



SQAC CERTIFICATION PVT.LTD.

Verification Report for

Project : 14 MW Wind Power Project by M/S BMD Power Pvt. Ltd.,
Noida.

UCR Project ID : 401

Name of Verifier	SQAC Certification Pvt. Ltd.
Date of Issue	April 19, 2024
Project Proponent	M/s. BMD Power Pvt. Ltd.
UCR Project Aggregator	Inox Green Energy Service Limited
Work carried by	Mr. Santosh Nair
Work reviewed by	Mr. Praful Shinganapurkar

Summary:

SQAC Certification Pvt. Ltd., has performed verification of the “14 MW Wind Power Project by M/S BMD Power Pvt. Ltd., Noida” which generates electrical power using wind energy which is generated from seven windmills of total capacity 14MW from Karajangi and Valsang villages of Sangali District in the state of Maharashtra, India, there by displacing non-renewable fossil resources resulting to sustainable, economic and environmental development.

The project activity meets the following UN SDG's:



Verification for the period: **01.11.2015 to 31.12.2022** (7 Years 02 months)

Accredited by 5 Jupiter House, Callera Park, Aldermaston, Reading Berkshire RG7 8NN, United Kingdom (UK).

India Office: Off. No. 4, Fifth Floor, Buildmore Business Park, New Canca Bypass Road, Khorlim, Mapusa, Goa – 403 507

Web: www.sqac.in

Email: info@sqac.in Tel: 7219716786 / 87



In our opinion, the total GHG emission reductions over the crediting / verification period stated in the Project Concept Note (PCN) / Monitoring Report (MR), submitted to SQAC are found to be correct and in line with the UCR guidelines.

The GHG emission reductions were calculated on the basis of UCR Protocols which draws reference from, UCR Protocol Standard Baseline, UNFCCC Methodology AMS-I.D: "Grid connected renewable electricity generation", version 18. The verification was done remotely by way of video calls / verification, phone calls and submission of documents for verification through emails.

SQAC is able to certify that the emission reductions from the 14 MW Wind Power Project by M/S BMD Power Pvt. Ltd., Noida, (UCR ID – 401) for the period **01.11.2015 to 31.12.2022 (7 Years 02 months)** amounts to **1,10,091 CoUs (1,10,091 tCO₂eq)**

Detailed Verification Report:

Purpose:

The main purpose of the project activity is the implementation and operation of 14 MW wind power project by BMD Power Pvt. Ltd., (BMD), hereinafter referred to as the Project Proponent (PP). The BMD Wind Projects consists of 7 WTGs of 2.0 MW each at the following locations.

Sr No	Name of Wind Farm	Installed Capacity (MW)	Village/s	District	State
01	BMD Power Pvt Ltd	14	Karajangi, Valsang. (site- Vaspeth)	Sangali	Maharashtra

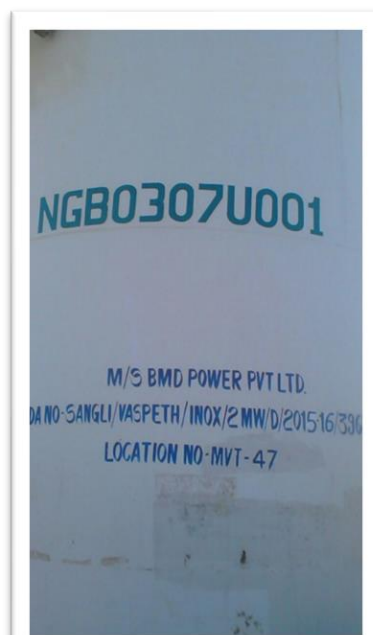
BMD holds complete ownership of the wind farm project. The project is developed by M/S Shree Maruti wind park developers. The generated electricity from the WTGs is grid connected wind power project located in Karajangi and Valsang village of Sangali District in the state of Maharashtra (India). The purpose of this plant installation to supply electricity to regional MS&EDCL Grid.

The wind farm's operation entails a continuous reduction of greenhouse gas (GHG) emissions, qualifying it for voluntary carbon offset units (CoUs) under the "Universal Carbon Registry" (UCR). In the absence of this project, electricity would have been sourced from fossil fuel-based grid-

connected power plants, exacerbating anthropogenic GHG emissions. However, the nature of wind projects as renewable energy sources ensures no involvement of fossil fuels in power generation, thus directly contributing to climate change mitigation by displacing equivalent power generation from fossil fuel sources and reducing CO₂ emissions into the atmosphere.

