



FIRST ANNUAL REPORT

1998-1999

Centre for Wind Energy Technology

W-275, C-Sector, Third Avenue
Anna Nagar West Extension
Chennai - 600 101



Shri M. Kannappan, Hon'ble Union Minister of State (Independent Charge) for Non-Conventional Energy Sources and Shri Arcot N. Veerasamy, Hon'ble Minister for Health and Electricity, Government of Tamil Nadu dedicating C-WET at Chennai on 06.12.1999.



A Section of distinguished invitees at the dedication of C-WET at Chennai on 06.12.1999

CENTRE FOR WIND ENERGY TECHNOLOGY

(An Autonomous Institution of Government of India)

W-275, C-Sector, Third Avenue, Anna Nagar West Extension, Chennai - 600 101



FIRST ANNUAL REPORT 1998-1999

Contents	Page No.
General Information -----	2
Annual Report -----	3
Auditors Report -----	8
Balance Sheet -----	10
Income and Expenditure Account -----	11
Receipts and Payment Account -----	12
Schedules -----	14
Notice Calling for First Annual General Meeting -----	19

GENERAL INFORMATION

Chairman of the Governing Council and President of the Society

Shri Swaran Singh Boparai, K.C., from 21-03-1998 to 17-08-1998

Shri C.R. Kamalanathan, from 18-08-1998 to 04-05-1998

Shri N.N. Mookerjee, from 05-05-1999 to 10-09-2000

Secretary, Ministry of Non-Conventional Energy Source, Govt. of India, New Delhi

Executive Director and Member - Secretary of the Governing Council

Shri Ajit K. Gupta

Adviser & Head, Power Group,

Ministry of Non-Conventional Energy Source, Govt. of India, New Delhi.

Governing Council Members

Shri Rahul Sarin, FA, Ministry of Non-Conventional Energy Sources, New Delhi

Shri Lal Rawna Sailo, Secretary, Energy, Government of Tamil Nadu, Chennai

Shri T.L. Sankar, Principal, Administrative Staff College of India, Hyderabad

Dr. V. Bakthavatsalam, Managing Director, IREDA, New Delhi

Dr. Vasant Gawariker, Ex-Secretary, Department of Science and Technology, New Delhi

Shri P.S. Das, Director General, Bureau of Indian Standards, New Delhi

Dr. T.S. Prahlad, Director, National Aerospace Laboratory, Bangalore

Shri R.N. Srivastava, Chairman, Central Electricity Authority, New Delhi

Shri Anup Singh, Ex-vice Chancellor, Punjab Technical University

Auditors

M/s K. Gnananandulu, Co.,

Chartered Accountants

Chennai - 600 006.

Bankers

Canara Bank

Anna Nagar West Extension

Chennai - 600 101.

Registered Office :

W-275, C-Sector, Third Avenue,

Anna Nagar West Extension

Chennai - 600 101.

ANNUAL REPORT

Formation

- Formed as a Society in the name of "Centre for Wind Energy Technology" (C-WET) on 18th February 1998.
- Registered as a Society under Section 10 of the Tamilnadu Societies Registration Act, 1975 on 21st March 1998.
- C-WET is an Autonomous Institution of Ministry of Non-Conventional Energy Sources, Government of India.

Objectives

- To serve as the technical focal point for wind power development in India, for promoting and accelerating the pace of utilization of wind energy and support the growing wind power sector in the country.
- To develop and strengthen the facilities and capabilities, evolve strategies, promote, conduct, co-ordinate and support research and development programmes to achieve and maintain reliable and cost effective technology in wind power systems.
- To analyse and assess wind resources based on the data available from various sources and prepare wind energy density maps / wind atlas / reference wind data.
- To prepare and establish standards including guidelines, procedures, protocols for design, testing and certification of wind power systems, sub-systems and components, taking into consideration the Indian conditions and in line with internationally recommended practices and standards and update the same based on the feedback.
- To establish world class facilities, conduct and / or coordinating testing of complete wind power systems, sub-systems and components according to internationally accepted test procedures and criteria, whereby the total performance such as the power performance, power quality, noise level, dynamics, operation and safety systems are tested according to agreed protocols.
- To accord type approval/type certification which verifies conformity with safety related requirements as per standards, guidelines and other rules for design, operation and maintenance, as well as adequate documentation of quality issues such as power performance, noise, life expectancy and reliability.
- To monitor the field performance of wind power systems, sub-systems and components, effectively utilise this feedback for fulfillment of the above objectives and review of certification, establish and update the data bank on a continuous basis and serve as information centre for selective dissemination.

