

TEMPLATE

MONITORING REPORT

PUBLICATION DATE **14.10.2020**

VERSION **v. 1.1**

RELATED SUPPORT - **TEMPLATE GUIDE Monitoring Report v. 1.1**

This document contains the following Sections

Key Project Information

SECTION A - Description of project

SECTION B - Implementation of project

SECTION C - Description of monitoring system applied by the project

SECTION D - Data and parameters

SECTION E - Calculation of SDG Impacts

SECTION F - Safeguards Reporting

SECTION G - Stakeholder inputs and legal disputes

KEY PROJECT INFORMATION

Key Project Information

GS ID (s) of Project (s)	GS6290
Title of the project (s) covered by monitoring report	200 MW Wind Power Project in Tamil Nadu by Orange Sironj
Version number of the PDD/VPA-DD (s) applicable to this monitoring report	5.0
Version number of the monitoring report	04
Completion date of the monitoring report	30/08/2024
Date of project design certification	26/11/2019
Date of Last Annual Report	06/12/2022
Monitoring period number	04 (For 1 st CP)
Duration of this monitoring period	01/01/2022 to 31/12/2022 (Both days included)
Project Representative	Infinite Environmental Solutions Limited
Host Country	India
Activity Requirements applied	☐ Community Services Activities ☒ Renewable Energy Activities ☐ Land Use and Forestry Activities/Risks & Capacities ☐ N/A
Methodology (ies) applied and version number	ACM0002 "Grid-connected electricity generation from renewable sources" (Version 18.1, EB 99 Annex 1) ¹
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A

¹ <https://cdm.unfccc.int/UserManagement/FileStorage/2L9KQXT6HGREGJWO84VD0IPYB7U5SMA>

Table 1 - Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units/ Products
SDG 7: Affordable and Clean Energy	MWh of renewable energy generated	530,885.97	MWh
SDG 8: Decent Work and Economic Growth	Trainings	21 Training	No of Training
	Employees	77 employees	No of Employees
	Income (INR)	INR 104,849,000	INR
SDG 13: Climate Action (mandatory)	Emission Reduction	512,411 tCO ₂ e	VERs

Table 2 – Product Vintages

		Amount Achieved
Start Dates	End Dates	SDG 13: Climate Action (VERs) tCO ₂
01/01/2022	31/12/2022	512,411

SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

The project activity of installing 200 MW wind turbine in Poovani Village, Thootukudi (Tuticorin), Tamil Nadu is a green initiative by the Orange Sironj Wind Power Pvt Limited. The project activity utilized wind energy in generation of electricity, which is supplied to the Indian Grid. The project had entered power purchase agreement with Solar Energy Corporation of India (SECI) and the power is sold to SECI. The project is replacing anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 613,884 tCO₂e per annum, thereon displacing 635,976 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian electricity grid, which is mainly dominated by thermal/ fossil fuel-based power plant. Whereas in this monitoring period actual the project activity produces 530,885.97 MWh of Power, thereby reducing 512,411 tCO₂e GHG emission reductions that would have been emitted by the grid-connected thermal power plant in the absence of the project activity. The project activity involves installation of 100 nos of 2MW WTGs of Gamesa make, (model - G114/2000kW IEC Class S model year version with 106m height of tower) with total installed capacity of 200 MW.

The project proponent had placed operation and maintenance contract with the WTG Suppliers (Siemens Gamesa Renewable Private Limited (Gamesa)) for the operation and maintenance the WTGs. The supplier has a very good and skillful O and M team for the daily plant maintenance and operation during all circumstances. The commissioning details of the WTG's are mentioned below

WTGs (Nos)	Commissioning date	Commercial operation as per SECI
50	05/03/2019	07/03/2019
50	13/03/2019	14/04/2019

Scenario existing prior to the implementation of the project activity

As the project activity is the installation of a new grid-connected renewable power plant/unit. The scenario existing prior to the implementation of project activity 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, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system" (Version 07).

Baseline Scenario

Baseline scenario and Scenario existing prior to the implementation of the project activity are both same.

Project Contribution to Sustainable development:

The National CDM Authority (NCDMA), which is the Designated National Authority (DNA) for the Government of India (GOI) under the Ministry of Environment, Forest and Climate Change (MoEFCC), has mentioned four indicators for the sustainable development in the interim approval guidelines for Clean Development Mechanism (CDM) projects from India. Thus, the project's contribution towards sustainable development has been addressed based on the following sustainable development aspects:

• Social well-being:

The project activity provides job opportunity to local people during erection, commissioning and maintenance of the Wind power project. Frequency of visiting to villages and nearby areas by skilled, technical and industrialist has increased due to installation /site visit/operation and maintenance work related to WTGs at plant site. This directly and indirectly positively effects the economy of nearby populace.

• Environmental well-being:

Wind power is one of the cleanest renewable energy powers and does not involve any fossil fuel. There are no GHG emissions. The impact on land, water, air and soil is negligible. Thus, the project activity contributes to environmental well-being without causing any negative impact on the surrounding environment.

• Economic well-being:

The project activity generates permanent and temporary employment opportunity within the vicinity of the project. The electricity supply in the nearby area improves which directly and indirectly improves the economy and life style of the area.

• Technological well-being:

The project activity is step forward in harnessing the untapped wind potential and further diffusion of the Wind technology in the region. The project activity leads to the promotion and demonstrates the success of wind projects in the region which further motivate more investors to invest in Wind power projects. Hence, the project activity leads to technological well-being.

The present monitoring period is from 01/01/2022 to 31/12/2022 through which emission reduction claimed is 512,411 tCO₂e and there are no negative environmental and social impacts and grievances during the plant operation.

The Emission Reductions as per the vintage break-up (2022) in the monitoring in the following format:

01/01/2022 to 31/12/2022: 512,411 tCO₂e.

A.2. Location of project

The project activity is located in Poovani village, district Thoothukudi (Tuticorin), Tamil Nadu. The exact project locations are S. Kumarapuram, Puthiumputhur, Ottapidaram, Swamyathalam, P. Duraisamipuram, Vellaram, Kathcheri Thalavaipuram, Panchalankuruchi, Singathakurichi, Sekkarakudi, Vadakkukaruseri, Ummarikottai, Ramaswamyapuram, Jampulingapuram Villages of Poovani Dist. Thoothukudi, Tamil Nadu state in India. The coordinates of the project activity are as mentioned in Appendix III.

