/7/}.

The information relating to the project implementation, provided in the Monitoring Report^{/6/} is consistent with that stated in the registered PDD & Transition Annex^{/1/}. The data and variables provided in the monitoring report are the same as stated in the registered PDD & Transition Annex^{/1/}.

Further, grievance register/Suggestion box is maintained at site office and same is opened weekly for action on grievances/complaints or suggestions if any.

	No grievances or major complaints against project activity were observed during the monitoring period as evident from the document review of grievance records ^{/22/} and interviews with stakeholders ^{/19/} .
Findings	CAR 02 was raised and resolved.
Conclusion	DOE, inline to para 354-356 of VVS for PA Version 02 ^{/5/} , confirms that: • Implementation and operation of project activity has been conducted in accordance with the description contained in registered PDD & Transition Annex^{/1/}. • Physical features of the registered project activity specified in Registered PDD & Transition Annex^{/1/} are in place and PP have operated the project activity as per the registered PDD & Transition Annex^{/1/}. The emission reductions achieved during the current monitoring period are 320,672 tCO ₂ e which are higher than the estimated ERs as per Registered PDD & Transition Annex ^{/1/} 264,738 tCO ₂ e.

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents¹

Not applicable for present Monitoring period.

E.4.2. Corrections

Not applicable for present Monitoring period.

E.4.3. Changes to the start date of the crediting period

Not applicable for present Monitoring period.

E.4.4. Inclusion of a monitoring plan

Not applicable for present Monitoring period.

E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

Not applicable for present Monitoring period.

E.4.6. Changes to the project design

Not applicable for present Monitoring period.

E.4.7. Changes specific to afforestation and reforestation project activities

Not Applicable.

E.5. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents

Means of verification	The review of applied methodology ACM0002: Grid-connected electricity generation from renewable sources Version 16.0 ^{/3/} and approved monitoring plan establishes that the plan is consistent with the applied methodology ^{/ ACM0002/} . Based on this review it was found the monitoring plan includes all the required parameters to be monitored in the context of project design and description and
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¹ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

	allows proper determination of emission reductions in accordance with the applied methodology ^{/ACM0002/} .
Findings	No findings
Conclusion	The approved monitoring plan is in accordance with the applied methodology ^{/3/} and correctly applied by the Registered PDD & Transition Annex ^{/1/} .

E.6. Compliance of monitoring activities with the registered monitoring plan

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The values considered ex-ante for this monitoring period were cross-checked with registered PDD & Transition Annex ^{/1/} and their respective sources. The summary of all the ex-ante parameters has been given below:		
	Parameter/ Description	Value applied	MoV
	SDG 13: Climate Action EF _{OM, y} Operating Margin Emission Factor of NEWNE Grid	0.9862 tCO ₂ /MWh	The value of the parameter was checked from registered PDD & Transition Annex ^{/1/} . The value of the parameter was sourced from CEA database version 10 ^{/14/} .
	SDG 13: Climate Action EF _{BM, y} Build Margin Emission Factor of NEWNE Grid	0.9495 tCO ₂ /MWh	The value of the parameter was checked from registered PDD & Transition Annex ^{/1/} . The value of the parameter was sourced from CEA database version 10 ^{/14/} .
	SDG 13: Climate Action EF _{CM, y} Combined Margin Emission Factor of NEWNE Grid	0.9770 tCO ₂ /MWh	The value of the parameter was checked from registered PDD & Transition Annex ^{/1/} . The value of the parameter was sourced from CEA database version 10 ^{/14/} .
Findings	None		
Conclusion	The value in the monitoring report ^{/6/} and corresponding emission reduction calculations spreadsheet ^{/7/} are consistent with the Registered PDD & Transition Annex ^{/1/} . The applied value is correct and justified.		

E.6.2. Data and parameters monitored

Relevant SDG Indicator	SDG 7.2.1 : Affordable and Clean Energy	
Means of verification	EG_{facility,y} : Quantity of net electricity supplied to the grid during the year y.	
	Measuring/Reading/Recording Frequency	Measured continuously and recorded monthly
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the monitoring frequency is in accordance to the monitoring plan ^{/1/} and monitoring methodology ^{/3/} .
	Monitoring equipment	The parameter is monitored with a bi-directional energy meter. Details of monitoring meters are provided in Appendix 5 of the report.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	Accuracy class of the equipment is 0.2s, which is in line to registered Registered PDD & Transition Annex ^{/1/} and consistent with calibration certificate ^{/15/} as well. Information was found consistent onsite.
	Is the accuracy valid for the entire	Accuracy class is valid for entire

	measuring range or do different accuracy levels apply to different measuring ranges?	range.
	Calibration frequency /interval:	The meters are Tested/calibrated by accredited/State Utility approved agency once in a year ^{/1/} . Details of the calibration are provided in FVR and revised MR.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	No. Delay in calibration observed. The observed error was found below permissible error of 0.2%.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes, The meters are initially tested/calibrated by MP Power Transmission Co. Ltd. ^{/15/} .
	Is(are) calibration(s) valid for the whole reporting period?	The calibration dates are presented in appendix 5 of this report. The dates have been checked from the calibration certificates^{/15/}. Meters are periodically calibrated by state utility^{/15/}. Same was confirmed from calibration certificates and during site visit^{/15/}. PP has submitted records of the meter calibration^{/15/} delay observed from 11/12/2018 to 19/03/2019. Thus, meter calibration records were checked by the assessment team and found that the observed percent error for both meters was found less than maximum permissible limit of 0.2%. Thus, delayed calibration is addressed in line with para 366 (a) of the "CDM validation and verification standard for project activities, Version 02" by applying maximum permissible error of 0.2% for complete delayed period covering complete months i.e. December 2018 to March 2019 as conservative approach. Same was accepted by the assessment team being inline with standard and most conservative approach.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes
	How were the values in the monitoring report verified?	A value of Net Electricity export by the project activity for the monitoring period verified from monthly joint meter reading issued by Madhya Pradesh Poorv Kshetra Vidyut Vitran Company Limited ^{/9/} . The value was found to be consistently reported in MR ^{/6/} and ER sheet ^{/7/} .