The commissioning dates of individual 2 MW WTG's is as below:

Sr. No.	WTG No.	WTG Model	Commissioning Date
1	MVT-01	IWISL/2000/13-14/3958	30-03-2014
2	MVT-12	IWISL/2000/13-14/3959	30-03-2014
3	MVT-46	IWISL/2000/13-14/3961	30-03-2014
4	MVT-37	IWISL/2000/14-15/3960	31-03-2014
5	MVT-47	IWISL/2000/15-16/3962	03-10-2015
6	MVT-03	IWISL/2000/15-16/4356	03-10-2015
7	MVT-08	IWISL/2000/15-16/3968	31-10-2015



MAHAVITARAN
MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
CIRCLE OFFICE: SANGLI
Ph No - (0233) 2301744-47 Fax - (0233) 2300223 E-mail - sangli@mahadcom.in

Ref.No.SE/SC/DyEE/Wind Mill/ **No 4828** Date: **15 MAY 2014**

To,
M/s. BMD Power Pvt. Ltd.,
Bhiliwara Towers A-12, Sector-1
Noida- 201 301

Subject:- Commissioning of One No of 2000 KW Wind Electric Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. No. MVT-1, Gut No.257, at Village- Karajangi, Site-Vaspeth, Tal-Jath, Dist-Sangli.

Ref:- 1. Dir[O]L.No.DO/MSEDCL/NCE/Wind/4001, Dt. 15.02.2006
2. Comm/CP/Wind/New Comm./BMD Power/10207, Dt. 27.03.2014.
3.PGN-I/CC/BMD/2.0 MW/2013-14/1645, Dt. 29.03.2014.
4. SE(Elect) charging permission Letter no. 910, Dt. 27.03.2014.
5. SMWPD/SNG/PDD/Comm/13-14/08, Dt. 29.03.2014.
6. T.O.L.No. SE/SC/DyEE/Wind Mill/No-3217, Dt. 29.03.2014.
7. EE/KM/Tech/Wind Mill/002070, Dt. 07.05.2014.

One No of 2000 KW Wind Electric Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. No. **MVT-1**, Gut No.257, at Village- Karajangi, Site- Vaspeth, Tal-Jath, Dist-Sangli, is commissioned on **30th March 2014** in presence of the Executive Engineer O & M Division Kavathenahol, Executive Engineer Testing Division Sangli, Dy. Executive Engineer [W/M] Circle Office, Sangli and the representative of M/s Sri Maruti Wind Park Developers, Satoru. The wind machines under inspection started supplying power to MSEDCL Grid at common metering point at 132-110/33 KV Valsang S/stn.

The details of 33KV overhead line and the other metering equipment charged is as detailed hereunder:-
13KM D/C, 33KV Over-head Line, Feeder No- 6 at 132-110/33KV Valsang S/s and metering arrangement is commissioned to Vaspeth Wind Farm Site, developed by M/s Sri Maruti Wind Park Developers.

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MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
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Ph No - (0233) 2301744-47 Fax - (0233) 2300223 E-mail - sangli@mahadcom.in

Ref.No.SE/SC/DyEE/Wind Mill/ **No 4842** Date: **15 MAY 2014**

To,
M/s. BMD Power Pvt. Ltd.,
Bhiliwara Towers A-12, Sector-1 Noida-201 301.

Subject:- Commissioning of Two No's of 2000 KW Wind Electric Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. No. MVT-12, Gut No.105, at Village- Valsang, Site- Vaspeth, Tal-Jath, Dist-Sangli.

Ref:- 1. Dir[O]L.No.DO/MSEDCL/NCE/Wind/4001, Dt. 15.02.2006
2. Comm/CP/Wind/New Comm./BMD Power/09562, Dt. 21.03.2014.
3.PGN-I/CC/BMD/2.0 MW/2013-14/1405, 1415, Dt. 24.03.2014.
4. SE(Elect) charging permission Letter no. 912, Dt. 27.03.2014.
5. SMWPD/SNG/PDD/Comm/13-14/09, Dt. 29.03.2014.
6. T.O.L.No. SE/SC/DyEE/Wind Mill/No-3215, Dt. 29.03.2014.
7. EE/KM/Tech/Wind Mill/002071, Dt. 07.05.2014.

