

Gujarat Energy Development Agency

4th Floor, Block No.11&12, Udyog Bhavan, Sector-11, Gandhinagar 382 017

Phone Nos. 079-232-47086/89/90, Fax: 079-232-47097

Web site: www.geda.org.in, e-mail: info@geda.org.in

Application form for setting up of Windfarm under the provisions of the Government of Gujarat's resolution No.EDA-102001-3054-B dated 13-6-07

1	Name of the applicant	
2	Address of the registered Office	
3	Telephone Numbers	
4	Fax Number	
5	e-mail	
6	Type of applicant (Individual / HUF / Partnership / Limited Co. / Pvt. Ltd. Co./ Public Ltd. etc) Enclose the certificate/s of registration issued by Statutory/Government Body with whom the applicant is registered.	
7	Name of the M.D. / CEO of the applicant	
8	Name, designation of the authorized signatory (Please enclose authority letter signed by the MD/CEO)	
9	Nature and activities of the applicant (Please enclose latest copy of the Annual report)	
10	Name of the Windfarm Developer	
11	Wind farm capacity proposed for installation, MW	

12	Nos. and ratings of Wind turbines (Please enclose the declaration of the newness of the Wind turbines in format prescribed)	
13	Identification numbers of the Wind turbines as specified in the micrositing drawing.	
14	Name of the Site of installation (Please enclose four copies of the micrositing drawing)	
15	Category of land (Govt. land / private land)	
16	Land Status (Leased / Owned) Please enclose certified copy of the registered lease/sale deed)	
17	Name & capacity of the Windfarm Substation to which the Windfarm is proposed to be connected	
18	Name & capacity of the GETCO Substation to which the Windfarm is proposed to be connected.	
19	Rating and circuit nos. of the transmission line between the Windfarm and GETCO Substation.	
20	Proposed end use of electricity (Selling/Wheeling/Third party sale)	
21	Name & address/es of the Unit where the wheeling is to be done.	
22	Name & address of the DISCOM/licensee under whose jurisdiction the unit/s at sr.no.21 is located. (Please enclose a copy of the latest electricity bill)	
23	Approx .present annual consumption of electricity, kWh	
24	Expected date of commissioning of the project	

25	Details of earlier Windfarm set up by the applicant in the State, if any,	
	a. Windfarm Capacity, MW	
	b. Year of Commissioning	
	c. Location of the Windfarm	
	d. End use of electricity	Selling/ Wheeling
	e. Name of the DISCOM /licensee	
26	Name, designation of the Officer and the mailing address of the applicant, and e-mail address, where the monthly share of electricity certificate is desired to be sent	
27	Application (transfer fee) paid, Rs.	
28	Annual Certification Charges paid, Rs.	
29	Bank DD No. and date and bank name	
30	Declaration to be signed by the M.D. / CEO / authorised signatory of the applicant	

I, (Name & designation) _____ authorised representative of M/s. _____ declare that the information filled in the application form is true and correct to my knowledge and that, I have read the terms and conditions provided with this application form and those in the G.R. dated 13 th June 2007, and the orders of GERC applicable to power generation from Wind, and I agree to abide by the same. I understand that GEDA is neither responsible for the feasibility of the site for its wind power potential, nor for providing power evacuation facilities, its operation and maintenance and its uninterrupted functioning & that GEDA is absolved from any loss of power generation/revenue that may occur on account of failure and/ or inadequacy of the substation/ transmission line, wind data and feasibility/ potentiality of the site for wind power generation, etc. It is certified that, I have ascertained that the Wind Turbine Generators proposed to be installed under this application are new ones and are unused prior to their proposed installation and that the model of WTGs proposed for installation is/are approved by the recognised test house.

Seal of the Company
Place:

Signature of the MD/ CEO/ Authorised Signatory
Date:

Gujarat Energy Development Agency
4th Floor, Block no. 11/12, UdyogBhavan, Gandhinagar
Phone : 079-23247086/89/90, Fax. no 079-23247097
E-mail: info@geda.org.in Website:- www.geda.org.in

Instructions/Guidelines/Terms & Conditions for setting up of Windfarm

1) Application form:

This form is for applicants who intend to set up Windfarm through a Developer of Windfarm, who under the Windfarm capacity sanction given by GEDA, have already created the required infrastructure required for the windfarm project and the same is being transferred to the applicant by the Developer, for its installation and commissioning.

The application form for obtaining permission for setting up of Windfarm project in the state of Gujarat, can be obtained from the Office of GEDA, Gandhinagar or could be downloaded from the web site of the Agency.