- To undertake Human Resource Development programmes for the personnel working in the wind energy sector.
- To promote commercial exploitation of know-how, know-why results and offer various consultancy services to the customers.
- To promote the development and commercialisation of any other wind energy systems including stand-alone systems.

Management

- The Secretary, Ministry of Non-Conventional Energy Sources, Government of India shall be ex-officio president of the Society, who shall also be ex-officio Chairman of Governing Council.
- The Members of the Society are appointed by Government of India.
- The affairs of the Society are managed, administered, directed and controlled, in accordance with the rules and regulations of the Society and orders/directives received from Government of India, by the Governing Council.
- The Governing Council consists of 12 Members:
 - Secretary, Ministry of Non-Conventional Energy Sources – Chairman.
 - Head, Power Group, Ministry of Non-Conventional Energy Sources – Member Secretary.
 - Financial Adviser, Ministry of Non-Conventional Energy Sources
 - Officials of the Central / State Governments and Undertakings to be nominated by the Government of India
 - Experts / Persons of Eminence to be nominated by the Government of India.

Governing Council Members as on 31st March 1999

- | | | | |
|----|--|---|----------|
| 1. | Shri C.R.Kamalanathan,
Secretary,
Ministry of Non-Conventional Energy Sources,
Government of India,
New Delhi – 110 003. | - | Chairman |
| 2. | Shri Lal Rawna Sailo,
Secretary,
Energy Department,
Government of Tamilnadu,
Chennai – 600 009. | - | Member |

3. Dr.T.S.Prahlad, - Member
Director,
National Aerospace Laboratory,
Bangalore – 560 017.
4. Shri P.S.Das, - Member
Director General,
Bureau of Indian Standards,
New Delhi – 110 002.
5. Shri R.N.Srivastava, - Member
Chairman,
Central Electricity Authority,
New Delhi – 110 066.
6. Shri Anup Singh, - Member
Vice Chancellor,
Punjab Technical University,
Jalandhar – 144 011.
7. Shri T.L.Sankar, - Member
Principal,
Administrative Staff College of India,
Hyderabad – 500 082.
8. Dr.Vasant Gowariker, - Member
1126-A, Sriram Apartments,
Shivaji Nagar,
Pune – 411 016.
9. Dr.V.Bakthavatsalam, - Member
Managing Director,
Indian Renewable Energy Development Agency,
Lodi Road,
New Delhi – 110 003.
10. Shri Rahul Sareen, - Member
Financial Adviser,
Ministry of Non-Conventional Energy Sources,
Government of India,
New Delhi – 110 003.
11. Shri Ajit K. Gupta, - Member-Secretary
Adviser & Head, Power Group,
Ministry of Non-Conventional Energy Sources,
Government of India,
New Delhi – 110 003.

Establishment

- A logo for Centre for Wind Energy Technology has been designed and is now in use on all official stationery of the Centre.
- A building has been hired at W-275, III Avenue, C-Sector, Anna Nagar West Extension, Chennai – 600 101 to house C-WET, with effect from May 1998.
- A request has been made to Government of Tamilnadu to allot five acres of land near Chennai. The Government of Tamilnadu has agreed in principle to allot five acres of land at Pallikaranai Village, Velachery – Tambaram High Road, Tambaram Taluk, Kanchipuram District. The cost of the land will be about Rs.42.10 lakhs. Orders from the Government of Tamilnadu are awaited.
- Land measuring about 15.31 acres required for establishment of Wind Turbine Test Station is identified and actions are being taken to get the land from Tamilnadu Energy Development Agency, Chennai and from Private Parties.
- Contract for furnishing of office was awarded during February 1999. The work will be completed within three months.
- Employees required for initial operation were appointed on deputation and on daily rated / contract basis, pending finalisation of service rules.

Future Plans

Research and Development

- Project on Optimal blade angle for energy maximisation.
- Study of Gear box design and failures on field.
- Failure investigation of Wind Farms-grid related problems
- Establish Electronics and Instrumentation Laboratory
- Coordination and participation of on-going sponsored projects of MNES with Electronic Research and Development Centre (ER&DC), National Aerospace Laboratory (NAL), Society for Technical Management (STM).
- Contribution and co-ordination for the project "Development of Wind Diesel Hybrid System" to be sponsored by C-WET/MNES.
- Analysis of monthly performance field data of Wind Farms.