	If applicable, has the reported data been cross-checked with other available data?	The readings were cross checked with the monthly bills raised by PP to Madhya Pradesh Poorv Kshetra Vidyut Vitran Company Limited ^{/10/} .
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, The calibration of the monitoring meters is done by accredited agency periodically. Check meter also help in verifying main meter readings.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	No such issues.
Findings	No CAR raised on this section.	
Conclusion	The DOE confirms that: • The registered monitoring plan has been properly implemented and followed by the project participant. • Monitoring of parameter is implemented in accordance with registered monitoring plan^{/1/}. • The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology^{/3/}. • Monitoring results are consistently recorded as per approved frequency. • Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan^{/1/}.	

Relevant SDG Indicator	SDG 13.2.1: Climate Action • Air quality Reduction in CO2 emission reduction due to implementation of project activity
Means of verification	The value for this parameter is calculated inline with registered PDD & Transition Annex ^{/1/} .
Findings	No finding raised.
Conclusion	The value mentioned in the Monitoring Report ^{/6/} are consistent with the registered PDD & Transition Annex ^{/1/} . The applied value is correct and justified.

Relevant SDG Indicator	SDG 8.5.1: Decent Work and Economic Growth • Quality of employment Number of Trainings provided to employees & O&M staffs.
Means of verification	The value for this parameter is taken from Plant records i.e. Training Records/16/. Verification team interviewed some employees to verify trainings conducted during year 2018 (1 training) & 2019 (02 trainings).
Findings	CAR 06 was raised and resolved.
Conclusion	The value mentioned in the Monitoring Report ^{/6/} are consistent with the registered PDD & Transition Annex ^{/1/} . The applied value is correct and justified.

Relevant SDG Indicator	SDG 7.2.1: Affordable and Clean Energy Access to affordable and clean energy services Net electricity supplied to grid	
Means of verification	Measuring/Reading/Recording Frequency	Measured continuously and recorded monthly
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the monitoring frequency is in accordance to the monitoring plan ^{/1/} and monitoring methodology ^{/3/} .
	Monitoring equipment	The parameter is monitored with a bi-directional energy meter. Details of monitoring meters are provided in Appendix 5 of the report.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	Accuracy class of the equipment is 0.2s, which is in line to registered Registered PDD & Transition Annex ^{/1/} and consistent with calibration certificate ^{/15/} as well. Information was found consistent onsite.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Accuracy class is valid for entire range.
	Calibration frequency /interval:	The meters are Tested/calibrated by accredited/State Utility approved agency once in a year ^{/1/} . Details of the calibration are provided in FVR and revised MR.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	No. Delay in calibration observed. The observed error was found below permissible error of 0.2%.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes, The meters are initially tested/calibrated by MP Power Transmission Co. Ltd. ^{/15/} .
	Is(are) calibration(s) valid for the whole reporting period?	The calibration dates are presented in appendix 5 of this report. The dates have been checked from the calibration certificates^{/15/}. Meters are periodically calibrated by state utility^{/15/}. Same was confirmed from calibration certificates and during site visit^{/15/}. PP has submitted records of the meter calibration^{/15/} delay observed from 11/12/2018 to 19/03/2019. Thus, meter calibration records were checked by the assessment team and found that the observed percent error for both meters was less than the maximum permissible limit of 0.2%. Thus, delayed calibration is addressed in line with para 366 (a) of the "CDM

		validation and verification standard for project activities, Version 02" by applying maximum permissible error of 0.2% for complete delayed period covering complete months i.e. December 2018 to March 2019 as conservative approach. Same was accepted by the assessment team being inline with standard and most conservative approach.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes
	How were the values in the monitoring report verified?	A value of Net Electricity export by the project activity for the monitoring period verified from monthly joint meter reading issued by Madhya Pradesh Poorv Kshetra Vidyut Vitran Company Limited ^{/9/} . The value was found to be consistently reported in MR ^{/6/} and ER sheet ^{/7/} .
	If applicable, has the reported data been cross-checked with other available data?	The readings were cross checked with the monthly bills raised by PP to Madhya Pradesh Poorv Kshetra Vidyut Vitran Company Limited ^{/10/} .
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, The calibration of the monitoring meters is done by accredited agency periodically. Check meter also help in verifying main meter readings.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	No such issues.
Findings	No finding raised.	
Conclusion	The value mentioned in the Monitoring Report ^{/6/} are consistent with the ER sheet ^{/7/} . The applied value is correct and justified.	

Relevant SDG Indicator	SDG 8: Decent Work and Economic Growth Quantitative employment and income generation 1. INR for the Cost spent for O&M 2. Number of employees involved in the project. Number of people employed directly due to the project activity
Means of verification	The value for this parameter is taken from Plant records i.e. Training Records ^{/16/} . Verification team interviewed some employees to verify data.
Findings	CAR 05 was raised and resolved.
Conclusion	The value mentioned in the Monitoring Report ^{/6/} are consistent with the registered PDD & Transition Annex ^{/1/} . The applied value is correct and justified.

Relevant SDG Indicator	SDG 13: Climate Action • Soil Erosion
Means of verification	The value for this parameter is taken from Project O&M HSE logbook and interview with maintenance staff.
Findings	No finding was raised.
Conclusion	The value mentioned in the Monitoring Report ^{/6/} are consistent with the registered PDD & Transition Annex ^{/1/} . The applied value is correct and justified. Further, parameter is related to the corresponding safeguarding principle 4.2.2: Erosion and/or Water Body Instability. However, parameter have been verified by assessment team being part of the monitoring plan inline with the registered PDD & Transition Annex ^{/1/} .