The permission granted for setting up of Windfarms to the private companies, shall be governed by the provisions of the, "Wind Power Policy-2007", declared by the state Government vide its resolution No.EDA-102001-3054-B dated 13th June, 2007 (Copy enclosed at Annexure -1), the orders pertaining to Wind Power Generation issued by the GERC from time to time, the terms and conditions at which the permission is granted to the Developer and those mentioned below:

The application form shall be filled in all respect, relevant information requested for, shall be enclosed with the application form, separate sheets, if required, for providing the information be attached, not applicable options stricken off. All requisite fees / processing charges etc. shall be paid along with the application form, unless otherwise specified, in the form of a bank demand draft drawn on a nationalised bank in favor of, "Gujarat Energy Development Agency", payable at Gandhinagar. Incomplete applications shall be processed after furnishing of the residual information. The date of application of such applications shall be reckoned from the date of the submission of the residual information.

The application form shall be signed and sealed by an employee / Director of the applicant company, who should be authorized by the Board of Directors of the company, for signing all the documents, legal deeds and correspondence, pertaining to the proposed Windfarm project. A copy

of the resolution of the Board of Directors, authorizing the employee as signatory, be enclosed with the application form on Rs. 50 /- stamp paper. In case of partnership firm, the application form shall be sealed and signed by the partners. A copy of the latest annual report, and Memorandum of Association / partnership deed duly certified by company secretary of the applicant company shall be furnished along with the application form.

The permission granted for setting up of Windfarm shall be valid for installation and commissioning of the Windfarm within a period of one year from the date of the permission granted.

In the event of any dispute regarding the interpretation of the provisions of the above referred Government resolution, GERC orders and the other terms and conditions prescribed herein, the decision of the Government, GERC and the Director, GEDA, respectively, shall be final and binding to the applicants.

2) Application Processing /(transfer fee) and Certification Charges:

The one time non-refundable application processing / (transfer) fee inclusive of the Windfarm Commissioning charges, to be paid along with the application form shall be Rs. 20,000 / MW. (Minimum Rs. 20,000). An annual recurring charge @ Rs. 10,000 / MW, in advance, shall be paid to GEDA towards the monthly electricity metering and certification.

3) Potential sites :

A list of non-exhaustive potential sites for setting up of Windfarms is given at Annexure- 2. The Windfarms could be set up within the revenue limits of the sites listed in the said annexure. The relevant data of the location of the site, its elevation, wind speed and density are on the basis of the long term data collected under the aegis of the Ministry of Non-conventional Energy Sources. The wind data is likely to vary with time and atmospheric conditions. It is advised that the applicant ascertains the feasibility of the site and expected energy output from the Wind farm, prior to selection of a site and micrositing of the Wind turbines.

Besides the above referred non-exhaustive list of sites, there could be sites within the vicinity of those listed at the Annexure -2 , or other sites those are independently selected by the Developers on the basis of the wind data monitored by them.

The Government of Gujarat and/or GEDA, neither guarantees the Wind speed nor shall be responsible for sub-optimal generation of electricity, on account of the Wind data of the potential sites/ or any other site where the Windfarm is proposed to be set up.

The applicant shall be allowed to set up windfarms on Government leased land or private land of the applicant or privately leased land within the revenue limits of the potential sites.

4) Plant & Machinery:

Second hand Wind turbine generators (WTG) either indigenous or imported shall not be allowed for installation. The applicant shall give a declaration signed by the MD /CEO/ Authorised signatory regarding the newness of the Wind turbine generators installed and that the Wind turbine generators proposed to be installed are not used ones.

5) Agreement with GETCO/GUVNL

Upon receiving the permission from GEDA for setting up of the Windfarm, the applicant shall enter into an agreement with GETCO/GUVNL/ licensee for the wheeling / selling of electricity generated from the Windfarm, as per the terms and conditions laid by the GETCO/GUVNL. A copy of the agreement entered with GETCO/GUVNL shall be submitted by the applicant to GEDA.

6) Power evacuation:

The Windfarm shall be connected to the nearest GETCO Substation through a requisite transmission line laid between the GETCO Substation and the Windfarm Substation, set up by the Developer, under the approval and as per specifications of GETCO. The applicant shall ensure the adequacy of the power evacuation system.

The applicant shall also ensure installation of Availability based tariff meters (ABT meter) at the Windfarm as per the provisions of the GERC order dated 11th August 2006.

7) Prerequisites for Commissioning of the Windfarm:

The applicant is free to decide the location of the WTG's within the proposed land for the installation of the Windfarm, however; a minimum distance of two and half times the rotor diameter, from all sides of the boundary of their land shall, be maintained. Any dispute/objection regarding the location of the turbine raised by the adjoining land owner shall not be the responsibility of GEDA, and the applicant shall be responsible for resolving any such dispute.

