



**Monitoring report form for CDM project activity**  
(Version 08.0)

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

**MONITORING REPORT**

<b>Title of the project activity</b>	Jangi 91.8 MW wind farm in Gujarat		
<b>UNFCCC reference number of the project activity</b>	6702		
<b>Version number of the PDD applicable to this monitoring report</b>	3.0		
<b>Version number of this monitoring report</b>	03		
<b>Completion date of this monitoring report</b>	22/09/2021		
<b>Monitoring period number</b>	03		
<b>Duration of this monitoring period</b>	01/05/2016 to 31/05/2018 (Inclusive of both dates)		
<b>Monitoring report number for this monitoring period</b>	NA		
<b>Project participants</b>	GP Wind (Jangi) Private Limited		
<b>Host Party</b>	India		
<b>Applied methodologies and standardized baselines</b>	Methodology: ACM0002 ver. 12.3.0 – Consolidated baseline methodology for grid-connected electricity generation from renewable sources. Standardized Baseline: NA		
<b>Sectoral scopes</b>	Scope 1: Energy industries (renewable - / non-renewable sources)		
<b>Amount of GHG emission reductions or net anthropogenic GHG removals achieved by the project activity in this monitoring period</b>	<b>Amount achieved before 1 January 2013</b>	<b>Amount achieved from 1 January 2013 until 31 December 2020</b>	<b>Amount achieved from 1 January 2021</b>
	0 tCO <sub>2</sub>	441,053 tCO <sub>2</sub>	0 tCO <sub>2</sub>
<b>Amount of GHG emission reductions or net anthropogenic GHG removals estimated ex ante for this monitoring period in the PDD</b>	530,671 tCO <sub>2</sub>		

## SECTION A. Description of project activity

### A.1. General description of project activity

The purpose of Jangi 91.8 MW wind farm in Gujarat (hereafter referred to as “the project”) is to utilise the wind resources for power generation to alleviate electricity shortage in Northern, Eastern, Western, and North-Eastern (hereafter referred to as “NEWNE”) regions (now is a part of Unified Indian Grid). The generated electricity is delivered to NEWNE grid (now Unified Indian Grid), which is dominant of fuel-fired power plants.

The project is a wind farm project with installed capacity 91.8 MW, consisting of 51 sets 1.8 MW V100 class 3 turbines which are manufactured by Vestas Denmark.

The project implementation was started on 02/12/2010. The 1st turbine was put into operation on 31/08/2011 and the project is fully operational from 23/12/2011.

#### Purpose of the project activity:

The purpose of this project is to generate environmentally friendly, clean, GHG-emission-free-electricity, which will reduce the overall GHG emissions resulting from conventional electricity generation activities.

#### Scenario existing prior to the start of the implementation of the project activity:

The project activity forms a part of the NEWNE Grid of India (now part of Unified Indian Grid). The project activity generates power by using the kinetic energy of wind, thus resulting in zero emissions during electricity production. The power produced displaces an equivalent amount of power from the grid, which is generated mainly by fossil fuel fired power plants. Hence, the project activity results in reduction of GHG emissions. Hence, in the absence of this project activity, this power would be otherwise generated by grid connected fossil fuel based power plants.

#### Project Scenario:

Wind powered electricity generation is considered environmentally friendly. It replaces some of the fossil fuel dominated electricity generation mix of the current grid and contributes to GHG emission reduction.

The project activity generates electricity by using the kinetic energy of flowing wind. There are no GHG emissions during electricity production in this way. The electricity produced displaces an equivalent amount of power from the existing grid, which is currently generated mainly by fossil fuel fired power plants. Hence, it reduces GHG emissions.

### A.2. Location of project activity

The project is located in Jangi town, Kutch District, Gujarat, India. The project site is about 20km South East from Samakhiali town. The access to the project site is through village roads of Vandhiya, Modpar, Lakhapar and Jangi, situated along the National Highway No.8A. It is situated between Latitudes 23°15'02.0" and 23°11'22.0" North and between Longitudes 70°30'12.0" and 70°38'26.0" East with the average elevation varying from 8 to 30 meters above mean sea level. The project owns 52 parcels of land (51 turbine locations and 1 SCADA building location). The longitude and latitude of each WTG is provided below:

WTG Location No.	Geographical	
	Latitude	Longitude
VW08	23°12'28.74"N	70°38'25.58"E
VW44	23°11'22.87"N	70°37'17.54"E
VW57	23°13'13.55"N	70°36'22.06"E

