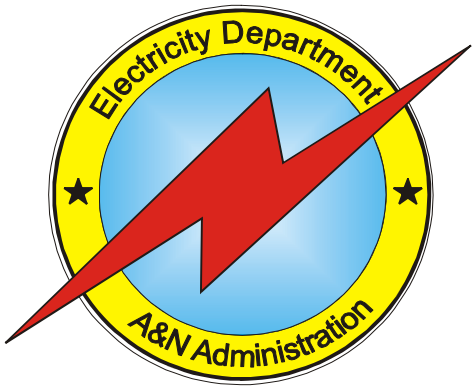
GUIDELINES

FOR

POWER GENERATION

THROUGH

NEW AND RENEWABLE ENERGY SOURCES IN A&N ISLANDS



Andaman & Nicobar Administration

Electricity Department

Port Blair

December, 2008

C O N T E N T S

Guidelines for Power Generation through New & Renewable Energy Sources by Private Entrepreneurs:

The following are the guidelines for power generation through New & Renewable Energy Sources by Private Entrepreneurs in A&N Islands:

1. **Title & Enforcement:**

   1. These guidelines will be known as "Guidelines for Promoting Generation of Electricity through New & Renewable Sources of Energy in A&N Islands".

   2. All Acts, Rules and Regulations, Tariff Policy, Guidelines of GOI, A&N Administration, Electricity Regulatory Commission and other Government authorities will be applicable and followed.

2. **Objectives and Strategies:**

   The main objective of the policy is to:

   (i) Reduce dependence on conventional sources of Power Generation especially HSD oil.

   (ii) Protection of the Environment.

   (iii) Generation of employment.

   (iv) Encourage entrepreneurial investment in NRSE.

3(A) **Electricity Act, 2003:**

Determination of tariff

Section 62(1): The Appropriate Commission shall determine the tariff in accordance with the provisions of this Act for –

(a) Supply of electricity by a generating company to a distribution licensee:

Provided that the Appropriate Commission may, in case of shortage of supply of electricity, fix the minimum and maximum ceiling of tariff for sale or purchase of electricity in pursuance of an agreement, entered into between a generating company and a licensee or between licensees, for a period not exceeding one year to ensure reasonable prices of electricity.

Section 63: Determination of tariff by bidding process:
Notwithstanding anything contained in section 62, the Appropriate Commission shall adopt the tariff if such tariff has been determined through transparent process of bidding in accordance with the guidelines issued by the Central Government.

Section 86.(1): The State Commission shall discharge the following functions:

(e): promote cogeneration and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity from such sources, a percentage of the total consumption of electricity in the area of a distribution licensee;

(B) **National Electricity Policy 2005:**

The National Electricity Policy 2005 stipulates that progressively the share of electricity from non-conventional sources would need to be increased; such purchase by distribution companies shall be through competitive bidding process; considering the fact that it will take some time before non-conventional technologies compete, in terms of cost, with conventional sources, the commission may determine an appropriate deferential in prices to promote these technologies.

(C) **Tariff Policy 2006**:

The Tariff Policy announced in January, 2006 has the following provisions:

- Pursuant to provisions of section 86 (1) (e) of the Act, the Appropriate Commission shall fix a minimum percentage for purchase of energy from such sources taking into account availability of such resources in the region and its impact on retail tariffs. Such percentages for purchase of energy should be made applicable for the tariffs to be determined by the SERCs.
- It will take some time before non-conventional technologies can compete with conventional sources in terms of cost of electricity. Therefore, procurement by distribution companies shall be done at preferential tariffs determined by the Appropriate Commission.
- Such procurement by Distribution Licensees for future requirements shall be done, as far as possible, through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources. In the long-term, these technologies would need to compete with other sources in terms of full costs.