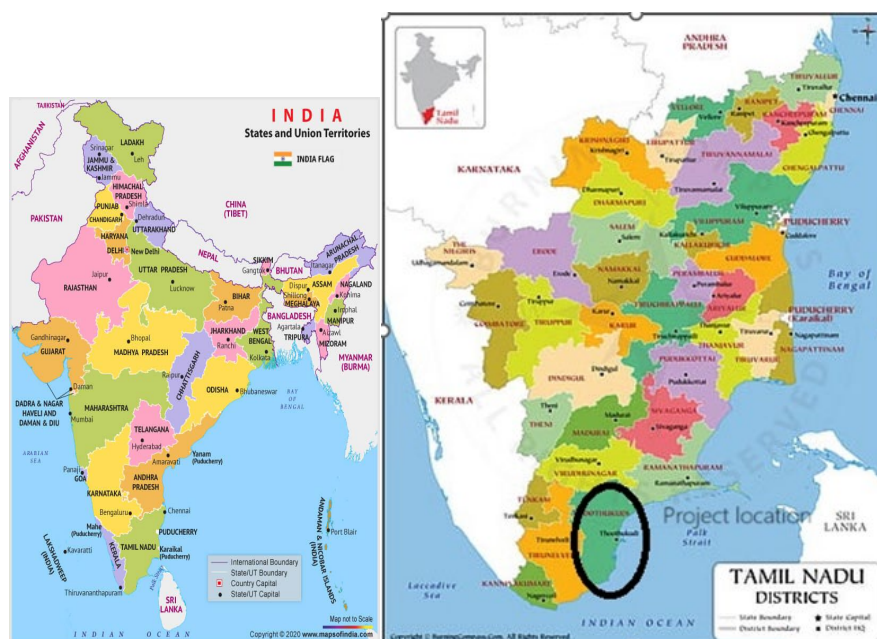


Figure 01: India map (Left) and Tamil Nadu state map (Right) with Project location

A.3. Reference of applied methodology

Title: Grid-connected electricity generation from renewable sources

References: Approved Large-Scale Consolidated Methodology: ACM0002 "Grid-connected electricity generation from renewable sources" (Version 18.1)².

Tools:

Tool for the demonstration and assessment of additionality (Tool 1)- Version 7.0³.

Tool to calculate the emission factor for an electricity system (Tool 7)- Version 7.0⁴.

A.4. Crediting period of project

Type of crediting period: Renewable

Start date of crediting period: 07/03/2019⁵

End date of crediting period: 06/03/2024

Length of crediting period: 5 years

SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

The implementation schedule of the project activity is detailed below:

The project activity comprises of 100 nos. of 2 MW WTGs of Gamesa make (model - G114/2000kW IEC Class S model year version with 106m height of tower) with total installed capacity of 200 MW.

Commissioning Dates of the first 50 WTGs is 05/03/2019 and the remaining 50 WTGs is 13/03/2019. (Refer Appendix II for details & location numbers). As per commissioning certificates by SECI, the commercial operations of the project started from 07/03/2019. The project is connected by 230 kV, 2 x100 MVA substation and the site substation is connected to PGCIL: North Vandanam SS (Tuticorin- II 400/230 KV GIS Substation). The feeder details of the WTG are given in the appendix II The project has already

²<https://cdm.unfccc.int/UserManagement/FileStorage/2L9KQXT6HGREJWO84VD0IPYB7U5SMA>

³<https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

⁴<https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.0.pdf>

⁵ As per commissioning certificate by SECI the plant is connected on 05/03/2019, however started commercial operation on 07/03/2019.

started reducing GHG emissions, through its 5-year crediting period and the present monitoring period is proposed from 01/01/2022 to 31/12/2022.

Technical Specifications of the WTG:

Parameter	Specification
Model: G114-2.0 MW CS Max Power	
General data	
Make of WTG	Gamesa
Number of Blades	3
Design Conditions of WTGs	
Rated Power (MW)	2
Annual Average wind speed(m/s)	6.5
Turbulence intensity (%)	18
Reference 10-minute wind speed in 50 years(m/s)	40
Extreme wind speed in 50 years over a 3-second average(m/s)	56
Hub Height(m)	106
Rotor	
Pitch control hydraulic system	Independent hydraulic actuators for each blade that provide a rotation capacity of between -5° and 87° and a system of accumulators which ensure feathering in the event of an emergency
Diameter(m)	114
Swept Area(m ²)	10,207
Wind speed(rpm)	13.07
Blades	
Length	56m
Weight (t) t, min -1.5	11.5
Blade cord (maximum/ minimum) (m)	3.865
Torsion ($^{\circ}$)	Max 25, min -1.5
Gearbox	
Type	1 stage planetary / 2 parallel
Generator	

Type	Asynchronous double-feed unit with 4 poles, coil rotor and slip rings.
Nominal power (kW)	2,170 (stator + rotor)
Voltage (Vac)	690
Frequency (Hz)	50 / 60
Transformer	
Type	Three-phase, dry-type encapsulated
Frequency (Hz)	50 / 60
Insulation class	F or H

B.1.1 Forward Action Requests

FAR raised during previous (3rd) verification period.

FAR01: VVB shall resume onsite in the next verification.

Rectification: The physical site visit was conducted on 31/10/2023 to 01/11/2023 during the current monitoring period (01/01/2022 to 31/12/2022).

B.2. Post-Design Certification changes

B.2.1. Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

There is no deviation in the monitoring and reporting plan, methodology and standardized baseline.

B.2.2. Corrections

Correction 1 –

In the registered PDD, a typographical error was there regarding the emission factor nomenclatures in section B.6.3, where $EF_{OM,y}$, $EF_{BM,y}$, and $EF_{CM,y}$ were erroneously stated instead of $EF_{grid,OM,y}$, $EF_{grid,BM,y}$, and $EF_{grid,CM,y}$ which are in line with tool 07 version 7.0. However, it's important to note that throughout the rest of the PDD, the correct nomenclatures were used.

Therefore, the nomenclatures are corrected in the current monitoring report and now made in lined throughout the monitoring report and it is also consistent with tool 07 version 7.0

Above mentioned change does not impact the project's Additionality, Baseline, design, crediting period and applicability of methodology in any way.