VW59	23°14'07.60"N	70°36'07.23"E
VW61	23°12'39.38"N	70°34'55.48"E
VW70	23°14'13.64"N	70°36'39.99"E
JW03	23°12'16.65"N	70°34'27.18"E
JW06	23°12'44.30"N	70°33'49.52"E
JW07	23°12'35.13"N	70°34'05.76"E
JW17	23°12'14.76"N	70°31'22.61"E
JW18	23°12'31.47"N	70°31'21.85"E
JW19	23°12'26.45"N	70°30'12.85"E
JW20	23°12'41.70"N	70°31'00.33"E
JW21	23°12'25.45"N	70°30'49.38"E
JW22	23°12'14.10"N	70°30'52.84"E
JW24	23°14'02.93"N	70°35'02.55"E
JW26	23°12'56.38"N	70°34'39.82"E
JW28	23°12'19.94"N	70°34'48.57"E
JW31	23°13'21.22"N	70°34'29.70"E
JW32	23°13'13.52"N	70°31'51.56"E
JW33	23°13'38.05"N	70°34'46.57"E
JW34	23°13'47.70"N	70°34'31.52"E
JW35	23°13'33.64"N	70°35'04.95"E
JW36	23°14'20.51"N	70°34'34.33"E
JW37	23°13'15.63"N	70°34'49.29"E
JW39	23°15'01.13"N	70°33'37.39"E
JW40	23°14'13.52"N	70°33'38.98"E
JW41	23°14'27.39"N	70°33'58.98"E
JW42	23°14'02.18"N	70°32'31.94"E
JW43	23°14'03.08"N	70°34'01.83"E
JW44	23°13'46.31"N	70°33'45.00"E
JW45	23°13'56.38"N	70°33'22.81"E
JW46	23°14'21.74"N	70°33'16.00"E
JW47	23°14'37.16"N	70°33'05.30"E
JW48	23°14'22.77"N	70°32'47.97"E
JW49	23°14'51.20"N	70°32'56.21"E
JW50	23°14'18.81"N	70°32'13.55"E
JW51	23°13'00.65"N	70°32'50.47"E
JW52	23°13'19.12"N	70°33'33.00"E
JW53	23°13'41.20"N	70°33'03.14"E
JW54	23°13'29.72"N	70°32'43.31"E
JW55	23°13'43.96"N	70°32'26.80"E
JW56	23°14'19.02"N	70°31'52.62"E
JW57	23°14'18.41"N	70°31'30.98"E
JW58	23°14'13.34"N	70°30'54.47"E
JW59	23°14'04.92"N	70°31'11.51"E
JW60	23°13'52.06"N	70°30'35.34"E
JW61	23°13'54.03"N	70°30'13.27"E
JW62	23°13'56.89"N	70°31'51.63"E

JW63	23°14'50.02"N	70°34'19.09"E
JW64	23°14'39.46"N	70°33'42.31"E



Location of Project Activity in Map

**A.3. Parties and project participants**

Parties involved	Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
India (host)	GP Wind (Jangi) Private Limited	No

**A.4. References to applied methodologies and standardized baselines**

ACM0002-Consolidated baseline and monitoring methodology for grid connected electricity generation from renewable sources (Version 12.3.0)<sup>1</sup>

Tool for the demonstration and assessment of additionality (Version 06.1.0)

Tool to calculate the emission factor for an electricity system (Version 02.2.1)

**A.5. Crediting period type and duration**

Crediting Type	- Fixed
Length of Crediting Period	- 10 Years
Duration of Crediting Period	- 01/11/2012 – 31/10/2022

<sup>1</sup> <https://cdm.unfccc.int/methodologies/DB/XP2LKUSA61DKUQC0PIWPGWDN8ED5PG>

**SECTION B. Implementation of project activity****B.1. Description of implemented project activity**

The project is a wind farm project, the installed capacity of the project is 91.8 MW, consisting of 51 sets 1.8 MW turbines.

The project implementation was started on 02/12/2010. The 1<sup>st</sup> turbine was commissioned and put into operation on 31/08/2011 and the project was fully put into operation on 23/12/2011. The project was under normal and continued operation status until now.

Sl. No.	WTG Location No.	WTG ID	Date of Commissioning
1	VW08	VWT/1800/11-12/2233	31/08/2011
2	VW44	VWT/1800/11-12/2234	31/08/2011
3	VW57	VWT/1800/11-12/2235	01/10/2011
4	JW03	VWT/1800/11-12/2236	31/08/2011
5	JW06	VWT/1800/11-12/2237	31/08/2011
6	JW07	VWT/1800/11-12/2238	31/08/2011
7	JW16	VWT/1800/11-12/2239	18/11/2011
8	JW17	VWT/1800/11-12/2240	19/11/2011
9	JW18	VWT/1800/11-12/2241	19/11/2011
10	JW19	VWT/1800/11-12/2242	19/11/2011
11	JW20	VWT/1800/11-12/2243	19/11/2011
12	JW22	VWT/1800/11-12/2244	18/11/2011
13	JW26	VWT/1800/11-12/2245	31/08/2011
14	JW28	VWT/1800/11-12/2246	31/08/2011
15	JW32	VWT/1800/11-12/2247	23/12/2011
16	VW59	VWT/1800/11-12/2248	23/12/2011
17	VW61	VWT/1800/11-12/2249	31/08/2011
18	VW70	VWT/1800/11-12/2250	23/12/2011
19	JW24	VWT/1800/11-12/2251	30/09/2011
20	JW31	VWT/1800/11-12/2252	31/08/2011
21	JW33	VWT/1800/11-12/2253	03/09/2011
22	JW34	VWT/1800/11-12/2254	03/09/2011
23	JW35	VWT/1800/11-12/2255	01/10/2011
24	JW36	VWT/1800/11-12/2256	29/09/2011
25	JW37	VWT/1800/11-12/2257	23/11/2011
26	JW39	VWT/1800/11-12/2258	20/10/2011
27	JW40	VWT/1800/11-12/2259	29/09/2011
28	JW41	VWT/1800/11-12/2260	20/10/2011
29	JW42	VWT/1800/11-12/2261	20/12/2011
30	JW43	VWT/1800/11-12/2262	30/09/2011
31	JW44	VWT/1800/11-12/2263	30/11/2011
32	JW45	VWT/1800/11-12/2264	23/11/2011
33	JW46	VWT/1800/11-12/2265	24/10/2011
34	JW47	VWT/1800/11-12/2266	24/10/2011
35	JW48	VWT/1800/11-12/2267	30/11/2011
36	JW49	VWT/1800/11-12/2268	24/10/2011
37	JW50	VWT/1800/11-12/2269	13/12/2011
38	JW51	VWT/1800/11-12/2270	13/12/2011
39	JW52	VWT/1800/11-12/2271	23/12/2011
40	JW53	VWT/1800/11-12/2272	21/12/2011
41	JW54	VWT/1800/11-12/2273	13/12/2011
42	JW55	VWT/1800/11-12/2274	20/12/2011
43	JW56	VWT/1800/11-12/2275	17/12/2011
44	JW57	VWT/1800/11-12/2276	20/12/2011
45	JW58	VWT/1800/11-12/2277	20/12/2011
46	JW59	VWT/1800/11-12/2278	17/12/2011