4(a) **Introduction**

Scattered in the heart of Bay of Bengal lies a cluster of islands, known as Andaman & Nicobar Islands(A&N Islands). These islands form a long broken chain lies between 92^{O} to 94^{O} East Longitude and 6^{O} to 14^{O} North Latitude. The location of these islands are strategically important on the eastern side of India from the view point of defence. With the generous assistance of Central Government these islands have take a large stride

on all-round developments in last few decades, which resulted in the tempo of socio- economic transformation. To achieve the above goal, the energy input will be a vital factor.

(b) **Andaman and Nicobar Islands :**

The A&N Islands have a total area of 8249 sq.kms. out of which the forest cover is about 7589 sq.kms.(92%). These islands enjoy a thick forest, rich environment, abundant sea wealth, which boost a high tourist attraction. These islands are divided in three district viz. Andaman, Nicobar and North & Middle Andaman. The seat of the Administration is at Port Blair (South Andaman) in which 14.14 sq.kms. area is under the jurisdiction of Port Blair Municipal Council.

(c) **Past History On Power :**

Prior to Independence a small steam driven reciprocating DG generator of 100 KW capacity was installed by the British at Ross Island in 1926. Direct current DG Sets of 100 KW capacity was installed at Port Blair during 1929. After independence two steam turbine generating sets of 550 KW each were established during 1951 in the Power House at Chatham Island. The boilers were operated on wood fuel and saw dust, which were the waste products of Chatham Saw Mill and later on switched over to Mangrove Wood which was used as fuel. This was the start of the alternating current power supply at Port Blair.

Due to the geographical and topographical peculiarities of these islands, including separation by sea over great distances, there is no single power grid for all the electrified islands and instead a power house caters

independently to the power requirements of an area/island.

The Electricity Department is operating & maintaining power generation, transmission & distribution system and networks in these islands for providing electric power supply to general public and also implements various schemes under Plan and Non-Plan Programmes for augmentation of the diesel generating capacity and establishment of new Power Houses and T&D systems. This department also functions as a Nodal Agency for implementing Renewable Energy Programme of the Ministry of New & Renewable Energy Sources. The Electricity Department is headed by a Superintending Engineer and assisted by 7 Executive Engineers and 38 Assistant Engineers. The present total installed capacity is around 68.50 MW with a peak demand of 37 MW. The installed capacity of the Power Houses ranges between 6 KW to 12500 KW. One Hydro Electric Power Station having a capacity of 5.25 MW is functioning at Kalpong River, North Andaman. A 20 MW Diesel Power Station at Bambooflat, South Andaman is being operated by M/s SPCL on PPA basis. South, Middle & North Andaman are well connected by VHF communication for better monitoring & fault rectification for improved services to the consumers.

(d) **Power Scenario in A&N Islands:**

(i) **Sub-Sector : Power**

The salient features about development of electric power supply in these islands during last 57 years is tabulated below :-

Year	Power Houses (Nos.)	Total Capacity (MW)	Generation (MU)	Per capita consumption (Kwh)
1951	1	1.1	0.5	16
1961	1	1.1	1.6	20
1971	10	3.0	4.3	27
1981	16	7.5	10.8	41
1991	32	15.7	51.9	113
2001	34	44.0	118.6	250
2006	34	66.90	183.70	309
2008	41	68.50	200.60	385

Power Generation in A & N Islands is largely through Diesel fuel, which accounts for 95% out of total generation, rest 5% being Hydel generation. In a diesel generation scenario the major cost of power generation is the fuel cost which works out to around 80% of the total cost. The illustrations given below give a detailing of the cost of HSD at various Islands and the specific fuel consumption of the various powers plants of a particular year. There are 41 Diesel Power Houses at different locations in these islands having DG capacity ranging from 6 KW to 5000 KW (including 20 MW IPP) and one Hydro Power Station having 5.25 MW capacity at Kalpong. The aggregate installed capacity is 68.50 MW (2007-08). The details of power scenario in major islands are tabulated below:

POWER SUPPLY SYSTEM–GENERATION CAPACITY IN MAJOR ISLANDS:

Sl. No.	Name of Island	Installed Capacity (MW)	Consumer (Nos.)	Annual Generation (MU)	Peak Demand (KW)
1.	North Andaman	6.86	7673	9.79	2461
2.	Middle Andaman	6.36	12931	16.40	2699
(a)	Long Island	0.39	478	0.50	120
(b)	Baratang	0.38	1147	0.39	210

3.	South Andaman	41.28	50482	151.57	27560
(a)	Neil Island	0.56	637	1.01	270
(b)	Havelock	1.33	1162	2.58	444
4.	Little Andaman	4.20	3335	6.50	1590
5.	Car Nicobar	2.00	579	4.95	1447
6.	Nancowry Group of Islands	2.10	1109	3.54	686
7.	Great Nicobar	3.00	1463	3.67	691
Total		**68.46**	**80996**	**200.90**	**38178**

Consumers:

The category wise unit consumption and the number of consumer of A&N Islands are tabulated as below:

Sl.No.	Category	Nos.	Consumer (%)	Consumption (%)
(a)	Domestic	65282	80.59	46
(b)	Non-Domestic	13823	17.06	25
(c)	Industrial	450	0.60	5
(d)	Other & Bulk Supply	1095	1.35	18
	Street Lights	346	0.40	6
	Grand Total :	**80996**	**100.00**	**100**

Round the clock power supply through DG Sets is provided to population in the islands at South Andaman, Middle Andaman, Long Island, Neil Island, Havelock, Little Andaman, Car Nicobar, Katchal, Kamorta & Campbell Bay, which account for about 85% of total population. At other locations covering 10% population electric power supply is available for 5 to 16 hrs. per day through small DG Power Houses & Solar Power Plants & Home Lighting

systems. 4% population need not to be electrified due to Encroached Forest Area as per the directives of Supreme Court of India. Remaining 1% population is programmed for electrification by March, 2009.

As per survey conducted by the National Sample Survey Organization, Govt. of India between July, 2002 & December, 2002 on availability of various infrastructure/resources, it is reported that 95% of villages in A&N Islands have accessibility to electricity against an all India average of only 78%.

The present per capita consumption is around 385 KWh as against a National Average of 598 KWh; due to very less industrial requirement in the islands.

(ii) **Sub-Sector : NRSE**

The Govt. of India emphasizes the need to maximize the utilization of New & Renewable Energy Sources, specially in remote & inaccessible areas, for meeting the basic energy requirement of lighting, cooking & heating etc. Keeping in view the govt. policy to exploit/utilize more and more new & renewable sources of energy, the Administration is implementing scheme under New & Renewable Energy to utilise the potential of Biomass, Wind, Solar & Mini/Micro Hydro and Ocean Energy available in the islands.

(e) <u>Renewable Sources of Energy Systems which can be established in A&N islands</u>:

(i) **<u>Biomass Based Systems</u>**

The Tata Energy Research Institute, New Delhi estimated during 1987 that 5 MW power could be developed by Biomass technology. Another study was conducted by Karnataka State Council of Science & Technology during 1998 which indicated that around 1200 KW of

power potential could be harvested by exploiting available biomass at different islands.

As per the study conducted during October, 2007 by Institute for Energy Studies, Anna University, Chennai, the estimated potential available is 5 MW, 2 MW & 1.5 MW of Agro Fuel Based Power Generation at South Andaman, Little Andaman and Car Nicobar respectively.

It is proposed to establish such feasible Power Generation systems at different islands.

(ii) **Solar Photo Voltaic Systems (SPV)**

These islands are in moderate solar intensity zone due to long periods of rain and cloud cover. Two grid connected Solar Power Plant of 50 KWp capacity at Neil Island and Havelock were established through M/s BHEL, Bangalore during 2002 & 2004 & are presently functioning. More such systems could be established at different islands.