B.2.3. Changes to start date of crediting period

There is no change in the start date of the project activity

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

No permanent changes

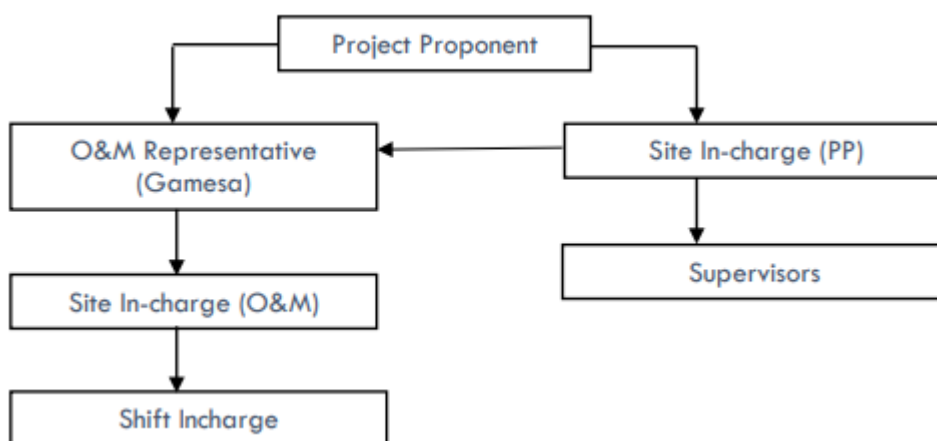
B.2.5. Changes to project design of approved project

Not applicable

SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

The monitoring plan is developed in accordance with the modalities and procedures for CDM project activities and is proposed for grid-connected wind power project/ unit being implemented in Tamil Nadu, India. The monitoring plan, which will be implemented by the project participant describes about the monitoring organisation, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving.

The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data rests with the project participant.



Responsibilities of Site Incharge (PP): Overall functioning and maintenance of the project activity, the Site incharge shall coordinate with the O&M operator as well as the site supervisors.

Responsibilities of O&M Representative: Co-ordination between Site incharge of the O&M operator as well as the project participant and further report to PP head office.

Responsibilities of Site In-charge (O&M Operator): Responsibility for maintaining the data records, ensures completeness of data, and reliability of data (calibration of equipment) as well as data recording for all the parameters.

Responsibilities of Shift In-charge: Responsibility for day-to-day data collection and maintains day to day monitored data.

The project proponent has entered into agreement with the WTG Suppliers (Siemens Gamesa Renewable Private Limited (Gamesa) for the operation and maintenance of WTGs. The O&M team from the WTG supplier looks after the day-to-day Operation and maintenance of the WTGs

The project activity has entered a power purchase agreement for a period of 25 years with the Solar Energy Corporation of India Limited (SECI). SECI is responsible for maintaining the QA/QC procedures (accuracy, and calibration frequency). SECI/Discom officer are fully responsible for the maintenance of the meters.

Data Measurement

Monitoring consists of metering the net electricity supplied to the grid ($EG_{PJ,y}$) on monthly basis. This parameter is based on the monthly Regional Energy Account undertaken by Southern Regional Power Committee, CEA, Ministry of Power, Govt. of India. The PP will then raise monthly electricity sales invoices to SECI with reference to the REA reading. To the meters at the GSS, there are WTGs of Orange and other PPs connected. Hence, the REA report reflects the total generation from all the WTGs from the project alone, managed by the SECI personal and project representatives. The raised invoices/readings by the Project Participant can be used for cross checking.

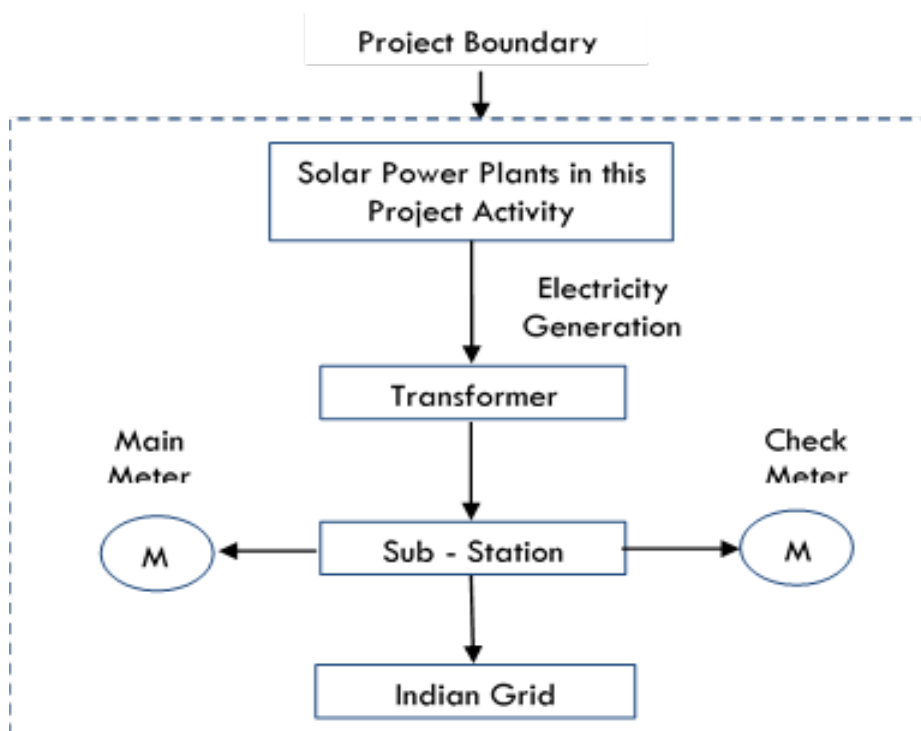
The export and import power is measured continuously using the Main meter, check meter and Standby meters installed at Substation. Export & Import readings of all the three meters is recorded on monthly basis by the Southern Regional Power Committee, CEA, Ministry of Power, Govt. of India. The monthly meter reading and the PP's invoice/bill are crosschecked for accuracy. The difference between the recorded reading and the previous month generation units gives the number of units exported to the grid.

It is to be noted that though the PP or their representatives are available during meter reading, the calculations of net electricity supplied to grid is completely under purview of SECI and PP does not have any control on it.

The monitored data are reported by the PP to the execution team on a monthly basis for the calculation and estimation of emission reductions. The amount of energy generated are cross checked against invoices raised for the Emission Reduction calculation.

Power Evacuation Procedure:

Power will be evacuated through 230KV transmission line is connected to PGCIL Tirunelveli GIS PS (230/400 kV) at District Tuticorin. Connectivity and LTA Permission have been received from PGCIL in the name of the Company for 200 MW capacity. There is no change from the previous monitoring scenario.



Mismatch in Monitoring Period and the Billing Period

In case the dates of a particular monitoring period do not match with the dates of the billing period, the net electricity exported to the grid would be calculated from:

$$D = (A/B) * C$$

Where,

D = Net electricity exported to the grid

A = Difference of number of days which are not matching of billing period and monitoring period.

