



RAJASTHAN RENEWABLE ENERGY CORPORATION LIMITED

(Government of Rajasthan Undertaking)

E-166, Yudhisthir Marg, C-Scheme, Jaipur

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Application form for submitting proposals under the **“policy for promoting generation of electricity through** **non-conventional energy sources – 2004”**

(Issued vide Energy Deptt. letter no. F.20 (4) Energy/2004 dated 25.10.2004 and amended vide letters of even nos. dated 10.3.2005, 16.7.05, 18.8.05, 24.2.06 and 16.3.06)

1 COMPANY DETAILS

- i Name of the applicant / organization :
- ii State whether the applicant / organization is a
- Company registered under Indian Companies Act 1956; :
 - Co-operative Society; :
 - Any other corporate entity. :
- iii **Address:**
- (i) Office**
- Telephone No. :
 - Fax No. :
 - Email Address :
- (ii) Name & Address of the authorised person**
- Name :
 - Address :
 - Telephone No. :
 - Fax No. :
- iv In case of any other corporate entity, give details of partners / directors/ owners :
- v Whether income tax assessee, if yes, please state the year up to which assessment made (copies of assessment for last three years to be enclosed) :

- vi If answer to 5 is No, state whether the promoter is an assessee. :
- vii Income tax permanent A/c. No. :
- viii Present activity / business carried on by the applicant/organisation. :
- ix Give details of the turn over of the organization in last three years (copies of the profit and loss account and Balance Sheet / Annual Report to be enclosed). :
- x Do you propose to set up the plant in the name of existing company or propose some sister concern. :

2 PROPOSED POWER PROJECT

- i
 - Proposed Gross Capacity (MW) :
 - Auxiliary Consumption (MW) :
 - Net Capacity (MW) :
 - Plant Load Factor (PLF) % :
 - Net expected power generation per annum : lacs kWh
- ii
 - 1. Location of proposed site with details :
 - 2. Land details of the power plant site :
 - Name of village :
 - Khasra Nos. :
 - Area of land from each Khasra No. :
 - Land map with clear markings of land required for the project. :
 - Is it Govt. land or Pvt. land :
- iii Nearest Railway Station :
- iv Name of the manufacturer with address for supply, installation and commissioning of the power generation system, if identified. :
- v Financing Arrangement :
 - Own funds (promoters) :
 - IREDA/ PFC/REC/ Financial Institution / Commercial Banks :
 - Equity :

- Others :
- vi Time frame and pert chart for major activities. :
- Acquisition of land :
- Signing of PPA :
- Expected financial closure :
- Date of commissioning / synchronization :
- Proposed Commercial Operation Date (COD) :
- vii Power Plant proposed to be set up for :
- Captive use :
- Sale to RVPN/DISCOM on approved rate :
- Third party sale at mutually agreeable rates :
on payment of approved wheeling charges to
RVPN
- viii Please tick the Non Conventional Source of Energy :
on which the project is proposed to be based :
- Biomass :
- MSW/Industrial waste :
- SPV / SPV - Wind Hybrid :
- Wind :
- Mini-Small Hydel :
- Biogas :

3 DETAILS of PROPOSED POWER PROJECTS

- a) **For Biomass based Power Plants:** :
1. Biomass proposed to be used : Name & type of Biomass
(i.e. Rice husk, mustard stalk, wood chips, saw
dust, coconut shell, groundnut husk, wood waste
fire wood industrial waste of paper mills plywood
industry etc. 1. –
2. –
 2. Name of Technology :
(Pyrolysis, Gasification, Incineration/
Palletisation/ Briquetting, through gas/ Steam
turbine, duel fuel engine/gas engine route or
combination thereof / Bagasse / Biomass
Cogeneration)
 3. Required quantity of Biomass : MT per year
 4. Available quantity of Biomass : MT per year
 - From own sources : MT per year

- From other sources : MT per year
- 5. Calorific value of proposed biomass to be used : kcal/kg
- 6. Cost of biomass to be used : Rs. per tone
- 7. Is the biomass available for 10 years : Yes/No.....

b) MSW/Industrial Waste Plants:

1. Type of waste selected : MSW/Liquid waste/mix of waste
2. Name of Technology :
3. Required quantity of MSW /Industrial waste :MT per year
4. Quantity of wastes available :
 - From own sources :MT per year
 - From other sources :MT per year
5. Characteristics of waste (in separate statement) :
6. Cost of MSW / Industrial waste :Rs./Tonne
7. Whether waste is available for 10 years : Yes/No

c) Solar Photovoltaic Power Plant (SPV)/ SPV- Wind Hybrid

1. No. of Solar Modules proposed :
2. Capacity of PCU :
3. Battery bank proposed : Yes/ No
4. If yes, its capacity :
5. Duration and time of day during which supply of power is proposed :

d) Wind Farms:

1. Total capacity of the proposed Wind Farm, along with Micro siting plan as per C-WET guidelines. Type test approval and Power Curve of WEG proposed should also be enclosed. :
2. No. of Wind Energy Generators (with capacities) proposed to be installed along with individual capacity of generators (Technical Parameters of WEG should be indicated). :
3. Location at which Wind Farm is proposed along with category of Land i.e. Revenue/ Forest, Khasra wise area and Jama bandi map (only out of eight potential locations authenticated by CWET) :
4. Wind assessment, Feasibility report, DPR of proposed site is enclosed. (Applications not

accompanied with Feasibility report will not be entertained). Feasibility report should include Site details, Wind assessment data, Basis/Source of Wind Data, Estimated generation on the basis of Power Curve of WEG proposed and cash flow analysis including profitability statement, assumptions made etc.

5. Please furnish the details of previous experience :
in the field of wind power generation and or
manufacturing of WEGs, or experience in
generation of grid quality power.

e) Hydel Power Plant

1. Capacity of proposed Mini/Micro/Small & :
Estimated annual generation
2. Design head & discharge :
3. No. of turbines & their capacity :
4. Type of turbine :
5. Generation voltage :
6. Location of proposed plant:
 - Dam/Canal/River :
 - Village :
 - District :
7. Whether feasibility report of proposed site is :
enclosed (without feasibility report application will
not be entertained). Format is enclosed

f) Biogas Plants:

1. Type of fuel used :
(i.e. cattle dung / digested slurry / Kitchen waste /
Agro waste etc.)
2. Required quantity of bio-fuel : MT per year
3. Available quantity of bio-fuel
 - From Own Source : MT per year
 - From Other Source : MT per year
4. Cost of bio-fuel to be used :Rs./MT
5. Is the bio-fuel available for 10 years : Yes/No

4 ELECTRICAL DETAILS

- i Transmission of Power & Evacuation :
plan/interconnection facility for the proposed plan

- ii Interfacing scheme proposed :
- iii For captive power plant
 - 1. Present consumption of Electricity
 - 1. From Vidyut Vitaran Nigam :
 - 2. Captive Generation :
 - 2. Connected load of the company :
 - 3. HT/LT consumer :
 - 4. Nearest Sub-station of RVPN/VVN and distance :
from the proposed power plant :
 - 5. Voltage ratio of the Sub-station :

5 FINANCIAL DETAILS

- i Estimated cost of the project proposed :
- ii Cost of power generation per unit (Please enclose : Rs./kWh
Cash Flow Chart also).
- iii How do you propose to raise the required finance for :
the project:
 - Equity share capital :
 - Promoters contribution :
 - Term Loans :
- iv Do you envisage any foreign collaboration, if so :
please furnish the details
- v Details of the application/processing fee remitted: (@ :
Rs 50000/- per MW)
 - Amount Rs. :
 - Demand Draft/Cheque No. :
 - Date :
- vi Detail of Security amount remitted (as per clause 15.2 :
of Policy 2004)-
 - For Wind energy projects
 - In Jaisalmer district : Rs. 10 lac per MW :
 - In other districts : Rs. 5.0 lac per MW :
 - For Biomass and Solar energy projects: Rs. :
1.0 lac per MW
 - Amount Rs. :
 - Demand Draft/Cheque No. :
 - Date :
- vii Detail of fee for creation of facility for receiving station :
(as per clause 5.1.2 of Policy 2004):