(iii) **OTEC:**

Ocean Thermal Energy Conversion system utilizes the heated surface water and cold water from a depth of around 1000 Mtrs. in the Tropical Ocean for driving special turbines for generation of electric power. The Ocean Energy Centre of IIT, Chennai had conducted a feasibility study during 1984 for establishing of OTEC System in these islands & had identified three very attractive locations for shore/off shore based plants, which could be harnessed. The OTEC plant, in addition to providing electric power, would also be source of Aqua Culture & Refrigeration.

Department of Ocean Development, New Delhi was also requested to explore the possibility of establishing a suitable capacity OTEC plant in these islands. It is understood that DOD is establishing a 1 MW OTEC plant off shore Tamilnadu. An OTEC plant could be established in these islands, even as a R&D scheme, which will also supplement to diesel generation in these islands. The complete power requirement of these islands is met by diesel generators. In long run OTEC could be one of the substantial and renewable non-ending source of electric power without any environmental impact for these islands.

(iv) **Waves:**

The MNES was considering establishing a 1 MW Wave Plant at Mus Break Water, Car Nicobar, but no decision could be taken as yet, as this would involve shifting of heavy equipments & accessories. M/s Sea power, Sweeden had also shown interest in establishing 1 MW floating wave power vessel and this matter has been referred to the MNES, New Delhi.

(v) **Tidal:**

The CEA had conducted a preliminary study of various locations in these islands during 1992. The report indicated that Tidal Power generation would be feasible at some locations but may not be commercially viable with reference to the cost of diesel.

(vi) **Wind Energy Systems:**

For assessing the wind energy potential, Indian Institute of Tropical Meteorology, Bangalore had established Wind Masts at different

locations in the North Andaman, Middle Andaman, South Andaman, Little Andaman, Car Nicobar, Teressa & Kamorta Island. After analysis of Wind potential for 1 to 1½ years it was felt that only one location namely Keating Point, Mus, Car Nicobar is having the required average annual wind speed for installation of Wind Electric Generators. Study of wind energy potential at some other locations is going on. It is proposed to establish Grid connected Wind Electric generators at suitable locations.

(vii) **Hydro Systems:**

5.25 MW Kalpong Hydro Electric Project at Kalpong River, North Andaman was established by NHPC during September, 2001, which has generated 51.50 MU energy till April, 2008, NHPC has prepared feasibility reports for establishment of Mini/Micro hydel systems at following locations:

(i) Kalpong Down Stream, North Andaman	-	500 KW
(ii) Korang Nallah – Middle Andaman	-	210 KW
(iii) Rangat Nallah, Middle Andaman	-	180 KW
(iv) Panchavati Nallah – Middle Andaman	-	120 KW
(v) Vasundhara Nallah – South Andaman	-	10 KW
(vi)Kamsarat Nallah – South Andaman	-	10 KW
(vii)Badakhari, Rutland – South Andaman	-	5 KW
(viii)Krishna Nallah – Little Andaman	-	20 KW

5. **Eligible Developers/Producers:**

Any Registered Companies, Corporations and Co-operative or Registered Society desirous of installing systems and generating electricity from New & Renewable Energy Sources such as Mini/Micro Hydro, Solar Photo

Voltaic, Solar Thermal, Biomass, Bagasse, Wind, Co-generation, Municipal and Industrial Waste, Biogas & Ocean will be considered by the Administration for setting up such systems & projects, if in the opinion of the Administration the developer is found eligible, sound & capable on the following criteria.

1. Technical soundness of the pre-feasibility study and investigation.
2. Financial solvency and technical expertise.
3. Managerial experience in the relevant field.