Wind Resource Assessment

- Preparatory work for Wind Atlas for India.
- Projects on Wind Energy Survey Programme (WESP), Identification of Windy sites for North-Eastern States (North East Plan), Micro survey of Wind Resources for 80 selected wind monitoring stations

(Master plan) as sponsored project of Ministry of Non-Conventional Energy Sources (MNES), Government of India.

- Wind Resource Assessment Study at Karnataka State for National Thermal Power Corporation, Hyderabad.
- Verification of Wind Turbine Generating Systems installed in the State of TAMILNADU in coordination with Tamilnadu Electricity Board and Indian Renewable Energy Development Agency as a sponsored programme of MNES.

Standards and Certification

- Review, compilation and procurement of International Standards, Identification and procurement of relevant Indian Standards, Prepare draft Indian Standards for Wind Turbine Generator Systems (WTGS) and forward to BIS for review and recommendations, Coordination with BIS to establish the standards.
- Prepare guidelines for certification and establish certification procedure in coordination with RISO, Denmark and National Technology Development Board, India.

Testing

- Conduct Field Performance Test for two wind turbines (250kW and 500kW).
- Installation of permanent Wind Turbine Test Station at Kayathar, Tamilnadu.

Information, Training and Commercial Services

- Publication of Half-yearly News-letter to disseminate information.
- Training course on installation, operation and maintenance of Field Test Equipment, Wind Resource Assessment, Certification and Testing, Instrumentation in association with RISO/DANIDA and to depute officials of C-WET to RISO National Laboratory, Denmark for training.

Accounts and Audit

- Auditors Report along with Receipts and Payments Account, Income and Expenditure Account for the period ended 31st March 1999 and Balance Sheet as at 31st March 1999 are enclosed in the annexure.

Chairman / President

Founder (Late)

K. GNANANANDULU, G.D.A., F.C.A.,

Managing Partner

K. NARASIMHAM, BA., F.C.A.,

K. Gnananandulu & Co.,

CHARTERED ACCOUNTANTS

682, MOUNT ROAD,

MADRAS - 600 006.

Phone 852 50 67

Res 434 25 23

434 19 57

Managers:

K. RAMAKRISHNA

K. RAVISHANKAR

Residence:

20.21, Madley Road,

T.Nagar,

Madras - 600 017.

AUDITORS REPORT

To

The Governing Council,

Centre for Wind Energy Technology,

W-275, III Avenue, C-Sector,

Anna Nagar West Extension,

Chennai - 600 101.

We have audited the attached Balance Sheet of Centre for Wind Energy Technology as at 31st March 1999, Receipts and Payments Account and Income and Expenditure Account for the period ended as on the date, annexed there to. As required by the TAMILNADU Societies Registration Act, 1975 and TAMILNADU Societies Registration Rules, 1978, we report that:

1. We have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purpose of audit.
2. In our opinion, proper books of accounts as required by law have been kept by Centre for Wind Energy Technology so far as it appears from our examination of the books.
3. The Balance Sheet, Receipts and Payments Account, Income and Expenditure Account dealt with by this report are in agreement with the books of account.
4. In our opinion and to the best of our information and according to the explanations given to us, the said accounts read together with the accounting policies and notes thereon, give the information required by the Tamilnadu Societies Registration Act, 1975 and Tamilnadu Societies Registration Rules, 1978, in the manner so required and give a true and fair view:
 - (i) In the case of the Balance Sheet, of the state of affairs of the Centre for Wind Energy Technology as at 31st March 1999
 - and
 - (ii) In the case of the Income and Expenditure Account of the excess of Expenditure over Income of the Centre for Wind Energy Technology for the period ended on that date.

For **K.Gnananandulu & Co.,**

Chartered Accountants

Place : Chennai.

Date : 27.08.1999

(K.NARASIMHAM)

Partner.

Founder (Late)

K. GNANANANDULU, G.D.A., F.C.A.,

Managing Partner

K. NARASIMHAM, BA., F.C.A.

K. Gnananandulu & Co.,

CHARTERED ACCOUNTANTS

682, MOUNT ROAD,

MADRAS – 600 006.

Phone 852 50 67

Res 434 25 23

434 19 57

Residence:

20.21, Madley Road,

T.Nagar,

Madras – 600 017.