Relevant SDG Indicator	SDG 13: Climate Action • Maintenance of Landscape visual impact
Means of verification	The value for this parameter is taken from Project O&M HSE logbook, Grievance register and interview with maintenance staff and onsite visit observations.
Findings	CAR 07 was raised and resolved.
Conclusion	The value mentioned in the Monitoring Report ^{/6/} are consistent with the registered PDD & Transition Annex ^{/1/} . The applied value is correct and justified. Landscape is maintained by the PP and no major grievance was noted on review of Grievance registrar. Further, parameter is related to the corresponding safeguarding principle 4.3.1: Landscape Modification and Soil. However, parameter have been verified by assessment team being part of the monitoring plan inline with the registered PDD & Transition Annex ^{/1/} .

E.6.3. Implementation of sampling plan

Means of verification	The verification assessed whether the compliance of the sampling efforts and surveys with the registered sampling plan in accordance with the “Standard for sampling and surveys for CDM/GS project activities and programme of activities” if PP had applied a sampling approach to determine data and parameters monitored.
Findings	There is no CAR/CL raised in this section.
Conclusion	Sampling plan to determine data and parameters monitored during this monitoring period have not been applied. The verification team has checked all the documents such as JMR (Monthly meter) report ^{/9/} , Employment Records ^{/20/} , Training Records ^{/16/} etc. and hence sampling plan was not required. The verification team hereby confirms that are checked all the documents.

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	The energy generation is measured through a tri-vector electronic meters installed at 220 KV Garuda pooling substation via main & check meters. The calibration frequency for both meters was set as once in a year^{/1/}. The details of meters and the dates on which calibration has been conducted are given in appendix 5 of this report. The test/calibration certificates^{/15/} submitted by the PP confirmed the dates listed in appendix 5 and, also revealed that the process has been carried out by state utility. Calibration and meter arrangement are not in the purview of Project participants and is controlled by the State Utility. To ensure that the readings were accurate, test/calibration certificates of all meters were checked and were found satisfactory. The dates have been checked from the calibration certificates^{/15/}. Delay observed from 11/12/2018 to 19/03/2019. Thus, meter calibration records were reviewed by the assessment team and found that the observed percent error for both meters was less than the maximum permissible limit of 0.2%. Thus, delayed
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	calibration is addressed in line with para 366 (a) of the “CDM validation and verification standard for project activities, Version 02” by applying maximum permissible error of 0.2% for complete delayed period covering complete months i.e. December 2018 to March 2019 as conservative approach. Same was accepted by the assessment team being inline with standard and most conservative approach..
Findings	No finding raised.
Conclusion	The DOE confirms that the calibration is conducted at the frequency as specified by the methodology and the registered monitoring plan ^{/1/} .

E.8. Safeguarding principles assessment

Means of validation	The analysis of social, economic and environmental impacts:			
	Safeguarding principles	Assessment questions	Assessment of relevance to the project by PP (Yes/potentially/No)	Justification by DOE
	3.0 Social & Economic Safeguarding Principles and Requirements 3.1 Principle 1 – Human Rights	1. The Project Developer and the Project shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights. 2. The Project shall not discriminate with regards to participation and inclusion.	NO	Based on the Registered PDD & Transition Annex ^{/1/} , from review and assessment of the PA it is evident that project is generating electricity through wind power plant and does not interfere in the human rights of the people therefore the safeguarding principle is relevant to the project in a positive manner. Hence, it was found acceptable by the assessment team.
	3.2 Gender Equality and Women's Rights	1. The Project shall complete the following gender assessment questions in order to inform Requirements 2-4, below: • Is there a possibility that the Project might reduce or put at risk women's access to or control of resources, entitlements and benefits? • Is there a possibility that the Project can adversely affect men and women in	No	Based on the Registered PDD & Transition Annex ^{/1/} , from review and assessment of the PA it is evident that project is generating electricity through wind power plant. The project activity is not impacting gender equality for women's rights; therefore, the safeguarding principle is relevant to the project in a positive manner. Hence, it was found acceptable by the assessment team.

		marginalised or vulnerable communities (e.g., potential increased burden on women or social isolation of men)? • Is there a possibility that the Project might not take into account gender roles and the abilities of women or men to participate in the decisions/designs of the project's activities (such as lack of time, child care duties, low literacy or educational levels, or societal discrimination)? • Does the Project take into account gender roles and the abilities of women or men to benefit from the Project's activities (e.g., Does the project criteria ensure that it includes minority groups or landless peoples)? • Does the Project design contribute to an increase in women's workload that adds to their care responsibilities or that prevents them from engaging in other activities? • Would the Project potentially reproduce or further deepen discrimination against women based on gender, for instance, regarding their full participation in design and implementation or access to opportunities and benefits? • Would the Project potentially limit women's ability to use, develop and		
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		protect natural resources, taking into account different roles and priorities of women and men in accessing and managing environmental goods and services? • Is there a likelihood that the proposed Project would expose women and girls to further risks or hazards? 2. The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women. Specifically, this shall include (not exhaustive): • Sexual harassment and/or any forms of violence against women – address the multiple risks of gender-based violence, including sexual exploitation or human trafficking. • Slavery, imprisonment, physical and mental drudgery, punishment or coercion of women and girls. • Restriction of women's rights or access to resources (natural or economic). • Recognise women's ownership rights regardless of marital status – adopt project measures where possible to support to women's access to inherit and own land, homes, and other assets or natural resources. 3. Projects shall apply the principles of nondiscrimination,		
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		equal treatment, and equal pay for equal work, specifically: • Where appropriate for the implementation of a Project, paid, volunteer work or community contributions will be organised to provide the conditions for equitable participation of men and women in the identified tasks/activities. • Introduce conditions that ensure the participation of women or men in Project activities and benefits based on pregnancy, maternity/paternity leave, or marital status. • Ensure that these conditions do not limit the access of women or men, as the case may be, to Project participation and benefits. 4. The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks.		
	3.3 Principle 3 – Community Health, Safety and Working Conditions	The Project shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community.	No	The project activity is a renewable energy generation project and does not increase any health risks and not adversely affecting the health of the workers and the community. Necessary health and safety measures is taken during construction and operation phase, relevant staff is trained to be able to work with high voltages and heights ^{16/} .
	3.4 Principle 4 – Cultural Heritage,	Does the Project Area include sites, structures, or	No	No cultural heritage is observed on the project site.