6. **Availability of Land:**

Required land will be arranged by Power producer/developer at his own cost. At some places available vacant govt. revenue land would be allotted to developers as per the requisite codal formalities,

7. **Availability of Water:**

Water required for Power Generation will have to be arranged by the developer at his own cost. At some places spare available water with the Admn. would be provided

8. **Interfacing with Grid and Metering:**

Grid interfacing required to connect the generating units will have to be established/constructed and maintained by the Developers/Producers, all at their own cost. Scheme for the proposed interconnecting lines to the nearest Transmission Lines, Sub-Stations/Power House Bus bars, will require the approval of competent authority and will be included in the DPR.

1. Interconnection lines and Sub-station are to be constructed and maintained by the Developers/Producers.
2. The main and check meters will be installed by the developer at the interconnection point of Transmission Line/Power house/Sub-Station after due testing & approval by the Standard Testing laboratory and concerned Electrical Inspector.
3. The required protective devices as approved by Electricity Department & Electrical Inspector and as per prudent practices, to be incorporated in the system by the developer.
4. The A&N Administration shall not be liable for any compensation for any damage or loss to the Developers equipment due to normal operating conditions in the Island. The developer shall provide required protection devices to safeguard his equipment against abnormal conditions during T&D line faults.

9. **Cost of Projects:**

The entire cost of project including transmission & interconnection system for evacuation of power to the Transmission Line, power house or Substation with all metering, protective instruments/devices shall be borne by the developer and will be a part of DPR.

10. **Price of power:**

Will be finalized through open competitive bidding as per the provisions of Acts, Rules and regulations with a cap as per the Joint Electricity Regulatory Commission guidelines for different types of Renewable sources of energy.

11. **Power Purchase Agreement (PPA):**

The purchase/sale of electricity by power producer to Electricity Department, A&N Administration will be governed by the PPA executed between the Electricity Department, A&N Administration and Developer/Power Producer and as per the decision of JERC after following the open competitive bidding process as provided in Acts, rules and policies. The PPA will be for a period of 10 years and thereafter extendable for further period of 5 years on mutual agreement.

12. **Maximum requirement of Renewable Power in various islands:**

The power producers can use the power generated for captive consumption or for sale to other bulk consumers/licencees including Electricity Department, A&N Administration.

The Electricity Department, A&N Administration will enter into PPA for a continuous power requirement in each island to match with the existing requirement & demand of the respective island to be decided by the Electricity Department, A&N Administration on case to case basis.

(a) The power produced by the Wind & Solar system shall generally not exceed 25% of total requirement of respective island and rating of existing DG Sets which will be decided by the Electricity Department, A&N Administration on case to case basis.

(b) In case of Hydro & Biomass based power generation atleast75% of the installed capacity would be available as continuous base

load supply to the Grid for which adequate capacity would be installed. During the peak load hours i.e. from 5.00 PM to 11.00 PM if there is any shortfall of the power supply (KWh) the power producer will be penalized twice the cost of purchase cost.

13. **Receiving Station:**

Interfacing arrangements such as transformers, panels, kiosks, protection, metering, HT lines from the points of generation to either power house or the Substation or a Tee – off from the existing transmission lines if feasible depending upon the capacity of the plant & the transmission line on case to case basis shall be developed and maintained by the Power Producer as per the specifications and requirements of the Electricity Department, A&N Administration and the entire cost for installation, Operation & Maintenance will be borne by the power producer .

14. **Transmission and interconnection Network Augmentation:**

If existing transmission facility/systems are not having adequate capacity a project developer will establish a separate interconnection facility/ system up to the Power House and substation being the receiving points and operate & maintain the same at his own cost.

Electricity Department, A&N Administration shall grant the inter-connection facility, wherever adequate power evacuation capacity is available, on case to case basis.

The power producer shall install metering device at the receiving station at his own cost & such metering devices must conform to standards of metering code.

The power producer shall install necessary current limiting devices and Thyristors & Capacitors of sufficient capacity in the generating equipment shall also be provided in the Wind Generator to ensure that the average power factor is maintained as per requirements of Receiving Station.

The power producer shall comply with all safety measures , standard engineering systems procedure etc. as applicable from time to time. The Administration will not be responsible for any damage to equipments and all necessary precautionary measures are to be taken by the power producers.