B = Number of days of the billing period/ month which was not matched with the monitoring period.

C = Net Electricity supplied to the grid for that given billing period/ month.

The calculated value after apportioning would be used for calculation of emission reductions during that period.

Emergency preparedness

The project activity does not result in any unidentified activity that can result in substantial emissions from the project activity. No need for emergency preparedness in data monitoring is visualized.

In the unlikely event of failure of all Main, check as well as Standby meter installed at Substation, where all the faulty meters are required to be repaired or replaced simultaneously, the export & import readings from Main, Check & Standby Meters installed at the inter-connection point at the project site is used for monitoring of net electricity exported to the grid.

Personnel training

In order to ensure a proper functioning of the project activity and a proper monitoring of emission reductions, the staff has been trained. The plant helpers are trained in equipment operation, data recording, reports writing, operation and maintenance and emergency procedures in compliance with the monitoring plan.

SECTION D. DATA AND PARAMETERS

D.1. Data and parameters fixed ex ante or at renewal of crediting period

Relevant SDG Indicator 13: Take urgent action to combat climate change and its impacts

Data/parameter	EF _{grid,OM,y}
Unit	tCO ₂ e/MWh
Description	Operating Margin CO ₂ emission factor in year y

Source of data	Calculated from CEA database, Version 12 ⁶
Value(s) applied	0.9843
Choice of data or Measurement methods and procedures	Calculated as per "Tool 07: Tool to calculate the emission factor for an electricity system, version 7.0" as 3-year generation weighted average using data for the years 2013-2014, 2014-2015 & 2015-16. The data are obtained from "CO ₂ Baseline Database for Indian Power Sector" version 12.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	The data is used to calculate baseline emission reductions.
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

Data/parameter	EF _{grid,BM,y}
Unit	tCO ₂ e/MWh
Description	Build Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 12 ⁷
Value(s) applied	0.9083
Choice of data or Measurement methods and procedures	Calculated as per "Tool 07: Tool to calculate the emission factor for an electricity system, version 7.0". The data are obtained from "CO ₂ Baseline Database for Indian Power Sector" version 12.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	The data is used to calculate baseline emission reductions
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

Data/parameter	EF _{grid,CM,y}
Unit	tCO ₂ e/MWh
Description	Combined Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 12 ⁸

⁶https://cea.nic.in/wp-content/uploads/baseline/2020/07/user_guide_ver12.pdf

⁷https://cea.nic.in/wp-content/uploads/baseline/2020/07/user_guide_ver12.pdf

⁸https://cea.nic.in/wp-content/uploads/baseline/2020/07/user_guide_ver12.pdf

Value(s) applied	0.9652
Choice of data or Measurement methods and procedures	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid, BM,y} * W_{BM}$ Where: $EF_{grid,BM,y}$ = Build margin CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,OM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM} = Weighting of build margin emissions factor (%) = 25%
Purpose of data	The data is used to calculate baseline emission reductions.
Additional comment	-

D.2 Data and parameters monitored

Relevant SDG Indicator SDG 7: Affordable and Clean Energy

Data / Parameter	EG _{PJ,y}
Unit	MWh
Description	Quantity of net electricity supplied by the project plant/unit to the grid in year y (MWh)
Source of data	Generation statement provided by SECI every month.
Value(s) applied	530,885.97 MWh
Measurement methods and procedures	Monitoring equipment: Electrical Energy Meters which are electronic tri-vector meters of accuracy class 0.2s (Main, check and standby meters) (Please refer to the Annex-1 for meter serial number) Data type: Measured & Calculated Archiving: Paper & Electronic Recording Frequency: Daily Calibration frequency: Once in 5 years as per CEA

	Guidelines.⁹ Electricity exported /imported to the grid is in kWh. However, for the calculation purpose electricity exported is converted in MWh. The Net electricity supplied to the grid by the project activity is exported is converted in MWh. The net electricity supplied to the grid by the project activity is calculated as a difference of electricity Exported to the grid and electricity imported from the Grid obtained from monthly meter reports from SECI provided as per below equation: $EG_{PJy} = EG_{Export} - EG_{Import}$ Cross Checking: Quantity of net electricity supplied to the grid will be cross checked from the Invoices/ Monthly Bill raised by the Project Participant to SECI
Monitoring frequency:	Continuous measurement and at least monthly recording
QA/QC procedures	The meters will be calibrated once in every 5 years by an independent testing laboratory ¹⁰ and faulty meters will be duly replaced immediately. The meters are of accuracy class 0.2s.
Purpose of data	The Data/Parameter is required to calculate the baseline emission
Additional comment	Data will be archived electronically for a period of 2 years beyond the end of crediting period.

Relevant SDG Indicator SDG 8: Decent Work and Economic Growth

Data / Parameter	Quality of employment
Unit	Number (Trainings)

⁹ https://cea.nic.in/wp-content/uploads/2020/04/review_regulation.pdf

¹⁰ https://cea.nic.in/wp-content/uploads/2020/04/review_regulation.pdf

Description	Number of Trainings provided to employees & O&M staff
Source of data	Training Records (HSE & HR) and employee feedback forms
Value(s) applied	There are total 21 of the trainings & workshops that are given to the respective O&M staffs by Gamesa or PP during the current monitoring period. • HSE Training Record • Soft Skill Training The training programmes help in making the workforce efficient and skilled at their job. This not only helps the company but adds to growth of individual employees. Thus, the project has a positive impact on the parameter.
Measurement methods and procedures	• Training Attendance sheets and records. • Employee Records
Monitoring frequency:	Annually
QA/QC procedures	The number of persons employed would be mentioned in the plant register, which can be crossed checked with daily attendance register.
Purpose of data	Continuation of regular trainings/workshops for employees & O&M staff
Additional comment	-

Relevant SDG Indicator **SDG 8: Decent Work and Economic Growth**

Data / Parameter	• Quantitative employment • Income generation
Unit	• Number (employees) • INR (salary)
Description	• Number of people employed directly due to the project activity with Number of male/female, permanent/temporary, age and person with disabilities. • Salary given to the employees of the project.
Source of data	• Salary Slip of the project employees. • Plant Employee Records
Value(s) applied	The total number of staff (including O&M staff, management, outsourced jobs as well as security guards) employed by Gamesa and Orange during O&M phase of the project activity employments 77. Permanent employees- 74