	Indigenous Peoples, Displacement and Resettlement 3.4.1 Sites of Cultural and Historical Heritage	objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, or practices)?		
	3.4.2 Forced Eviction and Displacement	Does the Project require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?	No	The land was allotted by the Government authorities to the developer by completing all requirements of prevailing rules and regulations. Thus project does not require or cause the physical or economic relocation of peoples.
	3.4.3 Land Tenure and Other Rights	1. Does the Project require any change to land tenure arrangements and/or other rights? 2. For Projects involving land-use tenure, are there any uncertainties with regards land tenure, access rights, usage rights or land ownership? Examples include, but are not limited to water access rights, community-based property rights and customary rights.	No	The barren/non-cultivated land was allotted by the Government authorities to the developer by completing all requirements of prevailing rules and regulations. Thus, project does not have impact on land tenure or land use etc.
	3.4.4 Indigenous Peoples	Are indigenous peoples present in or within the area of influence of the Project and/or is the Project located on land/territory claimed by indigenous peoples	No	The land is allotted by the Government authorities to the developer by completing all requirements of prevailing rules and regulations. The project is having positive impact on the local peoples by employment generation and other ancillary business opportunities in the area.
	3.5 Principle 5 – Corruption	(a) Does not recognise Projects that engage in, contribute to or reinforce corruption of any kind.	No	The project is renewable energy technology and does not contribute to or reinforce corruption of any kind.

		The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects.		
	3.6 Principle 6 – Economic Impacts 3.6.1 Labour Rights	1. The Project Developer shall ensure that there is no forced labour and that all employment is in compliance with national labour and occupational health and safety laws, with obligations under international law, and consistency with the principles and standards embodied in the International Labour Organization (ILO) fundamental conventions. Where these are contradictory and a breach of one or other cannot be avoided, then guidance shall be sought from Gold Standard. 2. Workers shall be able to establish and join labour organisations. 3. Working agreements with all individual workers shall be documented and implemented. These shall at minimum comprise: (a) Working hours (must not exceed 48 hours per week on a regular basis), AND (b) Duties and tasks, AND (c) Remuneration (must include provision for payment of overtime), AND (d) Modalities on health insurance, AND (e) Modalities on termination of the	No	The safeguarding principle is not impacted by the project activity because all the laws towards labour rights are in place in India. PP management is abide to it, therefore, the PP is not monitoring. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.

		contract with provision for voluntary resignation by employee, AND (f) Provision for annual leave of not less than 10 days per year, not including sick and casual leave. 4. The Project Developer shall justify that the employment model applied is locally and culturally appropriate. 5. Child labour, as defined by the ILO Minimum Age Convention is not allowed. The Project Developer shall use adequate and verifiable mechanisms for age verification in recruitment procedures. Exceptions are children for work on their families' property as long as: (a) Their compulsory schooling (minimum of 6 schooling years) is not hindered, AND (b) The tasks they perform do not harm their physical and mental development, AND (c) The opinions and recommendations of an Expert Stakeholder shall be sought and demonstrated as being included in the Project design. 6. The Project Developer shall ensure the use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and		
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		emergency preparedness and response measures.		
	3.6.2 Negative Economic Consequences	Is project involves Negative Economic Consequences 1. The Project Developer shall demonstrate the financial sustainability of the Projects implemented, also including those that will occur beyond the Project Certification period. 2. The Projects shall consider economic impacts and demonstrate a consideration of potential risks to the local economy and how these have been taken into account in Project design, implementation, operation and after the Project. Particular focus shall be given to vulnerable and marginalised social groups in targeted communities and that benefits are socially-inclusive and sustainable.	No	The safeguarding principle is not impacted by the project activity because the project does not impact the local economy. The project is financial sustainable beyond certification period. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
	4.1.1 Emissions	Will the Project increase greenhouse gas emissions over the Baseline Scenario?	No	The project reduces the amount of fossil fuel used for electricity generation in absence of renewable source and therefore mitigates GHGs. The parameter is monitored based on the operational status of the project by electricity generated from wind power plant. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
	4.1.2 Energy	Will the Project use energy from a local	No	The safeguarding principle is not impacted by the

	Supply	grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?		project activity because the project does not use grid power rather generate electricity and supply to regional grid. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
	4.2.1 Impact on natural water patterns and flow	Will the Project affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	No	The safeguarding principle is not impacted by the project activity because the project does not affect ground water, watershed of the area etc. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
	4.2.2 Erosion and/or water body stability	1. Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion? If 'Yes' or 'Potentially' proceed to question 2. 2. Is the Project's area of influence susceptible to excessive erosion and/or water body instability?	No	The safeguarding principle is not impacted by the PA in a negative way. Therefore, the PP is not monitoring. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
	4.2.3 Landscape modification and soil	Does the Project involve the use of land and soil for production of crops or other products?	No	The safeguarding principle is not impacted by the PA because the project implemented in barren land. Therefore, the PP is not monitoring. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
	4.3.2 Vulnerability to Natural Disaster	Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or	No	The safeguarding principle is not negatively impacted by the PA. It will protect the ecosystem around the activity area, which in turn will protect against natural disasters. Therefore, the PP is not monitoring. Since safeguarding principle is not impacted