Two No's of 2000 KW Wind Electric Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. No. **MVT-12**, Gut No.105, at Village- Karajangi, Loc. No. **MVT-46**, Gut No. 294, at Village- Valsang, Site- Vaspeth, Tal-Jath, Dist-Sangli, is commissioned on **30th March 2014** in presence of the Executive Engineer O & M Division Kavathenahol, Executive Engineer Testing Division Sangli, Dy. Executive Engineer [W/M] Circle Office, Sangli and the representative of M/s Sri Maruti Wind Park Developers, Satoru. The wind machines under inspection started supplying power to MSEDCL Grid at common metering point at 132-110/33 KV Valsang S/stn.

The details of 33KV overhead line and the other metering equipment charged is as detailed hereunder:-
13KM D/C, 33KV Over-head Line, Feeder No- 6 at 132-110/33KV Valsang S/s and metering arrangement is commissioned to Vaspeth Wind Farm Site, developed by M/s Sri Maruti Wind Park Developers.

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Ph No - (0233) 2301744-47 Fax - (0233) 2300223 E-mail - sangli@mahadcom.in

Ref.No.SE/SC/DyEE/Wind Mill/ **No 4853** Date: **15 MAY 2014**

To,
M/s. BMD Power Pvt. Ltd.,
Bhiliwara Towers A-12, Sector-1 Noida- 201 301

Subject:- Commissioning of One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. MVT- 37, Gut no- 354, Village- Valsang, at Site- Vaspeth, Tal-Jath, Dist- Sangli.

Ref:- 1. Dir [O]L.No.DO/MSEDCL/NCE/Wind/4001, dt. 15/02/2006,
2. Comm/CP/Wind/New Comm./BMD Power/no. 9562,dt. 21.03.2014,
3. PGN-I/CC/BMD/2.0 MW/2013-14/1726, dt. 29/03/2014,
4. SE(Elect) Temporary WTG's Charging Permission Letter no. 912, dt.27.03.2014,
5. SMWPD/SNG/PDD/Comm/13-14/14, dt. 29.03.2014,
6. T.O.L.No. SE/SC/DyEE/Wind Mill/no.3224, dt. 29.03.2014,
7. EE/KM/Tech/Wind Mill/002079, dt. 07.05.2014.

One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. **MVT- 37**, Gut no- 354, Village- Valsang, at Site- Vaspeth, Tal-Jath, Dist- Sangli, is commissioned on **31st March 2014** in presence of the Executive Engineer O&M Division, Kavathenahol, Executive Engineer Testing Division Sangli, Dy. Executive Engineer [W/M] Circle Office, Sangli and the representative of M/s. Sri Maruti Wind Park Developers. The wind machines under inspection started supplying power to MSEDCL Grid at common metering point at 132-110/33 KV Jath S/stn.

MAHAVITARAN
(A Govt. of Maharashtra Undertaking)
CIN : U40109MH2005SG6153645
MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
CIRCLE OFFICE: SANGLI
Ph No - (0233) 2301744-47 Fax - (0233) 2300223 E-mail - sangli@mahadcom.in

Ref.No.SE/SC/Adtl. EE/Wind Mill/ **No 11002** Date: **04 NOV 2015**

To,
M/s. BMD Power Pvt. Ltd.,
Bhiliwara Towers, A-12, Sector- 1,
Noida - 201 301.

Subject :- Commissioning of One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. MVT - 03 Gut no - 222, Village - Karajangi at Site - Vaspeth, Tal-Jath, Dist- Sangli.

Ref:- 1. Dir [O]L.No.DO/MSEDCL/NCE/Wind/4001, Dt. 15.02.2006.
2. CE - Comm/CP/Wind/Extension/BMD/no.35228, Dt. 29.09.2015.
3. PGN-I/TTC/BMD/2.0 MW/2015-16/3281, Dt. 29.09.2015.
4. SE(Elect)/AEI/1890/2014-15, Dt. 10.09.2014.
5. SMWPD/SNG/Comm/Oct-2015/158, Dt. 01.10.2015.
6. T.O.L.No. SE/SC/Adtl. EE/Wind Mill/9616, Dt.01.10.2015.
7. EE/KM/Tech/Wind Mill/4310, Dt. 03.11.2015.