Four ammonia prints, in the scale of 1:80 of the proposed location/micrositing of the Wind turbine generators shall be submitted with the application specifying the revenue survey number/plot number of the land on which the Windfarm is to be installed and also the adjoining land around the windfarm.

The four copies of the micrositing drawings and 11 kV transmission line layout shall be signed and sealed by the applicant, with following details given in the right hand bottom corner.

Name of the applicant: _____

Name of the site: Village: _____ Tal: _____ District: _____

Land Survey No Plot No. : _____ , Land area: _____ Hectare

Wind farm Capacity:___ MW, Number of WTG's: _____, Rating of WTG : _____ kW

Make of WTG: _____, Rotor diameter: _____ meter, Hub height: _____ meter.

ID Numbers of the WTGs. _____

The applicant shall arrange to get the Wind turbine generator and the electrical installations at the Windfarm inspected by the Electrical Inspector, Govt. of Gujarat, and a copy of the inspection certificate of the Electrical Inspector for charging of the same shall be submitted to GEDA, to enable GEDA to take the Windfarm for commissioning.

The applicant shall, upon installation of the Windfarm/ laying of the 11 kV transmission line and inspection by the Electrical Inspector, send a requisition to GEDA, in the prescribed format, (Annexure - 3) for the commissioning of the Windfarm, at least seven days before the proposed date of commissioning of the Windfarm.

The certified copy of the registered sale / lease deed of the land in the name of the applicant , with relevant details of the land documents shall be submitted to GEDA.

The commissioning certificate of the Windfarm shall be issued to the applicant by GEDA, after witnessing of the electricity generation and verification of the major components of the Wind farm.

8.) Metering of Electricity:

The recording of the monthly electricity export from and import to the Windfarm Substation at EHV shall be jointly metered by GEDA and GETCO on 25th day of each month, except for the months of March and September- when it shall be metered on last day of the month. The quantum of net energy exported from the Windfarm Substation to the GETCO Substation and the reactive power drawn from the grid shall be apportioned to all the Windfarm owners connected to the Windfarm substation, on the basis of the energy recording done by the applicant on the individual meters at their Wind turbine generators.

The applicant shall on 25th of each month (last day in the month of March and September) submit the WTG wise data of electricity generation at 415-690 V, and cumulative generation data from the Windfarm at 11-33 kV, to GEDA Office at Porbandar and Tuna (Kutch),

On the basis of the above metering data, a monthly certificate of the share of electricity, shall be sent to all the Windfarm owners, by GEDA Offices at Porbandar / Tuna (Kutch), at the address declared at serial number 26 of the application form. The monthly certificate of the share of electricity shall be submitted by the applicant to GUVNL/GETCO for getting the credit of the electricity supplied.

The applicant shall ensure installation of adequate capacitor banks at the Windfarm to minimise the reactive power drawal and transmission loss from the WTG's upto the Windfarm substation. GEDA shall not be responsible for any transmission loss that may occur. The matters related to selling/ wheeling of electricity shall be directly dealt by the applicant with the GETCO/GUVNL.

9.) Declaration:

The applicant shall sign the declaration/undertaking as specified in the application form.

Government of Gujarat
Energy and Petrochemicals Department
Government Resolution No. EDA-102001-3054-B
Sachivalaya, Gandhinagar.
Dated the 13th June, 2007.

The Government is keen on development of renewable energy sector, given the dwindling resources of fossil fuels, increased threat of global warming and the concern on environmental protection. The state is blessed with long coast line and good wind speeds for harnessing of the Wind Energy. The State of Gujarat is committed to have investment in Clean and Green Energy to reduce Carbon Dioxide emissions. To accelerate the investment in this sector, there is a need to extend Government support. In this context, it was under consideration of the government to review the present wind power policy.

In order to further tap the potential of the Wind Energy, the State Government has decided to announce a New Wind Power Policy – 2007 as follows:

RESOLUTION :

1. Title:

This scheme shall be known as the “ Wind Power Policy – 2007”.

2. Operative Period:

This policy will come into force with effect from 20th June, 2007 and shall remain in operation upto 30th June 2012, which will be the operative period of the scheme. Wind Turbine Generators (WTGs) installed and commissioned during the operative period shall become eligible for the incentives declared under this policy, for a period of twenty years from the date of commissioning or for the life span of the WTGs , whichever is earlier.

