



**CLEAN DEVELOPMENT MECHANISM
FORM FOR SUBMISSION OF BUNDLED SMALL SCALE PROJECT ACTIVITIES
(SSC-CDM-BUNDLE)**

SECTION A. General description of the Bundle

A.1. Title of the Bundle:

8.75 MW Wind Power Project in Gujarat

A.2. Version and Date :

**Version: 1.1
07/12/2006**

A.3. Description of the Bundle and the subbundles :

This is a wind energy project of capacity 8.75 MW comprising 7 Wind Turbine Generators (WTGs) of 1.25MW each. The WTG's are located at sites Bhogat, Lamba and Mandvi. The project activity is executed in a phased manner during March 2003 to March 2005. Since project promoter do not have any experience in wind power generation and also finding good wind farm sites in any one year is very difficult, thereby Investments were done in phased manner. Moreover wind power projects entail higher capital cost/MW capacity as compared to other options and also have lower PLF thus leading to much higher cost/unit power generation. Thus arranging finance for 8.75 MW was difficult to arrange at any given point in time. The project conceptualizes wheeling of electricity, produced at wind energy farms, using state grid to the investing company for its internal use.

Rolex Rings Private Limited, referred to as RRPL hereafter, has business interests in the area of auto-component manufacturing. RRPL generates electrical power using wind energy at their wind farms in Gujarat. Power is wheeled to the forging and component manufacturing plant at Rajkot, Gujarat. Gujarat State Electricity Board grid (part of Western Regional (WR) grid in India) network is used for transmission of power to RRPL plant.

A.4. Project participants:

Name of Party involved (*) (host) indicates a host Party)	Private and/or public entity(ies) project participants (*) (as applicable)	Kindly indicate if the Party involved wishes to be considered as project participant (Yes/No)
Government of India (Host Party)	Rolex Rings Private Limited (RRPL)	No



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SECTION B. Technical description of the Bundle:**B.1. Location of the Bundle:****B.1.1. Host Party(ies):**

India

B.1.2. Region/State/Province etc.:

The proposed project sites are located in the State of Gujarat.

B.1.3. City/Town/Community etc:

Capacity	Unique Id	Location
1.25MW	B1	Bhogat
1.25MW	B2	Bhogat
1.25MW	B4	Bhogat
1.25MW	W06	Lamba
1.25MW	V09	Vanku
1.25MW	V10	Vanku
1.25MW	V18	Vanku

B.1.4. Details of physical location, including information allowing the unique identification of this Bundle:

Site location	District	Latitude/Longitude
Bhogat	Jamnagar	70.07 E 22.27 N
Lamba	Jamnagar	70.07 E 22.27 N
Vanku	Kutch	68.32 E 22.51 N

B.2. Type(s), category(ies) and technology/(ies)/Measure/(s) of the bundle:

Project Type: I–Renewable Energy Projects

Project Category: I.D. ‘Grid connected renewable electricity generation’ version 9/ Scope 1, 28 July 2006

The project is a Renewable Energy project with maximum output capacity of 8.75 MW (<15 MW) this comes under the Appendix B of the simplified modalities & procedures for small-scale CDM-project activities. No transfers of technology from annex-1 countries take place.



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A brief description of technology of WTGs is enclosed as Annex-3

B.3 Estimated amount of emission reductions over the chosen crediting period:

Emission Reduction Estimation	
Year	Annual Estimation of emission reduction in tonnes of CO ₂ e
Jan 07 - Jan 08*	15342
Jan 08 - Jan 09*	15342
Jan 09 - Jan 10*	15342
Jan 10 - Jan 11*	15342
Jan 11 - Jan 12*	15342
Jan 12 - Jan 13*	15342
Jan 13 - Jan 14*	15342
Jan 14 - Jan 15*	15342
Jan 15 - Jan 16*	15342
Jan 16 - Jan 17*	15342
Total estimated reductions (tonnes of CO ₂ e)	153426 ¹
Total number of crediting years	10 years (fixed crediting period)
Annual average over the crediting period of estimated reductions (tonnes of CO ₂ e)	15342

* 15th Jan to 14th Jan in the following year

SECTION C. Duration of the project activity / Crediting period:
C.1. Duration of the Bundle:
C.1.1. Starting date of the Bundle:

27/03/2003

C.2. Choice of crediting period and related information:

Fixed Crediting Period

C.2.1. Renewable crediting period:

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NA

¹ Estimated based on CGM for year 2004-05, actual shall be done on after calculating CGM of year in which generation occurs.

**C.2.1.1. Starting date of the first crediting period:**

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B.2.1.2. Length of the first crediting period:

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C.2.2. Fixed crediting period:**C.2.2.1. Starting date:**

15/01/2007

C.2.2.2. Length:

10 years

SECTION D. Application of a monitoring methodology:

This comes under the Appendix B of the simplified modalities & procedures for small-scale CDM-project activities under Category ID – *Grid connected renewable electricity generation*.

The monitoring plan to be followed at all the locations is identical as described in section D of SSC-PDD. The estimation of grid emission factor is same for all WTGs as all the locations are in Western Region grid.