One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. **MVT - 03** Gut no - 222, Village - Karajangi at Site - Vaspeth, Tal-Jath, Dist- Sangli, is commissioned on **03rd October 2015** in presence of the Executive Engineer O&M Division, Kavathenahol, Executive Engineer Testing Division Sangli, Adtl. Executive Engineer [W/M] Circle Office, Sangli and the representative of M/s. Sri Maruti Wind Park Developers, wind machines under inspection started supplying power to MSEDCL Grid at common metering point at 220/33 KV Shedyal S/stn.

The details of 33KV overhead line and the other metering equipment charged is as detailed hereunder:-

MAHAVITARAN
(A Govt. of Maharashtra Undertaking)
CIN : U40109MH2005SG6153645
MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
CIRCLE OFFICE: SANGLI
Ph No - (0233) 2301744-47 Fax - (0233) 2300223 E-mail - sangli@mahadcom.in

Ref.No.SE/SC/Adtl. EE/Wind Mill/ **No 10999** Date: **04 NOV 2015**

To,
M/s. BMD Power Pvt. Ltd.,
Bhiliwara Towers, A-12, Sector- 1,
Noida - 201 301.

Subject :- Commissioning of One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. MVT - 47 Gut no - 355, Village - Valsang at Site - Vaspeth, Tal-Jath, Dist- Sangli.

Ref:- 1. Dir [O]L.No.DO/MSEDCL/NCE/Wind/4001, Dt. 15.02.2006.
2. Comm/CP/Wind/Extension/BMD/no.39230, Dt. 29.09.2015.
3. PGN-I/TTC/BMD/2.0 MW/2014-15/1216, Dt. 31.03.2015.
4. SE(Elect)/AEI/1885/2014-15, Dt. 10.09.2014.
5. SMWPD/SNG/Comm/Oct-2015/158, Dt. 01.10.2015.
6. T.O.L.No. SE/SC/Adtl. EE/Wind Mill/9616, Dt.01.10.2015.
7. EE/KM/Tech/Wind Mill/4308, Dt.03.11.2015.

One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. **MVT - 47** Gut no - 355, Village - Valsang at Site - Vaspeth, Tal-Jath, Dist- Sangli, is commissioned on **03rd October 2015** in presence of the Executive Engineer O&M Division, Kavathenahol, Executive Engineer Testing Division Sangli, Adtl. Executive Engineer [W/M] Circle Office, Sangli and the representative of M/s. Sri Maruti Wind Park Developers, wind machines under inspection started supplying power to MSEDCL Grid at common metering point at 220/33 KV Shedyal S/stn.

The details of 33KV overhead line and the other metering equipment charged is as detailed hereunder:-

MAHAVITARAN
(A Govt. of Maharashtra Undertaking)
CIN : U40109MH2005SG6153645
MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
CIRCLE OFFICE: SANGLI
Ph No - (0233) 2301744-47 Fax - (0233) 2300223 E-mail - sangli@mahadcom.in

Ref.No.SE/SC/Adtl. EE/Wind Mill/ **No 11174** Date: **07 NOV 2015**

To,
M/s. BMD Power Pvt. Ltd.,
LNT Nagar, Village Wardi,
Dist Banswara (Rajasthan)

Subject :- Commissioning of One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. MVT- 08 Gut no - 343 Village - Valsang at Site- Vaspeth, Tal-Jath, Dist- Sangli.

Ref:- 1. Dir [O]L.No.DO/MSEDCL/NCE/Wind/4001, Dt. 15.02.2006.
2. Comm/CP/Wind/Extension/BMD/no.38067, Dt. 30.10.2015.
3. PGN-I/TTC/BMD/2.0 MW/2014-15/1217, Dt. 31.03.2015.
4. SE (Elect)/AEI/1888/2014-15, Dt. 10.09.2014.
5. SMWPD/SNG/Comm/Oct-2015/192, Dt. 31.10.2015.
6. T.O.L.No. SE/SC/ADTL EE/Wind Mill/10802, Dt.31.10.2015.
7. EE/KM/Tech/Wind Mill/004935, Dt. 06.11.2015.

One no of 2000 KW Wind Turbine Generators in r/o M/s. BMD Power Pvt. Ltd. Loc. no. **MVT- 08** Gut no - 343 Village - Valsang at Site- Vaspeth, Tal-Jath, Dist- Sangli, is commissioned on **31st October 2015** in presence of the Executive Engineer O&M Division, Kavathenahol, Executive Engineer Testing Division Sangli, Adtl. Executive Engineer [W/M] Circle Office, Sangli and the representative of M/s. Sri Maruti Wind Park Developers, wind machines under inspection started supplying power to MSEDCL Grid at common metering point at 220/33 KV Shedyal S/stn.