- Amount Rs. :
 - Demand Draft/Cheque No. :
 - Date :
- viii Detail of fee for Transmission and Distribution Network Augmentation (as per clause 5.1.4 of Policy 2004):
- Rs. 15.00 lac / MW for wind energy power plants.
 - Rs. 5.00 lac / MW for biomass power projects as well as for wind energy power projects up to 20 MW capacity situated outside Jaisalmer- Barmer-Jodhpur region and not utilizing the EHV network of Jaisalmer-Barmer-Jodhpur and Jaisalmer-Phalodi-Jodhpur
- a. Amount Rs. :
 - b. Demand Draft/Cheque No. :
 - c. Date :
- ix Can you help access bilateral grants/ concessional loans from GoR to provide soft loan for your project (if yes, give details of the agency and preliminary terms and conditions) :

6 ANY OTHER RELEVANT INFORMATION

7 DECLARATION

- i) I/We certify that all information furnished is true to the best of my/our knowledge
- ii) I/We agree that Govt. of Rajasthan is the final authority to allot us the project.
- iii) I/We shall not have any dispute with GoR/RREC for non-allotment of the project.
- iv) I/We shall not have any dispute with GoR/RREC for non-allotment of the project.
- v) I/We agree to comply with the terms and conditions of Policy for Promoting Generation of Electricity through Non-conventional Energy Sources 2004

Signature of the authorised Signatory
of the Organisation with Seal

Place:

Date:

8 DOCUMENTS ENCLOSED

A certified copy of the **Memorandum & Article of Association** of the Company.
 Certified copy of the registration certificate.
 Certified copy of the partnership deed.
 Certified copy of the Authority conferring powers on the person(s) who are competent to execute the MOU/the agreement with GoR/RREC/RVPM /DISCOM
 Detailed Project Report alongwith documents & attachments and the interfacing scheme etc. in 3 copies.
 Processing fee in the form of D.D. No. dated payable to the Managing Director, RREC, at Jaipur for Rs.
 Annual Report of the Company for last three years.

Receipt of Application

Received an application to set up MW.....
 based power plant at
 from
 M/s.
 along with processing fee of Rs. (Rs. 50,000/- per MW), paid through
 D.D. No. dated
 Authorized signatory
 RREC, Jaipur

Format for preparation of pre-feasibility report **Mini / Micro / Small Hydel Power Plant**

- 1 Location:
 - Name of Dam/ Canal / River
 - Nearest village
 - Taluk and District
- 2 Details of the proposed site:
 - In case of canal based project: Bed level, bed width, full supply level (FSL), side slopes, longitudinal slope, top of embankment, design discharge,
 - In case of dam based project: FSL, type of existing dam, design discharge, design head and bye-pass arrangements.
 - In case of stream based project: Maximum and minimum flood level observed, type of diversion weir proposed, design discharge, design head and bye-pass arrangements.

3	Intake structure	<ul style="list-style-type: none"> : Length Top width Bottom level Number of penstocks Diameter of penstocks Size of gates
4	Power house	<ul style="list-style-type: none"> : Type of power house Dimension of power house Number of units proposed to install in the power house Generator floor level Turbine floor level
5	Generating units	<ul style="list-style-type: none"> : Number and capacity of generating units Unit type Generator capacity
6	Tailrace channel	<ul style="list-style-type: none"> : Length of tailrace Bed level Bed width Side slope Type of lining Longitudinal slope
7	Land details	<ul style="list-style-type: none"> : Ownership of the land and its Geology
8	Power evacuation	<ul style="list-style-type: none"> : Near sub-station Distance from the project site Type of transmission line proposed Load distribution study
9	Costs aspects	<ul style="list-style-type: none"> : Estimates project cost Cost estimate of civil electromechanical equipment Total project cost with interest during construction Cost per kW of installed capacity
10	Power generation	<ul style="list-style-type: none"> : Annual energy generation (gross and net energy) Cost of energy generation table

		Energy generation table
		Plant load factor
11	Cash flow analysis	: Cash flow statement
		Pay back period
12	Time schedule for developing the project (enclose bar chart)	: Time for detailed site investigation and DPR preparation
		Time for preparation of tender documents and achieving financial closure
		Time required for project execution
13	Photographs	: Two colour photographs of the site
14	Maps	: Index map
		Location map
		Layout plan