	other extreme climatic conditions?		negatively, the verification team found it acceptable for PP to not monitor this principle.
4.3.3 Genetic Resources	Could the Project be negatively impacted by the use of genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development)?	No	The safeguarding principle is not impacted by the PA, therefore the PP is not monitoring. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
4.3.4 Release of pollutants	Could the Project potentially result in the release of pollutants to the environment?	No	The safeguarding principle is not impacted by the PA; being renewable energy generation. The verification team found it acceptable for PP to not monitor this principle.
4.3.5 Hazardous and Non-hazardous Waste	Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	No	The safeguarding principle is not impacted by the PA; being renewable energy generation. The verification team found it acceptable for PP to not monitor this principle.
4.3.6 Pesticides and fertilizers	Will the Project involve the application of pesticides and/or fertilisers?	No	The safeguarding principle is not impacted by the PA; being renewable energy generation. The verification team found it acceptable for PP to not monitor this principle.
4.3.7 Harvesting of forests	Will the Project involve the harvesting of forests?	No	The safeguarding principle is not impacted by the PA because no forests are harvested during this project; therefore, the PP is not monitoring. Since safeguarding principle is not impacted, the verification team found it acceptable for PP to not monitor this principle.
4.3.8 Food	Does the Project modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	No	The safeguarding principle is not impacted by the PA; being renewable energy generation. The verification team found it acceptable for PP to not monitor this principle.
4.3.9	Will the Project	No	The safeguarding principle

	Animal Husbandry	involve animal husbandry?		is not impacted by the PA; being renewable energy generation. The verification team found it acceptable for PP to not monitor this principle.
	4.3.10 High Conservation Value Areas and Critical Habitats	Does the Project physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	No	The safeguarding principle is not impacted by the PA; being renewable energy generation and not affecting or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas. The verification team found it acceptable for PP to not monitor this principle.
	4.3.11 Endangered Species	1. Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)? 2. Does the Project potentially impact other areas where endangered species may be present through transboundary affects?	No	The safeguarding principle is not impacted by the PA; being renewable energy generation and not affecting endangered species or transboundary movements of the migratory birds/animals. The verification team found it acceptable for PP to not monitor this principle.
Findings		CAR 07 was raised and resolved.		
Conclusion		All the safeguarding principles have been monitored appropriately by the implementer.		

E.9. Assessment of data and calculation of emission reductions or net removals

E.9.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The baseline emissions are calculated as per provisions indicated in the registered PDD & Transition Annex ^{/1/} and applied methodology^{/3/}. Baseline emissions are calculated as follows: $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ 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 CDM project activity in year y (MWh/yr). $EF_{grid,CM,y}$ = Baseline emission factor $= 0.9770 \text{ tCO}_2/\text{MWh}$ $BE_y = 328,221 \times 0.9770$ $= 320,672 \text{ tCO}_2$ The value of baseline emission achieved after applying the formulae is 320,672
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	tCO₂e (Rounddown value). All the data was made available and have monitored as per required monitoring frequency. The baseline emissions are calculated as per provisions indicated in the registered PDD & Transition Annex ^{/1/} and applied methodology^{/3/}. The means of verification for the values of parameters, used for baseline emission calculation, is described in the section E.6.2 of this report. The expressions given in this regard under section E.1 of MR^{/6/} were found consistent with the registered PDD & Transition Annex ^{/1/} and applied methodology^{/3/}. The explanation of formulae in the MR^{/6/} and ER sheet^{/7/} is adequate and consistent.
Findings	CAR 03 was raised and closed successfully.
Conclusion	The verification team confirms that appropriate methods and formulae for calculating baseline emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified.

E.9.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the registered GS project activity. 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 registered monitoring plan ^{/1/} .
Findings	No findings raised
Conclusion	Project emission is zero as per the requirement of the methodology and registered PDD & Transition Annex ^{/1/} .

E.9.3. Calculation of leakage GHG emissions

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the registered GS project activity. 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 registered monitoring plan.
Findings	No findings were raised.
Conclusion	The leakage emissions are regarded as zero according to the applied methodology ^{/3/} and registered PDD & Transition Annex ^{/1/} .

E.9.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	The final verified Emission Reductions in the current monitoring period are as under; <table border="1"> <tr> <td>Monitoring Period</td><td>01/04/2018 to 30/09/2019 (Inclusive of both days)</td></tr> <tr> <td>Baseline Emissions</td><td>320,672 tCO₂e</td></tr> <tr> <td>Project Emissions</td><td>0 tCO₂e</td></tr> <tr> <td>Leakage Emissions</td><td>0 tCO₂e</td></tr> <tr> <td>Emission Reductions</td><td>320,672 tCO₂e</td></tr> </table> The value of baseline emission obtained by applying the equations provided in the registered PDD & Transition Annex ^{/1/} are 320,672 tCO₂e. The project emissions and leakages for the project activity are considered as zero. Therefore, the final value of net GHG emission reductions obtained is 320,672 tCO₂e.	Monitoring Period	01/04/2018 to 30/09/2019 (Inclusive of both days)	Baseline Emissions	320,672 tCO ₂ e	Project Emissions	0 tCO ₂ e	Leakage Emissions	0 tCO ₂ e	Emission Reductions	320,672 tCO₂e
Monitoring Period	01/04/2018 to 30/09/2019 (Inclusive of both days)										
Baseline Emissions	320,672 tCO ₂ e										
Project Emissions	0 tCO ₂ e										
Leakage Emissions	0 tCO ₂ e										
Emission Reductions	320,672 tCO₂e										
Findings	No findings										
Conclusion	a) A complete set of data for the specified monitoring period was available, on all occasions based on the activity level of the parameters;										