47	JW60	VWT/1800/11-12/2279	20/12/2011
48	JW61	VWT/1800/11-12/2280	20/12/2011
49	JW62	VWT/1800/11-12/2281	20/12/2011
50	JW63	VWT/1800/11-12/2282	12/11/2011
51	JW64	VWT/1800/11-12/2283	23/11/2011

The technical specification of WTG is provided below:

Type	V100
Manufacturer	Vestas
Capacity	1.8 MW
<b>Rotor</b>	
Diameter	100 m
Swept Area	7850 m <sup>2</sup>
Rotational Speed Static, Rotor	14.9 rpm
Speed, Dynamic Operation Range	9.3 – 16.6 rpm
Rotational Direction	Clockwise(front view)
Orientation	Upwind
Tilt	6°
Hub Coning	2°
Number of Blades	3
Aerodynamic Brakes	Full feathering
<b>PP Blades</b>	
Type Description	Airfoil shells bonded to supporting beam
Blade Length	49 m
Material	Fibre glass reinforced epoxy and carbon fibres
Blade Connection	Steel roots inserted
Air Foils	RISØ P + FFA – W3
Chord	3.9 m
Blade Root Outer Diameter	1.88 m
PCD of Steel Root Inserts	1.80 m
R49	0.54 m
Twist(Blade root/blade tip)	245°/-0.5°
Approximate Weight	7500 kg
<b>Blade Bearing</b>	
Type	2 row 4-point contact ball bearing
Lubrication	Grease lubrication, automatic lubrication pump
<b>Pitch System</b>	
Type	Hydraulic
Cylinder	Ø125/80 – 760
Number	1 pcs./blade
Range	-5° to 90°
<b>Hydraulic System</b>	
Pump Capacity	50 l/min
Working Pressure	200-230 bar
Oil Quantity	260 l
Motor	20 kW
<b>Gearbox</b>	
Type	1 planetary stage + 2 helical stages
Ratio	1:113 nominal
Cooling	Oil pump with oil cooler
Oil heater	2 kW
Max Gear Oil Temp	80° C
Oil Cleanliness	-/15/12 ISO 4406
<b>Tower Structure</b>	
Type Description	Conical tubular
Hub Heights(HH)	80m/95m

**B.2. Post-registration changes****B.2.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents**

Not Applicable

**B.2.2. Corrections**

Not Applicable

**B.2.3. Changes to the start date of the crediting period**

The start date of crediting period was changed from 01/06/2013 to 01/11/2012. The same is approved by UNFCCC. Please refer UN web page for same.  
<https://cdm.unfccc.int/Projects/DB/RWTUV1342443620.03/view>