	Temporary employees- 3 Males: 77 Females: 00 The above number of jobs are permanent and full-time in nature i.e., to 74 employees and additional short-term services create temporary jobs i.e., to 3 employees. Females are not employed at the site until now. The income generation during the current monitoring period is 104,849,000 INR.
Measurement methods and procedures	The total number of persons working in the plant would be calculated based on the daily log available at site. Salary paid to the employees is available in the HR records
Monitoring frequency:	Annually
QA/QC procedures	The number of persons employed would be mentioned in the plant register, which can be crossed checked with daily attendance register and salary slips
Purpose of data	-
Additional comment	-

Training details:

S.No	Date	Topics	Total No. of Trainings in the month	Total no. of attendees
1	23/05/2022	Heat stress and fire fighting	1	4
2	23/05/2022	EHS Engagement Program (EHS Manual, H&S Plan, PTW, LOTOTO, Element Ownership)	1	4
3	18/06/2022	LOTOTO	1	19
4	18/06/2022	WTG Gear Box system	1	4
5	24/06/2022	Training on confined space	1	3
6	16/06/2022	GIMS	1	2
7	23/07/2022	PTR OLTC Operation & function	1	1
8	30/07/2022	Electrical Safety, Energy Isolation/LOTO/ awareness on incident management	1	4

9	30/07/2022	Procedure for power transformer maintenance	1	2
10	06/08/2022	Importance of 33kV line maintenance	1	2
11	19/08/2022	External training on defensive Driving	1	8
12	19/08/2022	External training on defensive Driving	1	8
13	27/08/2022	Working at Height (Scaffolding safety / Ladder safety)	1	3
14	27/08/2022	Awareness on Confined Space	1	3
15	17/09/2022	Awareness knowledge on EHS plan and emergency response plan	1	2
16	17/09/2022	Introduction to SAPPM Module	1	2
17	17/09/2022	Portable Electrical Hand Tools / Machine Guarding	1	4
18	17/09/2022	Personnel Protective Equipment's	1	4
19	15/10/2022	Training on GIMS policy	1	4
20	15/10/2022	Contractor Safety Management (CSM)	1	3
21	18/10/2022	Safety alert (awareness training on ladder climb)	1	5
Total			21	91

Relevant SDG Indicator SDG 13: Climate Action

Data / Parameter	Air Quality
Unit	tCO ₂
Description	Reduction in CO ₂ emission reduction due to implementation of project activity
Source of data	Calculated as per "Tool 07: Tool to calculate the emission factor for an electricity system, version 7.0". The data are obtained from "CO ₂ Baseline Database for Indian Power Sector" version 12.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Value(s) applied	512,411 tCO ₂ e
Measurement methods and procedures	Calculated from CEA database and Energy Generation

Measuring/reading / recording frequency:	Calibration and Testing of Meters are done by the accredited agency as per norms. Once in 5 years as per CEA guidelines ¹¹
QA/QC procedures	A check meter is also installed near to the export meter to cross check the electricity exported to the grid. The check meter reading would also be used in case of failure of export meter
Purpose of data	Calculation of baseline emissions
Additional comment	-

D.3. Comparison of monitored parameters with last monitoring period

Data/Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
NA	NA	NA
NA	NA	NA

As per monitoring template guidelines, this section is not applicable for non- Community Service Activities, hence not applicable.

D.4. Implementation of sampling plan

No sampling process is involved, hence not applicable.

SECTION E. CALCULATION OF SDG IMPACTS

E.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact

SDG 7: Affordable and Clean Energy

The monitoring parameter for the SDG 7 is Quantity of net electricity supplied to the grid during the year y. Since baseline and pre-project scenario are same, in the baseline condition no renewable electricity will be supplied to grid from the project location. Hence, the baseline value is zero.

Vintage	Baseline Value
	Quantity of net electricity supplied to the grid (MWh)
2022	0
Total	0

¹¹ http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

SDG 8: Decent Work and Economic Growth

The monitoring parameter for the SDG 8 are Number of trainings provided to employees & O&M staff, income generation and Number of O&M staffs involved in the project. Since baseline and pre-project scenario are same, in the baseline condition these values are zero.

Vintage	Baseline Value		
	Number of trainings (Nos)	Income generation (Lakh INR)	Number of employees (Nos)
2022	0	0	0
Total	0	0	0

SDG 13: Climate Actions

Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid- connected power plants and the addition of new grid-connected power plants. The baseline emissions are to be calculated as follows:

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

Where,

BE_y - Baseline emissions in year y, (tCO₂e/yr)

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

EF_{grid,CM,y} - Combined margin CO₂ emission factor for grid connected power generation in year y

Calculation of EG_{PJ,y}

The calculation of EG_{PJ,y} is different for

- Greenfield plants,
- Retrofits and replacements, and
- Capacity additions

The project activity is the installation of wind projects, and it is a green field project. As per ACM0002 version 20.0 the project is greenfield so the formula in option (a)

i.e., greenfield plants is used to calculate the value of $EG_{PJ,y}$. In accordance with para 41 of the applied methodology:

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

Where:

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

$EG_{facility,y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr).

The monitoring parameter for the SDG 13 is GHG emission reduction. Baseline Emissions for the amount of electricity supplied by project activity, BE_y is calculated as

$$BE_y = EG_{facility,y} * EF_{grid,CM,y}$$

$$BE_y = 530,885.97 * 0.9652$$

$$BE_y = 512,411 \text{ tCO}_2\text{e (Rounded down)}$$

As per the approved consolidated Methodology ACM0002 Version 20,

Emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

Where: ER_y = Emission reductions in year y (t CO₂e/yr)

BE_y = Baseline emissions in year y (t CO₂e/yr)

PE_y = Project emissions in year y (t CO₂e/yr)

As $PE_y=0$

$$ER_y = 512,411 - 0$$

$$\mathbf{ER_y = 512,411 \text{ tCO}_2\text{e}}$$

E.2. Calculation of project value or estimation of project situation of each SDG Impact

SDG 7: Affordable and Clean Energy

The monitoring parameter for the SDG 7 is Quantity of net electricity supplied to the grid during the year y. In the project situation, the project supplied 530,885.97 MWh electricity during the monitoring period. This can be crosschecked from JMR & Invoices.

During Monitoring period - 01/01/2022 to 31/12/2022

Quantity of net electricity supplied to the grid (MWh) = 530,885.97 MWh

Vintage	Project Value
	Quantity of net electricity supplied to the grid (MWh)
2022	530,885.97
Total	530,885.97

SDG 8: Decent Work and Economic Growth

The monitoring parameter for the SDG 8 are Number of trainings provided to employees & O&M staff, Income generation & Number of employees involved in the project. During the project scenario, the following is achieved:

During Monitoring period - 01/01/2022 to 31/12/2022

Quality of Employment – 21 training

Quantitative employment and income generation - 77 employees & INR 104,849,000

These can be crosschecked from the training records, O&M contract & employment records.