15. **Wheeling:**

Except in case of power sold to Electricity Department, A&N Administration the power producer shall pay wheeling charges which will be inclusive of the T & D losses to be decided by JERC.

16. **Settlement of Accounts:**

The accounts of all transaction between the power producer and the Electricity Department, A&N Administration regarding cost of power supplied/purchased shall be settled on monthly basis, on the basis of units of energy(KWh) supplied.

17. **Energy Billing:**

Energy billing shall be on the basis of total units supplied in a month on a single part tariff basis which would include both fixed and variable charges.

Single part tariff could be either levelised tariff for the period of PPA or initial tariff and annual escalation to be determined during competitive bidding in consultation with JERC.

18. **Qualifying Criteria for bidders:**

ELIGIBILITY CRITERIA:

1. Experience of having successfully completed works during the last five years:

   Three similar completed works costing not less than the amount equal to 40% of estimated cost of proposed project

   OR

   Two similar completed works costing not less than the amount equal to 60% of estimated cost of proposed project

   OR

   One similar completed work of aggregate cost not less than the amount equal to 80% of estimated cost of proposed project.

2. Registered Company would be preferred as project developers. Individual and partnership firms would not be eligible.

3. Details will be specified at the stage of issue of EOI/RFQ/RFP.

19. **Financial Capability**:

1. Turnover: Average Annual Financial turnover on establishment, operation and maintenance to be at least 50% of the estimated cost

during the last three consecutive financial years supported with I.T Clearances.

2. Details will be specified at the stage of issue of EOI/RFQ/RFP.

20. **Selection and Award of Projects:**

(i) The Electricity Department, A&N Administration will invite offers for various projects for development in private sector. The offers will be scrutinized an Steering committee & the decision of Secretary(Power), A&N Administration shall be final.

(ii) Interested developers may also, on their own, visit the respective areas for gaining first hand knowledge & assessing suitable sites/projects before submitting proposals.

(iii) The project developer will have to take effective steps to implement the project including incurring 10% expenditure of the total project cost within six months of approval/allotment of the project otherwise the agreement could be terminated and the project allotted to another developer.

(iv) Security Deposit: The developer shall deposit with Electricity Department, A&N Administration a requisite amount per MW as security deposit towards the completion of the project within the prescribed time frame.

The security deposit shall stand forfeited by Electricity Department, A&N Administration in the event of failure of the developer to adhere to the prescribed time schedule

21. **Constitution of Steering Committee:**

The Steering Committee of A&N Administration for scrutiny & according approvals/clearances to project is as under:

1. Secretary(Power), A&N Administration : Chairman
2. PCCF, Forest Department or his representative : Member
3. Secretary(Finance), A&N Administration : Member
4. Deputy Commissioner, District : Member
5. Chief Engineer, APWD : Member
6. Chief Executive Officer, Zilla Parishad : Member
7. Director, MNRE, New Delhi of respective field : Member
8. Suptdg. Engineer, Electricity Department : Member
9. Executive Engineer(NRSE), Electricity Department: Member(Secretary)

The Committee may co-opt other officials & experts as and when required for scrutiny & evaluation of different projects. The Committee will also oversee implementation of these Guidelines by the other Departments/Agencies.

22. **Approval/Clearances from Various Agencies:**

Approval/clearances from all authorities & agencies for Pollution Control, Airports, Revenue, Forest & Environment, Water etc. as per prevailing Acts, Rules and Regulations and Guidelines, shall be obtained by the Project developers. The A & N Administration will however, extend all possible assistance for obtaining such clearances.

23. **Procedure for Clearances/Approvals:**

Steering Committee for Approval/Clearances for NRSE Projects**:**

All necessary and applicable approvals/ clearances required for a project would be considered expeditiously in a time bound manner from the date of submission of complete application along with all details & requisite fee as per the requirement. These applications for all projects would be required to be submitted to the

concerned Authority/Department by the Project Developer with a copy to the Member Secretary of the aforesaid Steering Committee.