	b) The information provided in the monitoring report^{/6/} and corresponding spreadsheet^{/7/} has been cross checked; c) The assessment team confirms that the formulae for calculating baseline and project emissions (BE and PE) are in accordance with monitoring plan contained in the registered PDD & Transition Annex^{/1/} and applied methodology^{/3/}. d) There are no leakages in accordance with applied methodology and registered PDD & Transition Annex^{/1/}. e) The assumptions/emission factors used in emission calculations have been correctly applied and are justified.
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E.9.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	The actual emission reduction achieved in this monitoring period is 320,672 tCO ₂ e, whereas the estimated ERs as per the registered PDD & Transition Annex ^{/1/} is 264,738 tCO ₂ e for this monitoring period. Actual emission reduction is 21.13% higher than the emission reductions for the considered monitoring period.
Findings	CAR 04 was raised and resolved.
Conclusion	Justification of higher emission reductions have been provided in the section E.6 of the MR ^{/6/} . The explanation was found satisfactory. Thus, the comparison between the actual GHG emission reductions and the estimated GHG emission reductions was found to be ok.

E.9.6. Remarks on difference from estimated value in registered PDD

Means of verification	The actual emission reduction achieved in the monitoring period is 320,672 tCO ₂ e, whereas the estimated ERs in the registered PDD & Transition Annex ^{/1/} is 264,738 tCO ₂ e. Actual emission reduction is 21.13% higher than the emission reductions for the considered monitoring period.
Findings	CAR 04 was raised and resolved.
Conclusion	The generation of electricity depends upon the wind availability, which affects PLF, and not within the control of the project participant. Further, current monitoring period included the months from April to July wherein maximum PLF is achieved (peak generation period). Moreover, actual ER achieved were also 5.99% higher in previous verification i.e. 2nd verification period^{/12/}. This variation is majorly due to the variations in climatic conditions, grid availability and other parameters, which, are not in the control of PP. However, during this monitoring period the achieved GHG emissions are 21.13 % is higher than the estimated value^{/7/}. Thus, the increased PLF during this monitoring period (Observed PLF is 24.84%) is crossed checked with the IRR breaching values for PLF (Breaching PLF value 27.3% and the observed PLF value is 24.84%), the result found within the breaching limit of the PLF as per the registered PDD^{/1/}. Verification team also checked during site visit and confirmed that no change in project design occurred since installation of project, which can affect generation of electricity. Hence, verification team confirmed that project is still additional, increase in PLF during this monitoring period will not have any bearing on additionality.

E.9.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	The verification team has determined the GHG emission reductions achieved during first commitment period and second commitment period
Findings	There is no CAR/CL raised in this section.
Conclusion	1. GHG emission reductions or net GHG removals by sinks reported up to 31

	December 2012: 0 tCO ₂ e
	2. GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards: 320,672 tCO ₂ e

E.10. Assessment of reported sustainable development co-benefits

Means of verification	NA
Findings	NA
Conclusion	NA

E.11. Global stakeholder consultation

Means of verification	NA
Findings	NA
Conclusion	NA

SECTION F. Internal quality control

The draft verification report that is prepared by verification team is reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by Earthood were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable CDM/GS rules/requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the verification team.

During the technical review process additional findings may be identified or the closed-out findings may be opened, which needs to be satisfactorily resolved before the request for issuance is submitted to UNFCCC/GS. The independent technical reviewer may either approve the report as such or reject/return the same in such case providing the comments/findings/issues that needs to be resolved by the verification team. The decision taken by the Technical Reviewer is final and is authorized on behalf of Earthood Services Private Limited.

SECTION G. Verification opinion

Earthood Services Private Limited (Earthood), contracted by Orange Mamatkhedha Wind Private Limited (OMWPL), has performed the independent verification of the emission reductions for the GS project activity GS 3969 "100.5 MW Wind Power Project in Madhya Pradesh, India" in India for the monitoring period 01/04/2018 to 30/09/2019 (including both days) as reported in the Monitoring Report (public) Version 1 dated 18/10/2019 and Monitoring Report (Final) Version 03 dated 01/05/2020. Orange Mamatkhedha Wind Private Limited (OMWPL) is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity.

Earthood commenced the verification on the basis of the baseline and monitoring methodology ACM0002: Grid-connected electricity generation from renewable sources Version 16.0, the monitoring plan contained in the Registered PDD & Transition Annex ^{/1/} and GS MR Version 03 dated 01/05/2020.

Earthood's verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Earthood planned and performed the verification by obtaining evidence and other information and explanations that Earthood considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

The verification team confirms that the project activity was found completely implemented as per the description given in the registered PDD & Transition Annex ^{/1/} and the actual operation conforms to the description in the registered PDD & Transition Annex ^{/1/}.

SECTION H. Certification statement

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity.

In our opinion the GHG emissions reductions reported for the project activity for the period 01/04/2018 to 30/09/2019 (including both days) are fairly stated in the Monitoring Report (final) Version 03 dated

01/05/2020. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002: Grid-connected electricity generation from renewable sources Version 16.0 and the monitoring plan contained in the Registered PDD & Transition Annex¹¹.

Earthood Services Private Limited is able to certify that the emission reductions from the GS project activity GS 3969 "100.5 MW Wind Power Project in Madhya Pradesh, India" in India during the period 01/04/2018 to 30/09/2019 (including both days) amount to 320,672 tCO₂e.