Vintage	Project Value		
	Number of trainings (Nos)	Income generation (Lakh INR)	Number of employees (Nos)
2022	21	104,849,000	77
Total	21	104,849,000	77

SDG 13: Climate Action

The monitoring parameter for the SDG 13 is Quantity of emission reduction during the year y. In the project situation, the project reduced 512,411 tCO₂e during the current monitoring period and this parameter is calculated.

During Monitoring period - 01/01/2022 to 31/12/2022

Quantity of emission reduction – 512,411 tCO₂e

Vintage	Project Value		
	Net generation (MWh)	Grid Emission Factor (tCO ₂ /MWh)	Emission Reduction (tCO ₂)
2022	530,885.97	0.9652	512,411
Total	530,885.97	0.9652	512,411

As per the approved consolidated Methodology ACM0002 (Version 20.0):

"For most renewable energy power generation project activities, $PE_y = 0$. However, some project activities may involve project emissions that can be significant. These emissions shall be accounted as project emissions by using the following equation:

$$PE_y = PE_{FF,y} + PE_{GP,y} + PE_{HP,y}$$

Where:

PE_y - Project emissions in year y (t CO₂e/yr)

$PE_{FF,y}$ - Project emissions from fossil fuel consumption in year y (t CO₂/yr)

$PE_{GP,y}$ - Project emissions from the operation of dry, flash steam or binary geothermal power plants in year y (t CO₂e/yr)

$PE_{HP,y}$ - Project emissions from water reservoirs of hydro power plants in year y (t CO₂e/yr)"

As the project activity is the installation of a new grid-connected Wind power plant/unit and does not involve any project emissions from fossil fuel, operation of dry, flash steam or binary geothermal power plants, and from water reservoirs of hydro power plants. Therefore $PE_{FF,y}$, $PE_{GP,y}$, $PE_{HP,y}$ is equal to zero and thus, $PE_y = 0$.

Vintage	Project Emission (tCO ₂ e)
2022	0
Total	0

E.3. Calculation of leakage

As per applied methodology ACM0002, version 20. No leakage emissions are considered in the project activity. The main emissions potentially giving rise to leakage in the context of electric sector projects are emissions arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, transport). Since the emissions sources are small, it is neglected. Hence, $LE_y = 0$.

Vintage	Leakage Emission (tCO ₂ e)
2022	0
Total	0

E.4. Calculation of net benefits or direct calculation for each SDG Impact

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
7	Affordable and Clean Energy (MWh)	0	530,885.97 MWh	530,885.97 MWh
8	Decent Work	0	21 Trainings	21 Trainings

	and		77 employees	77 employees
	Economic Growth		INR 104,849,000	INR 104,849,000
13	Climate Action (mandatory) (tCO ₂)	512,411 tCO ₂ e	0	512,411 tCO ₂ e

E.5. Comparison of actual SDG Impacts with estimates in approved PDD

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values ¹² achieved during this monitoring period
7	635,976 MWh/year 635,976 MWh for the monitoring period (365 days)	530,885.97 MWh
8	1 Trainings 15 employees	21 Trainings 77 employees INR 104,849,000
13	613,844 tCO ₂ /year 613,844 tCO ₂ for the monitoring period (365 days)	512,411 tCO ₂ e

E.5.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

SDG 7: Affordable and Clean Energy

The annual estimated power generation for the project activity is 635,976 MWh, thus considering number of days covered during current monitoring period to be 365, the estimated power generation is 635,976 MWh.

$$= 635,976 * 365 \text{ (days)} / 365$$

$$= 635,976 \text{ MWh}$$

SDG 8: Decent Work and Economic Growth

The project leads to employment opportunities which was not possible in the baseline scenario. The annual estimation regarding SDG 8 the project activity is 01 training,

¹² Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

giving employment to 15 persons, thus considering number of days covered during current monitoring period to be 365. Whereas, in estimated 01 trainings and 15 employees in the current monitoring period.

SDG 13: Climate Action

The annual estimated emission reduction for the project activity is 613,844 tCO₂e, thus considering number of days covered during current monitoring period to be 365, the estimated emission reduction contributing towards SDG 13 is 613,844 tCO₂e.

$$= \frac{\text{Estimated Generation} * \text{Number of days covered during the current MP}}{\text{Total number of days in a year}}$$

$$= 613,844 * 365 / 365$$

$$= 613,844 \text{ tCO}_2\text{e (Round down)}$$

The below comparison of SDG 7, SDG 8 and SDG 13 for the monitoring period of 14/10/2021 to 31/12/2022 is as per follows:

SDG	Parameter	Annual Average Estimation as per PDD	Estimation for the monitoring period	Actual Achieved during the monitoring period	Difference
7	Renewable electricity generation (MWh)	635,976	635,976	530,885.97	-16.52%
8	Number of Trainings Conducted	1	1	21	95.24%
	Income generation (Lakh INR)	NA	NA	104,849,000	NA
	Number of Employment	15	15	77	413.33%
13	Emission Reduction (tCO ₂ e)	613,844	613,844	512,411	-16.52%

E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

The emission reductions as per the registered PDD for the current monitoring period is estimated to be 613,844 tCO₂e whereas during the current monitoring period the emission reductions claimed are 512,411 tCO₂e, which is approximately 16.52% lower than the estimated emission reductions for the same monitoring period. The reductions

in actual emission reduction are justified, since during the current monitoring period, the plant underwent scheduled maintenance and breakdown. The generation is subject to climate conditions which are beyond the control of the Project Proponent. The current monitoring period is 01/01/2022 till 31/12/2022. The net electricity generated in April 2022 and November 2022 is low due to the changing season which is beyond the control of the project participant. Hence, the actual emission reductions are 16.52% lower as compared to the estimated emission reductions.

SECTION F. SAFEGUARDS REPORTING

The complete assessment for the Safeguarding Principles is provided in Section D of the registered GS4GG PDD. Additionally, no monitoring parameter for safeguarding principles has been designated for the project as per the registered PDD version 05.

SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.

As a part of continuous feedback from stakeholders, the grievances register is being placed at site and is being continuously monitored and addressed through the grievances cell on regular basis and maintained in a register at site office.

A copy of the grievance Register has been provided separately. No input or grievances received from any stakeholder during the monitoring period.

G.2. Report on any stakeholder mitigations that were agreed to be monitored.