The details of 33KV overhead line and the other metering equipment charged is as detailed hereunder:-
9.5 KM D/C, 33KV Over-head Line, Feeder No- 6 at 220/33KV Shedyal S/stn and metering arrangement is commissioned to Vaspeth Wind Farm Site, developed by M/s Sri Maruti Wind Park Developers.

Scope:

The scope covers verification of emission reductions from the project - 14 MW Wind Power project by BMD Power Pvt. Ltd., (UCR ID – 401)

Criteria:

Verification criteria is as per the requirements of UCR Standard.

Description of project:

Project Name: 14 MW Wind Power Project by BMD Power Pvt. Ltd.

Project Capacity: 14 MW

Units: 7 WTG

The project activity titled; 14 MW Wind Power Project by BMD Power Pvt. Ltd. is the installation of new grid connected renewable power plants/units. The baseline scenario and scenario existing prior to the implementation of the project activity are both the same.

Technical details of the machines installed are explained below:

Model		
1	Turbine Model	Inox WT2000DF
Operating Data		
2	Rated power	2000 kW
3	Cut in wind speed	3.0m/s
4	Rated wind speed	<=11.5m/s
5	Cut-out Wind speed	20.0m/s
6	Hub Height	80m
Rotor		
7	Rotor Diameter	93.3m
9	Rotor Area	6795m ²
10	No of Rotor blade	3
Generator		
11	Type	Asynchronous
12	Power regulation	Pitch
Tower		
13	Type	tubular
14	Hub height	80m
15	Rated voltage	690V

Total GHG emission reductions achieved or net anthropogenic GHG removals by sinks achieved in this monitoring period:

Summary of the Project Activity and ERs Generated for the Monitoring Period	
Start date of this Monitoring Period	01/11/2015
Carbon credits s (CoUs) claimed up to	31/12/2022
Total ERs generated (tCO ₂ eq)	1,10,091 (expressed as CoUs)
Project Emission (tCO ₂ eq)	0
Leakage (tCO ₂ eq)	0

United Nations Sustainable Development Goals:

The project activity generates electrical power using wind energy which is generated from windmills, thereby displacing non-renewable fossil resources resulting to sustainable, economic and environmental development. In the absence of the project activity equivalent amount of power generation would have taken place through fossil fuel dominated power generating stations. Thus, the renewable energy generation from project activity will result in reduction of the greenhouse gas emissions. Positive contribution of the project to the following Sustainable Development Goals:

- SDG13: Climate Action
- SDG 7: Affordable and Clean Energy
- SDG 8: Decent Work and Economic Growth