3. Eligible Unit:

Any company or body corporate or association or body of individuals, whether incorporated or not, or artificial juridical person, will be eligible for setting up of WTGs, either for the purpose of captive use and /or for selling of electricity, in accordance with the Electricity Act -2003, as amended from time to time.

Explanation:- The use of electricity for own consumption at his end use location/s by the owner of WTGs shall be considered as Captive use.

4. Eligible Sites:

The WTGs may be set up at sites notified by Gujarat Energy Development Agency (GEDA) and/ or any other sites identified as potential site, within the State by the Developer.

5. Wheeling of Electricity:

The wheeling of electricity generated from the WTGs, to the desired location/s within the State, shall be allowed at a wheeling charge of 4% of the energy fed to the grid, as per Gujarat Electricity Regulatory Commission (GERC) order, as amended from time to time.

6. Exemption from payment of Electricity Duty:

Except in case of Third Party Sale of electricity, the electricity generated from the WTGs shall be exempted from payment of Electricity Duty. The sale of electricity other than to GUVNL and/ or any Distribution Licensee in the State, shall be considered as Third Party Sale of Electricity. In case of Third Party Sale, the eligible unit shall have to recover the Electricity Duty from the purchaser, at such rates, as applicable under the Bombay Electricity Duty Act 1958.

7. Exemption from Demand Cut:

Exemption from demand cut to the extent of 30% of the installed capacity of WTGs, assigned for captive use purpose, shall be allowed.

8. Sale of Energy:

The electricity generated from the WTGs may be sold to GUVNL and/ or any Distribution Licensee within the state, at a rate of Rs.3.37 per unit of electricity as per GERC order, as amended from time to time. The requisite Power Purchase Agreement (PPA) shall be done between the purchaser of power and the eligible unit.

9. Third party sale of Energy:

The sale of electricity generated from the WTGs shall also be allowed to a third party, in accordance with the GERC order, as amended from time to time.

10. Land

The WTGs may be set up on private land, or revenue wasteland / GEDA land, if available. The allotment of GEDA land on lease shall be done upon approval of the Co-ordination Committee consisting of the following members.

- i. ACS/ PS/ Secretary (EPD) Chairman
- ii. AS/ JS/ Deputy Secretary (EPD) Member
- iii. Chief Electrical Inspector & Collector of Elect. Duty Member
- iv. General Manager (Comm.), GUVNL Member
- v. Respective District Collector Member
- vi. Director, GEDA Member Secretary

11. Plant and Machinery:

Second hand WTGs shall not be eligible for installation under this Policy. Only such WTGs which are approved either by Ministry of New and Renewable Energy, Government of India, or by recognized international test houses, shall be eligible.

12. Metering of Electricity:

The electricity generated from the WTGs, shall be metered on a monthly basis jointly by GEDA/GETCO at the sending sub-station of 66 kV or above, located at wind farm site.

13. Reactive Power Charges:

The drawl of reactive power shall be charged as per the GERC order, as amended from time to time.

14. Nodal Agency:

GEDA shall be the nodal agency for implementation of the Wind Power Policy – 2007. Notwithstanding anything contained in this resolution, the provisions of the Electricity Act – 2003, and the GERC order, as issued from time to time, shall prevail, for the purpose of the implementation of this policy.

This issues with the concurrence of the Finance Department's note dated 27.12.2006 on this Department's file of even number. By order and in the name of the Governor of Gujarat.

sd/-

(Bipin Patel)

Under Secretary to the Government of Gujarat
Energy and Petrochemicals Department

Copy to :

- The Principal Sec. to HE the Governor of Gujarat, Raj Bhavan, G'nagar (By Letter)
- The Principal Secretary to the Hon. CM, Sachivalaya, G'nagar
- The PS to Hon. MoS (EP&F), Sachivalaya, G'nagar.
- The PPS to the Chief Secretary, Sachivalaya , G'nagar
- The Additional Chief Secretary, Finance Department, Sachivalaya,G'nagar.
- The Principal Secretary, Revenue Department, Sachivalaya, G'nagar.
- The Principal Secretary, I&MD, Sachivalaya, G'nagar.
- The Secretary, Gujarat Electricity Regulatory Commission, Ahmedabad.
- The Industries Commissioner, Udyog Bhavan, G'nagar.
- All the District Collectors, Gujarat State.
- The Chairman, GUVNL, Vadodara
- The Chairman, GEDA, G'nagar
- The Chief Electrical Inspector & Collector of Elect. Duty, Udyog Bhavan, G'nagar.
- The Director, GEDA, G'nagar.
- The Managing Director, GUVNL/ GETCO/GSECL/ All DISCOMS
- The GM (Commerce), GUVNL, Vadodara.
- The Managing Director, Torrent Power Ltd. Ahmedabad.
- All Departments of Sachivalaya, G'nagar.
- All Branches of EPD
- The Select file
- The Personal file