There has been no stakeholder mitigation that were agreed to be monitored in this verification period.

G.3. Provide details of any legal contest that has arisen with the project during the monitoring period

No, there has been no legal contest that has arisen with the project during the monitoring period.

Appendix I- Details of meters

The total capacity of the project activity is 200 MW which is 2 MW of 100 WTGs. Project site has one main meter, one check meter along with that one standby meter.

Details	Main meter	Check meter	Standby meter
Make	Secure	Secure	Secure
Meter number	SA0011A	SA0012A	SA0015A
Location	PGCIL,400/230kV control room, Tuticorin	PGCIL,400/230kV control room, Tuticorin	PGCIL,230/33kV Pooling station, Control room, Thoothukudi
Accuracy	0.2S	0.2S	0.2S
Calibration frequency as per PD	Once in 5 years	Once in 5 years	Once in 5 years
Calibration date	10/04/2021	10/04/2021	11/04/2021
Calibration validity	09/04/2026	09/04/2026	10/04/2026

Appendix II- Details of WTGs

Feeder	Location	COD*	Feeder	Location	COD*	Feeder	Location	COD*
Feeder-01	GPV 023	05/03/2019	Feeder-04	GPV487	13/04/2019	Feeder-07	GPV 013	05/03/2019
	GPV 560	13/04/2019		GPV373	13/04/2019		GPV 007	05/03/2019
	GPV 545	13/04/2019		GPV269	13/04/2019		GPV 539	05/03/2019
	GPV 525	13/04/2019		GPV531	13/04/2019		GPV 012	05/03/2019
	GPV 010	13/04/2019		GPV542	13/04/2019		GPV 016	05/03/2019
	GPV 175	13/04/2019		GPV727	13/04/2019		GPV 085	05/03/2019
	GPV 530	13/04/2019		GPV398	13/04/2019		GPV 390	05/03/2019
	GPV 130	13/04/2019		GPV074	13/04/2019		GPV 730	05/03/2019
Feeder-02	GPV 027	05/03/2019	Feeder-05	GPV077	13/04/2019	Feeder-08	GPV 731	05/03/2019
	GPV 526	05/03/2019		GPV068	13/04/2019		GPV 676	05/03/2019
	GPV 698	05/03/2019		GPV032	13/04/2019		GPV 005	05/03/2019
	GPV 720	05/03/2019		GPV691	13/04/2019		GPV 030	05/03/2019
	GPV 290	05/03/2019		GPV565	13/04/2019		GPV 529	05/03/2019
	GPV 018	05/03/2019		GPV641	13/04/2019		GPV 095	13/04/2019
	GPV 006	05/03/2019		GPV256	13/04/2019		GPV 318	05/03/2019
	GPV 724	05/03/2019		GPV078	13/04/2019		GPV 469	13/04/2019
	GPV 699	05/03/2019		GPV070	13/04/2019		GPV 003	13/04/2019
	GPV 528	05/03/2019		GPV061	13/04/2019			
	GPV 026	05/03/2019		GPV058	13/04/2019			
	GPV 523	05/03/2019		GPV349	13/04/2019			
Feeder-03	GPV 726	05/03/2019		GPV100	13/04/2019			
	GPV 725	05/03/2019		GPV367	13/04/2019			
	GPV 642	05/03/2019		GPV541	13/04/2019			
	GPV 547	05/03/2019		GPV125	13/04/2019			

03	GPV 335	05/03/2019		GPV72 9	13/04/2019
	GPV 321	05/03/2019		GPV16 1	13/04/2019
	GPV 310	05/03/2019		GPV72 8	13/04/2019
	GPV 028	05/03/2019		GPV03 3	13/04/2019
	GPV 022	05/03/2019		GPV54 3	13/04/2019
	GPV 002	05/03/2019		GPV23 4	13/04/2019
	GPV 555	05/03/2019		GPV30 7	13/04/2019
	GPV 021	05/03/2019		GPV35 5	13/04/2019
	GPV 151	13/04/2019		GPV23 5	13/04/2019
	GPV 487	13/04/2019		GPV05 0	13/04/2019
Feeder-04	GPV 373	13/04/2019	Feeder-06	GPV69 6	05/03/2019
	GPV 269	13/04/2019		GPV00 4	05/03/2019
	GPV 531	13/04/2019		GPV09 4	05/03/2019
	GPV 542	13/04/2019		GPV01 1	05/03/2019
	GPV 727	13/04/2019		GPV02 0	05/03/2019
	GPV 398	13/04/2019		GPV01 7	05/03/2019
	GPV 074	13/04/2019		GPV00 9	05/03/2019
	GPV 077	13/04/2019		GPV69 0	05/03/2019
	GPV 068	13/04/2019		GPV01 9	05/03/2019
	GPV 032	13/04/2019		GPV22 7	05/03/2019
	GPV 691	13/04/2019		GPV52 7	05/03/2019
	GPV 565	13/04/2019		GPV16 5	13/04/2019
	GPV 641	13/04/2019		GPV4 72	13/04/2019
	GPV 256	13/04/2019		GPV2 28	05/03/2019
	GPV 078	13/04/2019		GPV0 29	13/04/2019
	GPV 070	13/04/2019		GPV2 97	13/04/2019