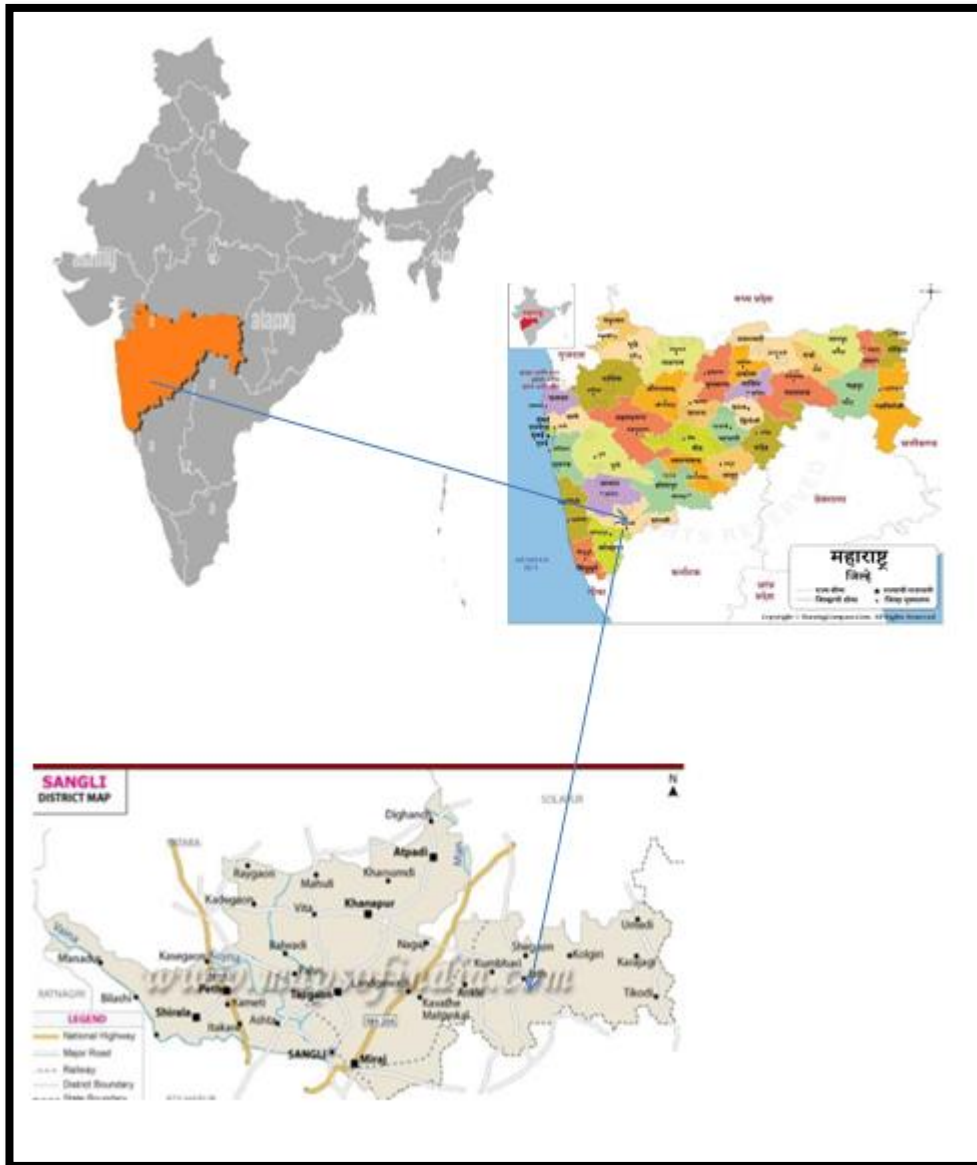
Location of project activity:

State: Maharashtra

Country: India

Sr. No.	WTG No.	Latitude	Longitude	Village	Site	Gut No.	Tehsil	District
1	MVT-01	N170615.6	E751749.1	Karanjangi	Vaspeth	257	Jath	Sangali
2	MVT-12	N170522.0	E751818.4	Karanjangi	Vaspeth	105	Jath	Sangali
3	MVT-46	N170505.4	E751820.7	Valsang	Vaspeth	294	Jath	Sangali
4	MVT-37	N170428.7	E751841.8	Valsang	Vaspeth	354	Jath	Sangali
5	MVT-47	N170441.3	E751844.9	Valsang	Vaspeth	355	Jath	Sangali
6	MVT-03	N170608.9	E751712.0	Karanjangi	Vaspeth	222	Jath	Sangali
7	MVT-08	N170407.2	E751848.1	Valsang	Vaspeth	343	Jath	Sangali

The representative location map is included below:



Level of Assurance:

The verification report is based on the information collected through interviews conducted over video calls / phone calls, supporting documents provided during the verification, Project Concept Note (PCN) / Monitoring Report (MR), submitted to SQAC. The verification opinion is assured provided the credibility of all the above.

Verification Methodology:

Review of the following documentation was done by SQAC Verifier, Mr. Santosh Nair, who is experienced in such projects.

- Project Concept Note (PCN)
- Monitoring Report (MR)
- Commissioning Certificate of 7 nos. WTG's
- Calibration Certificates
- Credit Notes - MSEDCL
- Power Purchase Agreement
- Data provided upon request of all the documents of the related projects.

Sampling:

Since there are 7 Wind Turbine generators (WTGs) installed of total capacity of 14 MW, 3 WTG's have been selected for complete site monitoring through video, which is MVT-08, MVT-47 & MVT-37

Persons interviewed:

1. Mr. Ravindra Vishwanath Nehete - Deputy Manager: M/s. BMD Power Pvt. Ltd.
2. Mr. Saurabh Tyagi - AGM: M/s. Inox Green Energy Service Limited.