Potential Sites for Wind Power Projects in Gujarat

Sl. No.	Station	District	Latitude		Longitude		Altitude	Mean Annual Wind speed at 20/25 m	Mean Annual Wind Power Density at 20/25 m	Wind Power Density at 50 m
			N		E					
			Deg	Min	Deg	Min	(m)	(m/s)	(W/m ²)	(W/m ²)
			1	Jafrabad	Amreli	20	54	71	24	20
2	Jasapar	Amreli	21	21	71	6	230	4.78	104	214
3	Nani Kundal	Bhavnagar	21	55	71	28	154	5.56	163	278
4	Rojmal - 2	Bhavnagar	-	-	-	-	-	5.11	129	317
5	Sanodar	Bhavnagar	21	33	72	6	230	6.24	197	373
6	Amrapar (Seth)	Jamnagar	21	44	70	3	160	5.33	151	221
7	Butavadar	Jamnagar	21	57	70	11	120	4.56	98	240
8	Gala	Jamnagar	22	15	70	7	124	5.49	175	254
9	Haripar	Jamnagar	22	16	69	38	40	5.57	160	210
10	Harshad	Jamnagar	21	50	69	22	12	5.56	164	239
11	Kalyanpur	Jamnagar	22	3	69	24	80	6.14	208	327
12	Lamba	Jamnagar	21	54	69	19	20	5.56	164	232
13	Navadra	Jamnagar	21	57	69	16	24	5.78	183	297
14	Navi Bander	Jamnagar	21	27	69	47	1	5.42	153	213
15	Okha	Jamnagar	22	27	69	3	2	5.39	150	260
16	Okhamadhi	Jamnagar	22	6	69	6	12	5.28	129	209
17	Suwarda	Jamnagar	22	23	70	7	90	5.61	166	243
18	Amrapar (Gir)	Junagarh	21	11	70	25	140	5.46	147	241
19	Bhandariya	Junagarh	22	4	69	41	80	5.42	162	208
20	Jamanvada	Junagarh	23	35	68	36	60	5.17	149	299
21	Adesar	Kachchh	23	33	70	57	41	4.33	93	307
22	Bayath	Kachchh	22	56	69	11	20	4.9	118	300
23	Kukma	Kachchh	23	10	69	40	220	5.33	150	239
24	Moti Sindholi	Kachchh	23	9	68	47	10	4.86	118	311
25	Mundra	Kachchh	22	47	69	43	2	5.42	168	303
26	Poladiya	Kachchh	23	4	69	13	150	5.72	177	278
27	Sinai	Kachchh	23	3	70	4	57	5.77	183	244
28	Surajbari	Kachchh	23	13	70	42	10	5.42	184	444
29	Dhank -1	Rajkot	21	47	70	6	180	6.78	312	414
30	Dhank -2	Rajkot	21	48	70	7	208	6.97	327	367
31	Godladhar	Rajkot	22	3	71	19	240	5.4	144	345
32	Kagavad	Rajkot	21	48	70	41	132	5.13	141	212
33	Khambada	Rajkot	21	48	71	8	180	4.86	126	204
34	Bamanbore	Surendranagar	22	26	71	3	200	5.64	171	243
35	Limbara	Surendranagar	22	32	70	59	160	5.31	166	227
36	Mahidad	Surendranagar	22	17	71	12	330	5.97	178	231
37	Ratabhe	Surendranagar	22	56	71	2	70	4.86	123	212

To,
Director ,
Gujarat Energy Development Agency,
4th Floor, Block no. 11/12, Udyogbhavan,
Gandhinagar

Subject :- Requisition for commissioning of windfarm

Dear Sir,

With reference to the subject cited above, it is to inform you that we have installed _____ MW capacity windfarm at Village _____ Dist. _____, on Government leased land / privately owned/leased land bearing Suvery No. _____. The windfarm comprises of _____ numbers of wind turbine generators of _____ make of _____ kW rating each.

The ID numbers of the WTGs are as follows:

Our windfarm is connected to the windfarm substation at _____, through 11 kV overhead transmission line as approved by the Electrical Inspector vide his letter dated _____ (copy enclosed) , for its charging.

We now intend to commission our windfarm on _____ (Date). We therefore request you to witness the commissioning of our windfarm, on _____, during which our officer shall also remain present.

Thanking you.

Yours faithfully,

(Name and Designation & Signature of the
Authorised signatory of the industrial undertaking)