Verified and certified emission reductions (for current monitoring period) as per commitment period:

Commitment period	Amount
Upto 31/12/2012 (1 st commitment period)	Nil
From 01/01/2013	320,672 tCO ₂ e

Vintage Breakup:

Vintage	Value	Unit
01/04/2018 to 31/12/2018	168,184	tCO ₂ e
01/01/2019 to 30/09/2019	152,488	tCO ₂ e
Total	320,672	tCO₂e

Appendix 1. Abbreviations

Abbreviations	Full texts
AS	Accreditation Standard
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM PCP for PA	Clean Development Mechanism Project Cycle Procedure for Project Activities
CDM PS for PA	Clean Development Mechanism Project Standard for Project Activities
CDM VVS for PA	Clean Development Mechanism Validation and Verification Standard for Project Activities
CEA	CENTRAL ELECTRICITY AUTHORITY
CER	Certified Emission Reduction(s)
CL	Clarification Request
CPCB	Central Pollution Control Board
DOE	Designated Operational Entity
DNA	Designated National Authority
EB	Executive Board
Earthood	Earthood Services Private Limited
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
GOI	Government Of India
GS	Gold Standard
IR	Internal Resource
IPCC	Intergovernmental Panel on Climate Change
MOEF	Ministry of Environment and Forests
MR	Monitoring Report
MW	Mega Watt
NTPC	National Thermal Power Corporation
PA	Project Activity
PDD	Project Design Document
PP	Project Participants
PPA	Power Purchase Agreement
PGCIL	Power Grid Cooperation of India Limited
QA/QC	Quality Assurance / Quality Control
MP	Monitoring Plan
SEB	State Electricity Board
tCO ₂ e	tonnes of Carbon dioxide equivalent
UNFCCC	United Nations Framework Convention on Climate Change
VCR	Verification and Certification Report

Appendix 2. Competence of team members and technical reviewers

Competence Statement			
Name	Atul Takarkhede		
Education	Ph.D. Environmental Science		
Experience	12 years		
Field	Climate Change and environment		
Approved Roles			
Team Leader	YES		
Validator	NO		
Verifier	NO		
Methodology Expert	NO		
Local expert	NO		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert	YES (1.2)		
Reviewed by	Shreya Garg	Date	24/04/2019
Approved by	Anshika Gupta	Date	25/04/2019

Competence Statement			
Name	Sanjeev Kumar		
Country	India		
Education	B. Tech. (Chemical Engineering) M.Tech. (Energy Management)		
Experience	13.5 years +		
Field	Climate Change, Environment, Energy		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	YES (ACM0002, ACM0006, ACM0004, ACM0009, ACM0012, ACM0001, AMS I.D, AMS I.F, AMS I.C, AMS I.A, AMS II.D, AMS II.E, AMS III.H, AM0009, AM0013, AM0025, AM0056, AM0028, AM0029, AM0008)		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	YES (TA 1.1, TA 1.2, 4.1, 13.1)		
Reviewed by	Shreya Garg	Date	13/12/2018
Approved by	Anshika Gupta	Date	13/12/2018

Competence Statement	
Name	Anshika Gupta
Country	India

Education	M.Sc. (Climate Science & Policy), TERI University		
Experience	4 Years +		
Field	Climate Change		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	AMS-I.A., AMS-II.G., ACM0002, AMS-III.A.V.		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	Yes (TA 1.2, TA 3.1)		
Reviewed by	Shreya Garg	Date	12/03/2019
Approved by	Kaviraj Singh	Date	12/03/2019

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	PP	Registered PDD Gold Standard for the Global Goals Transition Annex for GS3969	Dated 21/12/2015 Version 2.00 NA	Others
2.	TUV Rheinland	GS Validation report	version 01 dated 31/03/2016	Others
3.	UNFCCC	ACM0002: Grid-connected electricity generation from renewable sources	Version 16.0	Others
4.	UNFCCC	CDM project standard for project activities	Version 02	Others
5.	UNFCCC	CDM Validation and Verification Standard for project activities	version 02	Others
6.	PP	Monitoring Report (Published) Monitoring Report (Revised) Monitoring Report (Final after GS Review)	Version: 01 Dated: 18/10/2019 Version: 02 Dated: 23/03/2020 Version: 03 Dated: 01/05/2020	PP
7.	PP	ER sheet ER sheet (Revised) ER sheet (Final after GS Review)	Version: 01 Dated: 18/10/2019 Version: 02 Dated: 19/02/2020 Version: 03 Dated: 01/05/2020	PP
8.	MPPTCL	Commissioning certificates for the project activity by MP Power Transmission Co. Ltd.	Dated 07/11/2014, 20/08/2014 & 05/04/2015	PP
9.	MPPKVVCL	JMR (monthly generation) by Madhya Pradesh Poorv Kshetra Vidyut Vitran Company Limited for complete monitoring period	-	PP
10.	PP	Invoices raised by PP covering monitoring period	-	PP
11.	PP	O&M reports for controller meter readings (DGR)	-	PP
12.	Applus KBS	2 nd Verification report 1 st Verification report	Version 03 Dated 09/07/2018 Report No. GS.16.VER.005 dated 13/10/2017	PP
13.	UNFCCC	CDM-MR-FORM	version 7.0	Others
14.	CEA	CEA database	Version 10	Others
15.	MPPTCL	Test/Calibration certificates for meters	05/02/2016, 10/12/2018, 20/03/2019	PP
16.	PP	Training records submitted by PP	-	PP
17.	PP	Breakdown record for the monitoring period	-	PP
18.	PP & State Utility	Power Purchase Agreement	14/08/2014	PP

No.	Author	Title	References to the document	Provider
19.	NA	Onsite visit to site		NA
20.	NA	Employment records submitted by PP	-	NA
21.	GS	GOLD STANDARD FOR THE GLOBAL GOALS - Principles & Requirements, Version 1.2 Renewable Energy Activity Requirements	Version 1.2 Version 1.2	Other
22.	PP	Grievance Register maintained at plant	NA	PP

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CAR/CL from this verification

CL ID	01	Section no.	E.1	Date: 09/12/2019
Description of CAR				
PP requested to clarify the Crediting period chosen for the project activity. Further, PP requested to submit GS registration and previous verification documents for the project activity.				
Project participant response				Date: 11/02/2020
The crediting period of the project activity is 01/01/2015 to 31/12/2021. The same can be checked from the link https://registry.goldstandard.org/projects/details/686 The 1 st monitoring period is from 01/01/2015 to 31/03/2016 The 2 nd monitoring period is from 01/04/2016 to 31/03/2018 The 3 rd monitoring period is from 01/04/2018 to 30/09/2019 Further PP shall submit the GS registration and previous verification documents for the project activity along with this submission.				
Documentation provided by project participant				
GS PD 1 st and 2 nd monitoring report with their verification reports GS4GG Performance Review for both the monitoring periods				
DOE assessment				Date: 18/03/2020
Explanation and information submitted is found correct. CL thus closed.				