Jails: (Old meter)					
Make	~Walshy	i(Meter's Sr.No.	~ HT11140157		
ii) Type	~ MKSE	ii) Voltage Rating	~11 A		
iii) Pulses/Unit	~ 42400	iii) Voltage Rating:	~110V/110 V.		
iv) SMF for M.D.	~10mm	iv)No. of digits	~as per meter display		
v) SMF for Units	~10mm	v)Meter Class	~0.2s		

Reading:-										
Reset Count:-		74								
	KWH	KVARH LAG	KVARH LEAD	KVAH	KVA MD					
IMPORT	488.67	437.59	110.83	694.36	0.14					
EXPORT	137453.607	4753.39	3431.21	13810.12	1.63					
IMPORT	EXPORT	IMPORT	EXPORT	IMPORT	EXPORT					
A	95.36	47488.19	104.11	3526.29	29.39	443	146.62	47783.32	0.16	1.26
B	252.7	449891.41	202.87	1727.35	51.66	527.68	344.4	47363.91	0.12	1.6
C	76.71	16129.75	52.31	636.98	19.6	152.21	98.58	26252.46	0.06	2.63
D	63.86	26596.09	78.28	760.75	10.16	308.29	104.75	26702.43	0	0.87

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Application of methodologies and standardized baselines

References to methodologies and standardized baselines

SECTORAL SCOPE – 01 Energy industries (Renewable/Non-renewable sources)

TYPE I – Renewable Energy Projects

Scale – Small Scale

Applied UNFCCC CDM Baseline Methodology: AMS-I.D: “Grid connected renewable electricity generation”, version 18.

The project activity involves generation of grid connected electricity from the construction and operation of a new Wind power-based project and to use for captive purpose via grid interface by wheeling through state electricity board i.e. MSEDCL under the Power Purchase Agreement (PPA) signed between the Project Proponent (PP) and the utility.

The project activity has installed 7 WTGs of capacity 14MW each which will qualify for a small- scale project activity under Type-I of the Small-Scale methodology. The project status is corresponding to the methodology AMS-I.D., version 18 and applicability of methodology is discussed below:

- ❖ This project is included within the UCR Standard Positive List of technologies and is within the small-scale CDM thresholds (i.e., installed capacity less than 15 MW). The UCR positive list comprises of: (a) generation of grid connected electricity from the construction and operation of a new wind power-based power project for supply to grid.
- ❖ Project activity involves power generation with installed capacity of 14 MW.
- ❖ The project activity is a Renewable Energy Project i.e., Wind Power Project which satisfies the applicability criteria option (a) i.e., “Install a Greenfield plant”. Hence the project activity meets the given applicability criterion of AMS-I.D..

- ❖ The project activity is wind energy power project and not a hydro power project activity.
- ❖ The project activity does not involve any retrofit measures nor any replacement to existing WEGs. Hence there are no new units having either renewable or non-renewable components (e.g., a wind/diesel unit).
- ❖ The project activity is not a combined heat and power (co-generation) system.
- ❖ No biomass is involved, the project is only a wind energy power project. The case for retrofit, rehabilitation or replacement, towards a Large-scale project is also not applicable.
- ❖ The project activity is a voluntary coordinated action. The project activity is a greenfield of 14 MW Wind Electric Project, i.e., no capacity addition was done to any existing power plant.
- ❖ The project activity is not a landfill gas, waste gas, wastewater treatment and agro-industries project, and does not recover methane emissions and is not eligible under any relevant Type III category.
- ❖ The project activity comprises of renewable power/energy generation through wind energy and displaces fossil fuel powered electricity from the regional grid by supplying renewable power to the grid itself. Hence this UNFCCC CDM Methodology is applicable and fulfilled.
- ❖ The project activity involves the installation of new power plants at listed sites where there was no renewable energy power plant operating prior to implementation of project.

Applicability of double counting emission reductions

There is no double accounting of emission reductions in the project activity due to the following reasons:

- Project is uniquely identifiable based on its location coordinates,
- Project has dedicated commissioning certificate and connection point,
- Project is associated with energy meters which are dedicated to the generation/feeding point with the grid.

Agreement for Double Counting Avoidance has been provided duly signed by M/s. Gujarat Fluorochemicals Limited on 15.04.2024.

Project boundary, sources and greenhouse gases (GHGs)

As per applicable methodology AMS-I.D. Version 18, “The spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the UCR project power plants are connected”. The project boundary encompasses the physical, geographical site of the wind energy power plant, the energy metering equipment and the connected regional electricity grid.