Appendix III- Coordinates of the project activity

S. No.	WTGs	Easting	Northing
1	GPV-003	77° 59' 52.64"E	8°49'48.53"N
2	GPV-004	77° 55' 28.86" E	8°47'28.29"N
3	GPV-005	77° 57' 53.86"E	8°47'52.95"N
4	GPV-007	77° 55' 41.95"E	8°48'37.92"N
5	GPV-009	77° 57'26.15"E	8°49'16.13"N
6	GPV-010	77° 58'35.36"E	8°51'36.10"N
7	GPV-011	77° 55'37.35"E	8°46'45.70"N
8	GPV-012	77° 55'46.12"E	8°49'50.67"N
9	GPV-013	77° 55'8.16"E	8°49'15.14"N
10	GPV-016	77° 56'51.85"E	8°49'35.66"N
11	GPV-017	77° 57'20.34"E	8°48'58.14"N
12	GPV-019	77° 56'41.27"E	8°48'18.77"N
13	GPV-020	77° 55'28.90"E	8°47'3.03"N
14	GPV-029	77° 55'27.56"E	8°45'39.22"N
15	GPV-085	77° 58'31.60"E	8°48'32.05"N
16	GPV-094	77° 55'9.04"E	8°46'33.73"N
17	GPV-095	77° 57'58.20"E	8°49'5.99"N
18	GPV-165	77° 52'58.34"E	8°46'40.20"N
19	GPV-175	77° 58'38.43"E	8°52'4.94"N
20	GPV-228	77° 53'54.07"E	8°46'4.63"N
21	GPV-030	77° 59'6.81"E	8°47'59.52"N
22	GPV-297	77° 56'9.84"E	8°45'45.68"N
23	GPV-390	77° 59'32.11"E	8°47'23.59"N
24	GPV-469	77° 57'51.91"E	8°46'19.47"N
25	GPV-472	77° 53'58.35"E	8°46'31.75"N
26	GPV-525	77° 57'12.51"E	8°52'7.95"N
27	GPV-527	77° 54'51.48"E	8°45'19.25"N
28	GPV-529	77° 57'17.46"E	8°47'19.32"N
29	GPV-530	77° 59'34.72"E	8°51'57.79"N
30	GPV-539	77° 55'46.90"E	8°48'55.75"N
31	GPV-545	77° 59'16.80"E	8°52'54.88"N
32	GPV-555	77° 59'23.49"E	8°57'39.57"N
33	GPV- 560	77° 58' 49.17" E	8°54'54.42"N
34	GPV- 676	77° 55'57.01" E	8°49'26.56"N
35	GPV- 690	77° 56'19.68" E	8°47'25.52"N
36	GPV- 696	77° 54'27.77" E	8°47'23.14"N
37	GPV- 730	77° 59'30.80" E	8°48'28.33"N
38	GPV- 731	77° 59'28.56" E	8°48'46.72"N
39	GPV- 002	78° 2' 56.28" E	8°54'28.21"N
40	GPV- 006	78° 2' 19.57" E	8°53'25.71"N

41	GPV- 018	78° 2' 18.87" E	8°51'33.34"N
42	GPV- 023	78° 1' 12.19" E	8°51'6.34"N
43	GPV- 026	78° 2' 43.18" E	8°53'9.73"N
44	GPV- 027	78° 2' 54.87" E	8°50'19.87"N
45	GPV- 130	78° 0' 34.54" E	8°51'27.92"N
46	GPV- 151	78° 4' 52.55" E	8°54'23.70"N
47	GPV- 227	78° 1' 41.52" E	8°51'26.51"N
48	GPV- 021	78° 0' 14.33" E	8°58'24.99"N
49	GPV- 022	78° 3' 3.69" E	8°55'39.59"N
50	GPV- 028	78° 3' 16.68" E	8°56'39.79"N
51	GPV- 256	78° 3' 0.34" E	8°59'7.96"N
52	GPV- 269	78° 3' 48.50" E	8°58'38.32"N
53	GPV- 290	78° 2' 59.08" E	8°51'22.11"N
54	GPV- 310	78° 3' 34.77" E	8°56'19.15"N
55	GPV- 318	78° 0' 17.32" E	8°48'56.47"N
56	GPV- 321	78° 2' 40.53" E	8°50'38.44"N
57	GPV- 335	78° 3' 31.73" E	8°54'37.30"N
58	GPV- 373	78° 3' 50.77" E	8°58'15.90"N
59	GPV- 526	78° 2' 30.73" E	8°50'37.43"N
60	GPV- 528	78° 2' 46.27" E	8°53'44.03"N
61	GPV- 531	78° 3' 6.85" E	8°58'43.55"N
62	GPV- 547	78° 3' 26.27" E	8°57'19.84"N
63	GPV- 487	78° 3' 11.25" E	8°58'9.67" N
64	GPV- 523	78° 2' 21.60" E	8°52'41.20"N
65	GPV- 565	78° 2' 52.69" E	8°59'39.96"N
66	GPV- 641	78° 2' 12.49" E	8°59'19.31"N
67	GPV- 642	78° 4' 15.74" E	8°55'43.28"N
68	GPV- 691	78° 2' 13.56" E	8°59'44.43"N
69	GPV- 698	78° 2' 28.26" E	8°50'11.20"N
70	GPV- 699	78° 2' 57.52" E	8°54'5.00"N
71	GPV- 355	78° 6' 57.09" E	8°58'19.68"N
72	GPV-398	78° 4' 28.01" E	9°0'4.53"N
73	GPV- 542	78° 4' 21.08" E	8°59'18.45"N
74	GPV- 074	78° 5' 7.17" E	8°59'51.80"N
75	GPV- 077	78° 5' 6.28" E	8°59'31.82"N
76	GPV- 078	78° 5' 7.60" E	8°58'45.72"N
77	GPV- 070	78° 5' 10.44" E	8°58'25.54"N
78	GPV- 234	78° 5' 42.94" E	8°56'40.59"N
79	GPV- 307	78° 6' 7.82" E	8°56'54.64"N
80	GPV- 050	78° 6' 14.28" E	8°57'32.97"N
81	GPV- 235	78° 6' 21.76" E	8°57'59.14"N
82	GPV- 032	78° 6' 23.73" E	8°59'17.31"N
83	GPV- 033	78° 6' 40.65" E	8°58'55.39"N
84	GPV- 543	78° 6' 34.98" E	8°56'11.07"N
85	GPV- 720	78° 1' 52.37" E	8°50'42.14"N

86	GPV- 724	78° 2' 12.75" E	8°52'59.70"N
87	GPV- 725	78° 4' 12.32" E	8°55'0.94"N
88	GPV- 726	78° 4' 6.75" E	8°56'3.89"N
89	GPV- 727	78°4' 20.29" E	8°59'40.27"N
90	GPV- 058	78° 7' 47.73" E	8°59'1.25"N
91	GPV- 061	78° 7' 46.52" E	8° 59'29.96"N
92	GPV- 100	78° 8' 15.02" E	8°58' 39.08"N
93	GPV- 161	78° 7' 48.95" E	8°56'26.36"N
94	GPV- 367	78° 7' 48.95" E	8°58'26.20"N
95	GPV-068	78° 6' 17.75" E	9°0'1.26"N
96	GPV- 125	78° 9' 19.85" E	8°57'11.12"N
97	GPV- 349	78° 9' 14.75" E	8°58'6.34"N
98	GPV- 541	78° 9' 43.10" E	8°57'33.94" N
99	GPV- 728	78° 8' 0.92" E	8°57'40.43" N
100	GPV- 729	78° 7' 43.08" E	8°55'53.55" N

Revision History

Version	Date	Remarks
1.1	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Section for POA monitoring Forward action request section Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on safeguard reporting Clarity on design changes Leakage section added for VER/CER projects Addition of Comparison of monitored parameters with last monitoring period Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.0	10 July 2017	Initial adoption