**B.2.4. Inclusion of monitoring plan**

Not Applicable

**B.2.5. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents**

Not Applicable

**B.2.6. Changes to project design**

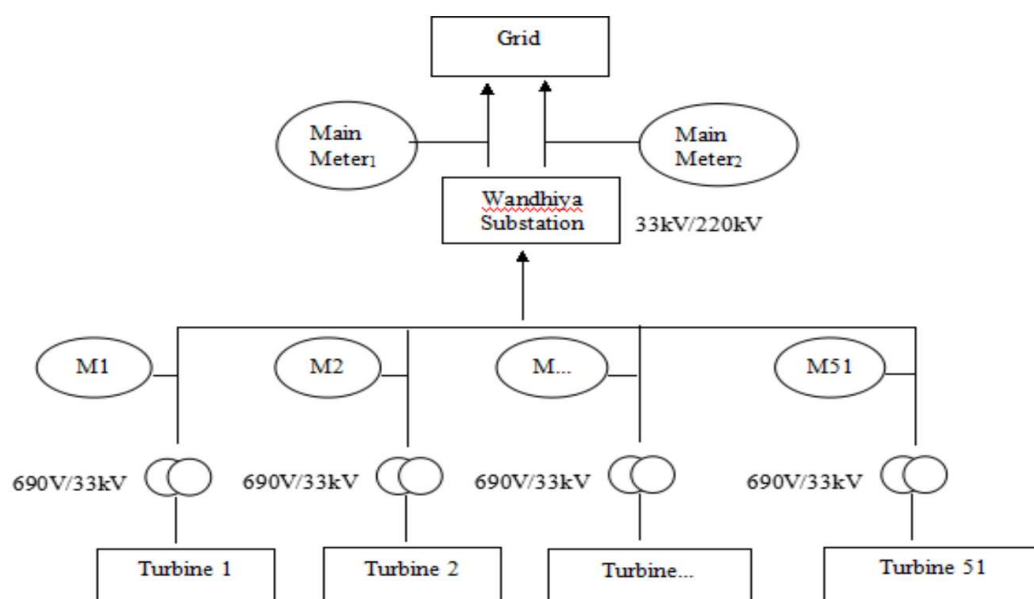
Not Applicable

**B.2.7. Changes specific to afforestation or reforestation project activity**

Not Applicable

**SECTION C. Description of monitoring system**

The generated electricity from the project is transmitted to the substation and then delivered to the grid through line 1 and line 2 respectively. The below diagram depicts the same:



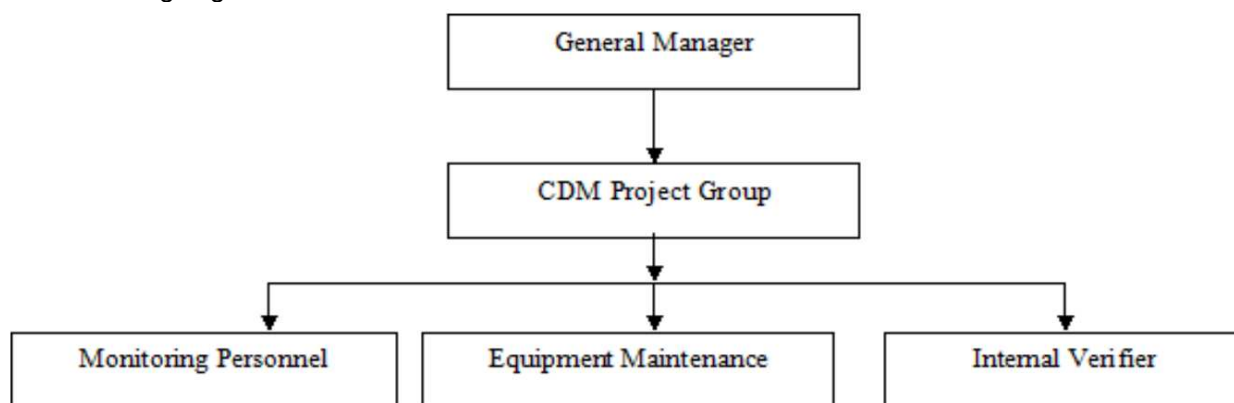
**Data collection procedures:**

The net electricity supplied to power grid data are calculated by GETCO (Gujarat Energy Transmission Corporation Limited) on monthly basis from readings taken from substation main meters as per PPA and also from the 51 WTGs meter and accordingly share certificate is prepared. The Monitoring Personnel from project entity checks and confirms the net electricity supply data from the project activity mentioned in the Share Certificate. The Internal Verifier from finance department of project entity issues the electricity sales receipts ('Invoices') after approval of general manager on basis of net electricity exported value mentioned in Share Certificate provided by GETCO.

All the electronic (scanned documents of meter calibration records, scanned documents of sales receipts and electricity transaction notes) and paper monitoring documents are archived during the crediting period and two years after and also two years after last issuance of CERs.

**Organizational structure:**

The monitoring organizational structure is as follow:





**Roles and responsibilities of personnel:**

General Manager: General Manager is responsible for the overall management of the monitoring plan and for the internal verification of the monitored data.

CDM Project Group: It is consisted of Monitoring Personnel, Equipment Maintenance and Internal Verifier.

Monitoring Personnel: To conduct the monitoring task strictly based on the monitoring manual and registered PDD. The staffs are responsible for recording required monitored parameters, for reporting the monitoring results and for reporting the abnormal situation of the project. Each shift is responsible for the works.

Equipment Maintenance: To conduct the regular check and maintenance of equipment's.

Internal Verifier: Internal Verifier is appointed from financial department. The verifier is responsible for calculating the emission reductions regularly and for preparing the sales receipts of electricity transaction.

**Training:**

The project staffs have been trained respectively regarding operational regulations, quality control, data monitoring & archive and CDM knowledge.

**Emergency procedures:**

The backup meters will be used for monitoring when main meters are in malfunction status. The emergency report will be prepared by Monitoring Personnel and Equipment Maintenance together for reference.

During the given monitoring period, the meters were in well functions and no emergency situation happened.