	Source	GHG	Included?	Justification/Explanation
Baseline	Grid connected electricity generation	CO ₂	Included	Major source of emission
		CH ₄	Excluded	Excluded for simplification. This is conservative
		N ₂ O	Excluded	Excluded for simplification. This is conservative
Project Activity	Greenfield Wind Power Project Activity	CO ₂	Excluded	Excluded for simplification. This is conservative
		CH ₄	Excluded	Excluded for simplification. This is conservative
		N ₂ O	Excluded	Excluded for simplification. This is conservative

Establishment and description of baseline scenario (UCR Protocol)

As per para 19 of the approved consolidated methodology AMS-I.D. Version 18, if the project activity is the installation of a new grid-connected renewable power plant/unit, the baseline scenario is the following:

“The baseline scenario is that the 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 into the grid”.

Net GHG Emission Reductions and Removals:

$$ER_y = BE_y - PE_y - LE_y$$

Where:

ER_y = Emission reductions in year y (tCO₂/y)

BE_y = Baseline Emissions in year y (t CO₂/y)

PE_y = Project emissions in year y (tCO₂/y)

LE_y = Leakage emissions in year y (tCO₂/y)

Baseline Emissions

Baseline emissions include only CO₂ emissions from electricity generation in power plants that are displaced due to the project activity.

The Baseline Emissions to be calculated are as follows: $BE_y = EG_{BL,y} \times EF_{CO_2, GRID, y}$

Where:

BE_y = Emission reductions in year y (tCO₂)

$EG_{BL,y}$ = Quantity of net electricity supplied to the grid as a result of the implementation of the UCR project activity in year y (MWh)

$EF_{CO_2, GRID, y}$ = UCR recommended emission factor of 0.9 tCO₂/MWh has been considered, this is conservative as compared to the combined margin grid emission factor which can be derived from Data base of Central Electricity Authority (CEA), India. (Reference: General Project Eligibility Criteria and Guidance, UCR Standard, Page 4)

Year	Total Units exported to grid in KWh	Total Units exported to grid in MW
2015	8,92,157.1893	892.1571893
2016	1,21,77,673.8840	12177.67388
2017	1,98,26,685.0526	19826.68505
2018	2,23,60,774.8625	22360.77486
2019	2,45,25,852.7244	24525.85272
2020	1,27,22,158.1503	12722.15815
2021	1,28,13,345.0752	12813.34508
2022	1,70,09,662.8170	17009.66282
Total	12,23,28,309.7552	122328.3

Issuance Period: 01.11.2015 to 31.12.2022 (07 years 02 months)

(BE_y) = 122328.3 MWh * 0.9 tCO₂/MWh = 1,10,091 tCO₂e (rounddown value)

Total baseline emission reductions (BE_y) = **1,10,091** CoUs (**1,10,091** tCO₂eq)

Emissions:

a) Project Emissions

As per paragraph 39 of AMS-I.D. (version 18, dated 28/11/2014), for most renewable energy project activities emission is zero.

Thus, $PE_y = 0$.

b) Leakage Emissions

As per paragraph 42 of AMS-I.D. version-18, all projects other than Biomass projects have zero leakage.

Hence, $LE_y = 0$

Total Emission reduction by the project for the current monitoring period is calculated as below:

Hence, $ER_y = 1,10,095 - 0 - 0 = 1,10,091$ CoUs

Total Emission Reductions (ER_y) = **1,10,091** CoUs (**1,10,091** tCO₂eq)

Year	ER _y
2015	802
2016	10959
2017	17844
2018	20124
2019	22073
2020	11449
2021	11532
2022	15308
Total	1,10,091

Conclusions:

Based on the audit conducted on the basis of UCR Protocol, which draws reference from UCR Protocol Standard Baseline, AMS-I.D. "Grid connected renewable electricity generation", version 18, the documents submitted during the verification including the data, Project Concept Note (PCN) / Monitoring Report (MR), SQAC is able to certify that the emission reductions from the project - 14 MW Wind Power Project by M/S BMD Power Pvt. Ltd, Noida (UCR ID – 401) for the period 01.11.2015 to 31.12.2022 amounts to **1,10,091 CoUs (1,10,091 tCO₂eq)**



Santosh Nair
Lead Verifier (Signature)



Praful Shinganapurkar
Senior Internal Reviewer (Signature)

Date: 19/04/2024