The Steering Committee will also persue the applications with the relevant department for their consideration and concerned department will convey their approval/clearance or comments, if any within the stipulated time period. Representative(s) of the concerned department/agencies will participate in the meetings of Steering Committee to elaborate their comments/ observations, if any, for consideration of the committee. The Steering Committee would take appropriate view for according approval/clearances within the stipulated period.

24. **Tender/Bid Documents**

A comprehensive tender document shall be developed for inviting bids listing out technical, Managerial and financial parameters of the potential eligible bidders, which would be finalised by the Electricity Department, A&N Administration. On the basis of bidding and evaluation parameters contained in the tender document, bids would be invited and evaluated by an expert technical committee appointed by Steering Committee, A&N Administration, on case to case basis.

25. **State Level Advisory Committee:**

A State Level Advisory Committee headed by Secretary (Power), A&N Administration will be constituted to monitor the progress, implementation and operation of projects generating electricity through non-conventional energy sources. The Advisory Committee will undertake review of the non-conventional energy guidelines and policies; and aid and advise the Electricity Department, A&N Administration regarding any changes necessary in the policy guidelines.

26. **Application Procedure:**

1. Eligible entrepreneurs, interested for setting up Power Projects based on NRSE with grid-interface, may submit EOI, Bids, Tender etc. as and when these are published in News Papers & A&N Administration website www.and.nic.in.

2. The Bids/Tenders will be evaluated by the Electricity Department, A&N Administration under the supervision & control of Steering Committee.

3. New and Renewable Sources of Energy Division, Electricity Department, A&N Administration will act as the Nodal Agency for the entire programme and function as the single window for promotion and facilitation of all projects.

4. In case of any doubts or difficulties in interpretation of any item of this Policy or implementation thereof, it shall be decided or resolved by the Electricity Department, A & N Administration.

-:-

Andaman & Nicobar Administration
Office of the Superintending Engineer
ELECTRICITY DEPARTMENT
Port Blair – 744 101
Phone No.(03192)232404
Fax No.(03192)233365
E-Mail : seelectricity@yahoo.co.in

No.EL/PL/1-39(c)/2008/4484 **DATE: 4/12/2008**

To

1. The Publicity Officer,
   Directorate of Information Publicity
   & Tourism, A&N Administration,
   Port Blair.
2. The Chief Editor,
   Daily Telegrams,
   South Point,
   Port Blair.
3. The Director General of Commercial
   Intelligence & Statistics, 1 Council
   House Street,
   Kolkata – 700 001.
4. The Advertisement Manager,
   Deccan Chronicle,
   36 Sarojini Devi Road,
   Opp. Hotel Bashvera
   Secunderabad – 500 003.
   Andhra Pradesh.

Sub:- Publication of notice for invitation of Expression of Interest (EOI) for three Biomass Based Power Plants in Andaman & Nicobar Islands – reg.

Sir,

Kindly arrange to publish the following notice for invitation of Expression of Interest (EoI) in the relevant columns of your esteemed daily for one day and the bills in triplicate along with paper cuttings may be sent to the Superintending Engineer, Electricity Department, Port Blair for payment.

Unique No.4378
Tender 015-2008-0037

No.EL/PL/1-39(c)/2008/4484 dt.4.12.2008
Andaman & Nicobar Administration
Office of the Superintending Engineer
Electricity Department
Vidyut Bhavan, Port Blair
-:-

Electricity Department, Andaman & Nicobar Islands invites Expression of Interest (EOI) for establishing, operation and maintenance of Biomass Based Power Generation system at South Andaman, Little Andaman and Car Nicobar in A&N Islands.