**SECTION D. Data and parameters****D.1. Data and parameters fixed ex ante**

Data/Parameter	$EF_{grid\ CM,y}$
Unit	tCO <sub>2</sub> /MWh
Description	Combined margin CO <sub>2</sub> emission factor for grid connected power generation
Source of data	"CO <sub>2</sub> Baseline Database for the Indian Power Sector" version 6 <sup>2</sup> published by the Central Electricity Authority, Ministry of Power, Government of India.
Value(s) applied	0.9491
Choice of data or measurement methods and procedures	Data used is from Indian authorities(CEA)
Purpose of data/parameter	Used for emission reductions calculation
Additional comments	N/A.

**D.2. Data and parameters monitored**

Data/Parameter	$EG_{facility,y}$
Unit	MWh

<sup>2</sup> [https://cea.nic.in/wp-content/uploads/baseline/2020/07/user\\_guide\\_ver6.pdf](https://cea.nic.in/wp-content/uploads/baseline/2020/07/user_guide_ver6.pdf)

Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y.
Measured/calculated/default	Calculated
Source of data	Electricity meters
Value(s) of monitored parameter	464,707.067
Monitoring equipment	<p>Bidirectional electronic meters are used in this project. Trivector meters are used as WTG Main and Substation Check Meter. Substation Main and WTG Check meters are ABT type meter. There are 51 Turbine Main Meters as well as 51 Turbine check meters are installed.</p> <p>Every month of the billing period the export and import value is noted by representative of GETCO and PP. The export and import reading both for the substation meter and WTG meters is then used by GETCO official to calculate the Net electricity exported to the grid by individual project owner and thereafter the net value is shared in the form of Share certificate to individual project owner. PP has no role to play in the calculation of Net electricity supplied to the grid. The calculation is in the purview of GETCO and the same practice is followed in the state of Gujarat India. Based on the Net electricity value in the share certificate corresponding invoice is raised by the PP to GETCO. The onsite monitoring practice is as per the registered PDD and the same is followed onsite. Meters have accuracy class 0.5 or higher. Meter and calibration details have been provided in Annexure 1.</p>
Measuring/reading/recording frequency	Continuous measurement, monthly recording
Calculation method (if applicable)	None
QA/QC procedures	Meter records are cross-checked by invoices. All meters have back-up meters installed. Calibration procedures are in line with the wheeling agreement between the project owner and the grid company. Calibration is expected every year, minimum is in every 3 years
Purpose of data/parameter	Used for calculation of baseline emission reductions
Additional comments	N/A.

### D.3. Implementation of sampling plan

Not Applicable

## SECTION E. Calculation of emission reductions or net anthropogenic removals

### E.1. Calculation of baseline emissions or baseline net removals

Baseline Emissions are calculated as:-

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

Where:

$BE_y$  = Baseline emission in year y (tCO<sub>2</sub>/yr)

$EG_{\text{facility},y}$  = 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).

$EF_{\text{grid},CM,y}$  = Combined margin CO<sub>2</sub> emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO<sub>2</sub>/MWh).

Baseline emission factor (Combined Margin) ( $EF_{\text{grid},CM,y}$ ) = 0.9491 tCO<sub>2</sub>e/MWh

$$\begin{aligned} \text{Baseline Emission} &= EG_{\text{facility},y} * EF_{\text{grid},CM,y} = 464,707.067 \text{ MWh} \times 0.9491 \text{ tCO}_2\text{e/MWh} \\ &= 441,053 \text{ tCO}_2 \text{ (Rounded Down Value)} \end{aligned}$$

**E.2. Calculation of project emissions or actual net removals**

According to ACM0002, Version 12.3.0 the project emissions are zero.  
Thus,  $PE_y=0$

**E.3. Calculation of leakage emissions**

According to ACM0002, Version 12.3.0 there are no leakage emissions. So  $LE_y = 0$ .

**E.4. Calculation of emission reductions or net anthropogenic removals**

	Baseline GHG emissions or baseline net GHG removals (t CO <sub>2</sub> e)	Project GHG emissions or actual net GHG removals (t CO <sub>2</sub> e)	Leakage GHG emissions (t CO <sub>2</sub> e)	GHG emission reductions or net anthropogenic GHG removals (t CO <sub>2</sub> e)			
				Before 01/01/2013	From 01/01/2013 until 31/12/2020	From 01/01/2021	Total amount
<b>Total</b>	441,053	0	0	0	441,053	0	441,053

**E.5. Comparison of emission reductions or net anthropogenic removals achieved with estimates in the registered PDD**

Amount achieved during this monitoring period (t CO <sub>2</sub> e)	Amount estimated ex ante for this monitoring period in the PDD (t CO <sub>2</sub> e)
441,053	530,671

**E.5.1. Explanation of calculation of “amount estimated ex ante for this monitoring period in the PDD”**

Considering the annual average emission reductions as per the registered PDD which is 254,527 tCO<sub>2</sub>e per year, the number of days covered during the current monitoring period comes out to be 761 days, based upon which the estimated emission reductions attributed to this monitoring period comes out to be 530,671 tCO<sub>2</sub>e. The detailed calculation can be referred from the emission reduction sheet.