CAR ID	02	Section no.	E.3	Date: 09/12/2019
Description of CAR				
Commissioning dates of the WTGs are ranging from 20/08/2014 to 28/04/2015. However, WTG wise details are missing in the MR. Correction requested. Also, PP requested to submit commissioning certificates of the project activity.				
Project participant response				Date: 11/02/2020
The commissioning dates of each WTG is now incorporated in the section A.2 of the revised MR version 2.0. The commissioning certificates shall also be submitted along with this submission.				
Documentation provided by project participant				
Commissioning certificates				
DOE assessment				Date: 18/03/2020
PP have submitted commissioning certificates and revised MR with commissioning date of each WTG. Same are found correct. CAR closed.				

CAR ID	03	Section no.	E.6.2	Date: 09/12/2019
Description of CAR				

There is an error found in the 'ER calculation' Sheet, for SEP-19, cell 'K21'. Corrections requested in the ER sheet.	
Project participant response	Date : 11/02/2020
The error in the 'ER calculation' Sheet, for SEP-19, cell 'K21' is corrected now.	
Documentation provided by project participant	
Revised ER Sheet	
DOE assessment	Date: 18/03/2020
PP have submitted revised ER sheet removing error. CAR closed.	

CAR ID	04	Section no.	E.9.6	Date: 09/12/2019
Description of CAR				
PP requested to justify the impact of the increased PLF on the additionality of the project activity.				
Project participant response				Date: 11/02/2020
The actual achieved emission reduction for this monitoring period is slightly more than estimated value in the PDD which leads to the increased actual PLF of 24.83% increase in the emission reduction. The estimated PLF is 20.50% i.e. 4.33% higher which is within sensitivity range and hence it does not have any material impact on the additionality. The section E.6 of the MR reflects the same.				
Documentation provided by project participant				
Monitoring report				
DOE assessment				Date: 18/03/2020
Assessment team reviewed the justification for the higher emission reduction and its impact on the additionality of the project activity. Since, increased PLF is within sensitivity range, same accepted by assessment team. CAR closed.				

CAR ID	05	Section no.	E.6.2	Date : 09/12/2019
Description of CAR				
PP requested to submit employment records including attendance sheets and salary slips for verification by assessment team.				
Project participant response				Date : 11/02/2020
The employment records shall be submitted along with this submission				
Documentation provided by project participant				
Sample Salary Slip during the monitoring period Employment contract from ReGen Powertech				
DOE assessment				Date: 18/03/2020
Employment records are provided by the PP now and the information provided in the MR is consistent with the submitted records. CAR closed.				

CAR ID	06	Section no.	E.6.2	Date : 09/12/2019
Description of CAR				
PP requested to submit records of the trainings provided to the employees.				
Project participant response				Date : 11/02/2020
The records of the trainings provided to the employees like attendance sheet and the feedback reports shall be submitted along with this submission				
Documentation provided by project participant				
Revised MR Attendance sheet and Feedback report				
DOE assessment				Date: 18/03/2020
Training records are provided by the PP now and the information provided in the MR is consistent with the submitted records. CAR closed.				

CAR ID	07	Section no.	E.8	Date: 09/12/2019
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Description of CAR	
PP requested to submit Grievance registrar maintained.	
Project participant response	Date: 11/02/2020
The Grievance register shall be submitted along with this submission.	
Documentation provided by project participant	
Grievance register	
DOE assessment	Date: 18/03/2020
PP have submitted the grievance register and found that no major complaint/grievance raised by any stakeholder. CAR thus closed.	

FAR ID	08	Section No.	E.9.6	Date : 01/05/2020
Description of FAR				
Below FAR have been raised during GS Review round: VVB shall check the data for the subsequent verification for any increase in the PLF of the project activity and its impact on the additionality of the project activity.				
Project participant response				Date : DD/MM/YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Appendix 5. Calibration Details

Details	Main meter	Check meter	Calibration Compliance
Meter Number	MPC65127	MPC65126	-
Make	Secure	Secure	-
Accuracy class	0.2S	0.2S	-
Location	Substation	Substation	-
Date of calibration	11/12/2017	11/12/2017	-
Validity	10/12/2018	10/12/2018	Delay 11/12/2018 to 19/03/2019
Date of Calibration	20/03/2019	20/03/2019	-
Validity	19/03/2020	19/03/2020	-

Document information

Version	Date	Description
03.0	31 May 2019	Revision to: - Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN); - Make structural and editorial improvements.

Version	Date	Description
02.1	11 January 2018	Editorial revision to correct the numbering of appendices in the instructions.
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.

Decision Class: Regulatory

Document Type: Form

Business Function: Issuance

Keywords: project activities, verifying and certifying

History of the document*						
Version	Date of issue	Nature of Revision	Prepared by		Reviewed by	
			Name	Date	Name	Date
2.0	11/06/2019	Adoption of latest forms	Shreya Garg	11/06/2019	Anshika Gupta	13/06/2019
1.0	04/05/2018	Guidelines updated	Shreya Garg	04/05/2018	Anshika Gupta	04/05/2018
*This table is for ESPL internal document control purpose only						