The existing electric power supply system in A&N Islands is through diesel generator sets. The Administration proposes to explore generation of electric power supply through various available resources of renewable energy in the Islands in terms of the policy of Govt. of India. As per the availability of surplus Biomass residues comprising of agriculture/coconut/areca nut/red palm and utilization of upto 25 percent of conventional fuel as per the Ministry of New & Renewable Energy guidelines, there appears potential for setting up of Biomass Based Power Generation system in various Islands as below:

(i) South Andaman - 5 MW
(ii) Little Andaman - 2 MW
(iii)Car Nicobar - 1.5 MW

Power generated is to be purchased by Electricity Department, A&N Islands, on tariff decided through open competitive bidding, as per provision of Electricity Act, Rules & Regulations, and approval by Joint Electricity Regulatory Commission for UTs, under a power purchase agreement with the Developer Company/Society.

The Expression of Interest is accordingly invited from registered Societies and Companies having background and experience in establishing and running Biomass Based Power Plant to plan, design, finance, construct, operate & maintain the proposed power plants of 2 MW capacity in Little Andaman, 5 MW capacity in South Andaman and 1.5 MW capacity in Car Nicobar Islands.

Information/Documents:
Following shall be required to be submitted by Intending Officers:

(i) Detailed information along with documents as regards applicants background, business activities and experience in the field of setting up and managing Biomass Based Power Plant.

(ii) Company Annual Reports, Audit reports for the last three years.

Selection Process:

Selection of the preferred bidder shall be on the basis of bidding in response to RFQ and RFP to be invited by the Electricity Department, A&N Administration separately.

Background Information:

Salient information is available in "Guidelines for power Generation through New and Renewable Energy Source in Andaman & Nicobar Islands" (December 2008), available on website www.and.nic.in

Copies of relevant portion of study report prepared by Institute for Energy Studies, Anna University in October, 2007 in respect of Little Andaman & Car Nicobar Islands can also be made available on payment of Rs.1000/- each.

Submission of Expression of Interest

Expression of Interest may be submitted in a sealed envelop superscribed EOI for Biomass Based Power Generation Plants in Andaman & Nicobar Islands, by 5.00 p.m on 12.1.2009 at the following address:

The Superintending Engineer,
Vidyut Bhawan,
Electricity Department,
Andaman & Nicobar Islands,
Port Blair – 744101.

The Electricity Department, A&N Administration reserves the right to accept or reject any or all EOIs without assigning any reason thereof.

Suptdg.Engineer

Yours faithfully,

Assistant Engineer(PL)

Copy to:-

1. Smti Gauri Singh, IAS, Joint Secretary, Ministry of New & Renewable Energy, w.r.t letter No.2/1/2004-P&C dt.8.10.2008 addressed to Chief Secretary, A&N Administration.
2. Dr. D.K.Khare, Director, Biomass Division, MNRE, Block No.14, CGO Complex, Lodi Road, New Delhi – 110 003 with a request to kindly put the above matter along with the "Guidelines for power generation through New & Renewable Energy Source in A&N Islands" (December, 2008) in MNRE website also. (By e-mail: dkkhare@nic.in)
3. The Executive Engineer(NRSE), Electricity Department, Prathrapur, for information & necessary action.
4. The Assistant Secretary(Power), A&N Administration, Port Blair, w.r.t 4-4(15)/2008-Power dt.4.12.2008.
5. The Sr. Accounts Officer(c), Electricity Department, Port Blair, for information.
6. The Assistant Engineer(Ele.), Andaman Electricity Department, Block-IB, Plot No.5, Sector-III, Salt Lake City, Kolkata along with one copies of EOI.
7. The Assistant Engineer(Ele.), Andaman Electricity Department, Block No.5, CPWD Complex, K.K.Nagar, Chennai-600 078 along with one copies of EOI.
8. The Junior Engineer(Ele.), C/o Deputy Resident Commissioner, A&N Administration, A&N Bhawan, Plot No.12, Chanakiyapuri, New Delhi-110021 along with one copies of EOI.

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