**E.6. Remarks on increase in achieved emission reductions**

It is to be noted here that as per the estimated emission reduction to be achieved from the project activity for the current monitoring 530,671 tCO<sub>2</sub>e, whereas actual emission reductions achieved are 441,053 tCO<sub>2</sub>e, which is approximately 16.89% lower than the estimated emission reductions. The generation of electricity depends upon many other climatic conditions, and not within the control of the project participant. The lower generation during the current verification period is hence due to certain natural conditions and low PLF.

**E.7. Remarks on scale of small-scale project activity**

Not Applicable as project activity is not a small-Scale project activity.

**Annexure I: Meter Calibration Details**

## Substation Meter Details

Meter No.	Make	Accuracy Class	Meter Type	Calibration Date	Validity of Calibration
GJ-2311-A	L&T	0.2	Main Meter	14/07/2015, 15/10/2018	13/07/2018, 14/10/2021
GJ-2363-A	L&T	0.2	Main Meter	13/07/2015, 15/10/2018	12/07/2018, 14/10/2021
GJB01664	Secure	0.2	Check Meter	02/02/2019	01/02/2022
GJB01665	Secure	0.2	Check Meter	02/02/2019	01/02/2022

## WTG Main Meter Details

WTG ID	Meter No.	Accuracy	Make	Calibration Date	Validity of Calibration	Calibration Date	Validity of Calibration	Delay in Calibration <sup>3</sup>	Remarks
JW03	GJU61840	0.5	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to 08/12/2017	
JW06	GJU61843	0.5	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to 08/12/2017	
JW07	GJU61842	0.5	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to 08/12/2017	
JW17	GJU63766	0.5	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW18	GJU64195	0.5	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW19	GJU63770	0.5	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW20	GJU63769	0.5	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW21	GJU63767	0.5	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW22	GJU63768	0.5	Secure	04/12/2014	03/12/2017	18/12/2017	17/12/2020	03/12/2017 to 18/12/2017	
JW24	GJU62539	0.5	Secure	02/12/2014	01/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW26	GJU61849	0.5	Secure	06/12/2014	05/12/2017	20/12/2017	19/12/2020	05/12/2017 to 20/12/2017	
JW28	GJU61839	0.5	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to 08/12/2017	
JW31	GJU61850	0.5	Secure	06/12/2014	05/12/2017	17/12/2017	16/12/2020	05/12/2017 to	

<sup>3</sup> There is no delay in calibration of Substation Main Meter. However there is delay in calibration of WTG Main Meter. So to maintain conservativeness 1% error factor has been applied in November 2017 and December 2017.

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								17/12/2017	
JW32	GJU64199	0.5	Secure	06/12/2014	05/12/2017	18/12/2017	17/12/2020	05/12/2017 to 18/12/2017	
JW33	GJU62545	0.5	Secure	02/12/2014	01/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW34	GJU62537	0.5	Secure	02/12/2014	01/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW35	GJU61828	0.5	Secure	02/12/2014	01/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW36	GJU62536	0.5	Secure	08/12/2014	07/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW37	GJU64192	0.5	Secure	08/12/2014	07/12/2017	20/12/2017	19/12/2020	07/12/2017 to 20/12/2017	
	GJU62533	0.5	Secure	03/12/2014	02/12/2017			02/12/2017 to 09/12/2017	Meter No. GJU6253 3 was replaced by Meter No. GJU6419 4 on 09/12/20 17.
		0.5							
JW39	GJU64194		Secure			09/12/2017	08/12/2020		
JW40	GJU62538	0.5	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	
JW41	GJU61846	0.5	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	
JW42	GJU64197	0.5	Secure	24/11/2014	23/11/2017	17/12/2017	16/12/2020	23/11/2017 to 17/12/2017	
JW43	GJU56316	0.5	Secure	02/12/2014	01/12/2017	20/12/2017	19/12/2020	01/12/2017 to 20/12/2017	
	GJU64194	0.5	Secure	08/12/2014	07/12/2017			No Delay	Meter No. GJU6419 4 was replaced by Meter No. GHU625 44 on 24/03/20 16
		0.5							
JW44	GJU62544		Secure			17/12/2017	16/12/2020		
JW45	GJU62532	0.5	Secure	08/12/2014	07/12/2017	17/12/2017	16/12/2020	07/12/2017 to 17/12/2017	
JW46	GJU62534	0.5	Secure	08/12/2014	07/12/2017	09/12/2017	08/12/2020	07/12/2017 to 09/12/2017	
JW47	GJU62521	0.5	Secure	20/11/2014	19/11/2017	09/12/2017	08/12/2020	19/11/2017 to 09/12/2017	

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JW48	GJU64188	0.5	Secure	24/11/2014	23/11/2017	17/12/2017	16/12/2020	23/11/2017 to 17/12/2017	
JW49	GJU62531	0.5	Secure	24/11/2014	23/11/2017	09/12/2017	08/12/2020	23/11/2017 to 09/12/2017	
JW50	GJU64204	0.5	Secure	24/11/2014	23/11/2017	17/12/2017	16/12/2020	23/11/2017 to 17/12/2017	
JW51	GJU64201	0.5	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW52	GJU64168	0.5	Secure	08/12/2014	07/12/2017	20/12/2017	19/12/2020	07/12/2017 to 20/12/2017	
JW53	GJU62541	0.5	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW54	GJU64203	0.5	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW55	GJU65682	0.5	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW56	GJU64200	0.5	Secure	28/11/2014	27/11/2017			No Delay	Meter No. GJU64200 was replaced by Meter No. GJU73307 on 24/05/2016
		0.5							
JW57	GJU64205	0.5	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW58	GJU64170	0.5	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW59	GJU64171	0.5	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW60	GJU64207	0.5	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW61	GJU64173	0.5	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW62	GJU64198	0.5	Secure	05/12/2014	04/12/2017			No Delay	Meter No. GJU64198 was replaced by Meter No. GJU64151 on 26/05/2016
		0.5							
JW63	GJU64151					17/12/2017	16/12/2020		
JW63	GJU62535	0.5	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017	

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								to 09/12/2017	
JW64	GJU64190	0.5	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	
VW08	GJU61851	0.5	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	
VW44	GJU61833	0.5	Secure	06/12/2014	05/12/2017	21/12/2017	20/12/2020	05/12/2017 to 21/12/2017	
VW57	GJU61841	0.5	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	
VW59	GJU64169	0.5	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	
VW61	GJU61853	0.5	Secure	06/12/2014	05/12/2017	08/12/2017	07/12/2020	05/12/2017 to 08/12/2017	
VW70	GJU64167	0.5	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	

**WTG Check Meter Details**

<b>WTG ID</b>	<b>Meter No.</b>	<b>Accuracy Class</b>	<b>Make</b>	<b>Calibration Date</b>	<b>Validity of Calibration</b>	<b>Calibration Date</b>	<b>Validity of Calibration</b>	<b>Delay in Calibration</b>	<b>Remarks</b>
JW03	GJB56485	0.2	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to 08/12/2017	
JW06	GJB56514	0.2	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to 08/12/2017	
JW07	GJB56504	0.2	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to 08/12/2017	
JW17	GJB56521	0.2	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW18	GJU64177	0.2	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW19	GJB56478	0.2	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW20	GJB56491	0.2	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW21	GJB56522	0.2	Secure	29/11/2014	28/11/2017	18/12/2017	17/12/2020	28/11/2017 to 18/12/2017	
JW22	GJB56483	0.2	Secure	04/12/2014	03/12/2017	18/12/2017	17/12/2020	03/12/2017 to 18/12/2017	
JW24	GJB56486	0.2	Secure	02/12/2014	01/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW26	GJB56506	0.2	Secure	06/12/2014	05/12/2017	20/12/2017	19/12/2020	05/12/2017 to 20/12/2017	
JW28	GJB56484	0.2	Secure	04/12/2014	03/12/2017	08/12/2017	07/12/2020	03/12/2017 to	

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								08/12/2017	
JW31	GJB56507	0.2	Secure	06/12/2014	05/12/2017	17/12/2017	16/12/2020	05/12/2017 to 17/12/2017	
JW32	GJU64182	0.2	Secure	06/12/2014	05/12/2017	18/12/2017	17/12/2020	05/12/2017 to 18/12/2017	
JW33	GJB56510	0.2	Secure	02/12/2014	01/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW34	GJB56509	0.2	Secure	02/12/2014	01/12/2017			No Delay	Meter No. GJB56509 was replaced by Meter No. GJB56499 on 24/03/2016
	GJB56499	0.2	Secure			07/12/2017	06/12/2020		
JW35	GJB56501	0.2	Secure	02/12/2014	01/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW36	GJB56511	0.2	Secure	08/12/2014	07/12/2017	07/12/2017	06/12/2020	01/12/2017 to 07/12/2017	
JW37	GJB56476	0.2	Secure	08/12/2014	07/12/2017	20/12/2017	19/12/2020	07/12/2017 to 20/12/2017	
JW39	GJB56488	0.2	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	
JW40	GJB56512	0.2	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	
JW41	GJB56489	0.2	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	
JW42	GJU64139	0.2	Secure	24/11/2014	23/11/2017			No Delay	Meter No. GJU64139 was replaced by Meter No. GJU73308 on 06/03/2017
	GJU73308	0.2	Secure			17/12/2017	16/12/2020		
JW43	GJB56503	0.2	Secure	02/12/2014	01/12/2017	20/12/2017	19/12/2020	01/12/2017 to 20/12/2017	
JW44	GJU64143	0.2	Secure	08/12/2014	07/12/2017	17/12/2017	16/12/2020	07/12/2017 to 17/12/2017	
JW45	RJB78165	0.2	Secure	08/12/2014	07/12/2017	17/12/2017	16/12/2020	07/12/2017 to 17/12/2017	
JW46	GJB56490	0.2	Secure	08/12/2014	07/12/2017	09/12/2017	08/12/2020	07/12/2017 to 09/12/2017	



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JW47	GJB56502	0.2	Secure	20/11/2014	19/11/2017	09/12/2017	08/12/2020	19/11/2017 to 09/12/2017	
JW48	GJU64144	0.2	Secure	24/11/2014	23/11/2017	17/12/2017	16/12/2020	23/11/2017 to 17/12/2017	
JW49	GJB56482	0.2	Secure	24/11/2014	23/11/2017	09/12/2017	08/12/2020	23/11/2017 to 09/12/2017	
JW50	GJU64140	0.2	Secure	24/11/2014	23/11/2017	17/12/2017	16/12/2020	23/11/2017 to 17/12/2017	
JW51	GJU64181	0.2	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW52	GJU64186	0.2	Secure	08/12/2014	07/12/2017	20/12/2017	19/12/2020	07/12/2017 to 20/12/2017	
JW53	GJU64178	0.2	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW54	GJU64176	0.2	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW55	GJB56517	0.2	Secure	28/11/2014	27/11/2017	20/12/2017	19/12/2020	27/11/2017 to 20/12/2017	
JW56	GJU64175	0.2	Secure	28/11/2014	27/11/2017	17/12/2017	16/12/2020	27/11/2017 to 17/12/2017	
JW57	GJU64141	0.2	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW58	GJU64179	0.2	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW59	GJU64184	0.2	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW60	GJU64183	0.2	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW61	GJU64180	0.2	Secure	27/11/2014	26/11/2017	11/12/2017	10/12/2020	26/11/2017 to 11/12/2017	
JW62		0.2						No Delay	Meter No. GJB5647 7 was replaced by Meter No. GJU7330 9 on 06/05/2016
	GJB56477 GJU73309	0.2	Secure	05/12/2014	04/12/2017	17/12/2017	16/12/2020		
JW63	GJB56480	0.2	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	
JW64	GJB56479	0.2	Secure	03/12/2014	02/12/2017	09/12/2017	08/12/2020	02/12/2017 to 09/12/2017	

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VW08	GJB56508	0.2	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	
VW44	GJB56516	0.2	Secure	06/12/2014	05/12/2017	21/12/2017	20/12/2020	05/12/2017 to 21/12/2017	
VW57	GJB56515	0.2	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	
VW59	GJU64142	0.2	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	
VW61	GJB56505	0.2	Secure	06/12/2014	05/12/2017	08/12/2017	07/12/2020	05/12/2017 to 08/12/2017	
VW70	GJU64185	0.2	Secure	05/12/2014	04/12/2017	21/12/2017	20/12/2020	04/12/2017 to 21/12/2017	

**Annexure II: Breakdown Details**

<b>Turbine</b>	<b>Time from</b>	<b>Time to</b>	<b>Duration</b>	<b>Comment</b>
GP46_J56	19/09/2016 21:04	23/09/2016 17:14	92:10:08	Gear box replacement work
GP49_J61	26/04/2017 14:17	01/05/2017	105:42:25	Gearbox replacement work.
GP49_J61	01/05/2017 00:10	04/05/2017 14:30	86:20:00	Gearbox replacement work.
GP49_J61	04/05/2017 14:30	04/05/2017 15:10	00:40:00	Gearbox replacement work.
GP49_J61	04/05/2017 15:10	06/05/2017 09:40	42:30:00	Gearbox replacement work.
GP49_J61	06/05/2017 09:40	12/05/2017 23:20	157:40:56	Gearbox replacement work.

<b>WTG No</b>	<b>Wtg Stop date</b>	<b>Wtg Start date</b>	<b>Reason</b>
JW55	20/11/2016	30/11/2016	Blade B Lightning repair work
JW62	22/11/2016	03/12/2016	Blade A Lightning repair work
JW54	25/11/2016	08/12/2016	Blade B Lightning repair work
JW24	29/09/2017	12/10/2017	Blade A Lightning repair work

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## Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
08.0	6 April 2021	Revision to: <ul style="list-style-type: none"> <li>• Reflect the “Clarification: Regulatory requirements under temporary measures for post-2020 cases” (CDM-EB109-A01-CLAR).</li> </ul>
07.0	31 May 2019	Revision to: <ul style="list-style-type: none"> <li>• Ensure consistency with version 02.0 of the “CDM project standard for project activities” (CDM-EB93-A04-STAN);</li> <li>• Add a section on remarks on the observance of the scale limit of small-scale project activity during the crediting period;</li> <li>• Add "changes specific to afforestation or reforestation project activity" as a possible post-registration changes;</li> <li>• Clarify the reporting of net anthropogenic GHG removals for A/R project activities between two commitment periods;</li> <li>• Make editorial improvements.</li> </ul>
06.0	7 June 2017	Revision to: <ul style="list-style-type: none"> <li>• Ensure consistency with version 01.0 of the “CDM project standard for project activities” (CDM-EB93-A04-STAN);</li> <li>• Make editorial improvements.</li> </ul>
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: <ul style="list-style-type: none"> <li>• Include provisions related to delayed submission of a monitoring plan;</li> <li>• Provisions related to the Host Party;</li> <li>• Remove reference to programme of activities;</li> <li>• Overall editorial improvement.</li> </ul>
04.0	25 June 2014	Revisions to: <ul style="list-style-type: none"> <li>• Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0));</li> <li>• Include provisions related to standardized baselines;</li> <li>• Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1;</li> <li>• Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>;</li> <li>• Editorial improvement.</li> </ul>
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB 70, Annex 11).

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01.0	28 May 2010	EB 54, Annex 34. Initial adoption.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: monitoring report		