Managers:

K. RAMAKRISHNA

K. RAVISHANKAR

ANNEXURE TO THE AUDITORS REPORT

1. The Centre for Wind Energy Technology has maintained proper records showing full particulars including quantitative details and situation of fixed assets. The said fixed assets have been verified by the management at the end of the year. No material discrepancies have been noticed on such physical verification.
2. As per the information furnished, the Centre for Wind Energy Technology has not taken any loans, secured or unsecured from companies, firms or other parties. No Mortgage or Charge has been created on the Assets of Centre for Wind Energy Technology.
3. As per the information furnished, the Centre for Wind Energy Technology has not given any loans, secured or unsecured to companies, firms or other parties.
4. In our opinion and according to the information and explanations given to us, there are adequate internal control procedures commensurate with the size and the nature of its operation.
5. As per the records of the Centre for Wind Energy Technology and the information and explanations given to us, no personal expenses have been charged to Revenue Account other than those payable under contractual obligation or in accordance with generally accepted practice.

For **K.Gnananandulu & Co.,**
Chartered Accountants

(K.NARASIMHAM)
Partner.

Place : Chennai.

Date : 27.08.1999

BALANCE SHEET AS AT 31ST March 1999

(Value in Rs.)

Source of Funds	Schedule No.		As at 31 st March 1999
1. Capital Fund	1		80,00,000
Total			80,00,000
Application of Funds			
1. Fixed Assets:	2		
Gross Block		96,215	
Less: Depreciation		358	
Net Block		95,857	
Add: Capital Work in Progress		72,548	1,68,405
2. Current Assets:			
Cash and Bank Balance	3	71,93,639	
Loans and Advances	4	1,84,977	
		73,78,616	
Less: Current Liabilities	5	1,45,568	
Net Current Assets			72,33,048
3. Deferred Revenue Expenditure to the extent not written off	6		35,119
4. Excess of Expenditure over Income			5,63,428
Total			80,00,000

For Centre for Wind Energy Technology

 As per our Report attached
 for K.Gnananandulu & Co.,
 Chartered Accountants,

A. JAYARAMAN
 General Manager (F&A)

J.P.L.N. SASTRY
 Officer on Special Duty

AJIT K. GUPTA
 Executive Director

N.N. MOOKERJEE
 President / Chairman

K.NARASIMHAM
 Partner

Place : Chennai.

Date : 27.08.1999

INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD ENDED 31.03.1999

(Value in Rs.)

	Schedule No.	Current Year
INCOME:		
Interest on Term Deposit with Bank		1,45,050
Sale of tender forms		4,225
Total		1,49,275
EXPENDITURE:		
Employees Remuneration	7	2,09,670
Administration and Other Expenses	8	4,90,969
Depreciation	2	358
Deferred Revenue Expenditure Written off	6	11,706
Total		7,12,703
Excess of Expenditure over Income carried to Balance Sheet		5,63,428

For Centre for Wind Energy Technology

As per our Report attached
for **K.Gnananandulu & Co.,**
Chartered Accountants,

A. JAYARAMAN
General Manager (F&A)

J.P.L.N. SASTRY
Officer on Special Duty

AJIT K. GUPTA
Executive Director

N.N. MOOKERJEE
President / Chairman

K.NARASIMHAM
Partner

Place : Chennai.

Date : 27.08.1999

RECEIPTS AND PAYMENTS ACCOUNT FOR THE PERIOD ENDED 31ST MARCH 1999

(Value in Rs.)

	Amount	Amount
I. Receipts		
Grants-in-aid from the Govt. of India		80,00,000
Sale of Tender Forms		4,225
Security Deposit		20,000
Interest Earned on Deposit with Bank		1,45,050
Total		81,69,275
II. Payments		
a. Deposit & Advance		
Imprest Advance	4,527	
Rent Advance	1,62,000	
Telephone Deposit	18,000	
Security Deposit with TNEB	450	1,84,977
b. Employees Remuneration		
Salaries & Allowances	99,472	
Wages	59,950	1,59,422
c. Administration and Other Expenses		
Registration fee	125	
Rent for office Building	2,70,000	
Telephone charges	7,783	
Bank charges	20	
Car/Taxi hire charges	21,254	
Accommodation charges	25,474	
Advertisement	8,108	
Printing & Stationeries	6,672	
Postage & Courier charges	1,334	
Travel & conveyance	75,452	
Electricity charges	2,196	

	Amount	Amount
Transportation charges	175	
Office expenses & maintenance	5,572	
Refreshment	4,626	
Meeting Expenses	8,367	
Books & Periodicals	50	4,37,208
d. Capital Expenditure		
Furniture and Fittings	86,594	
Capital Work in Progress	65,293	1,51,887
e. Deferred Revenue Expenditure (partition)		42,142
Total (a + b + c + d + e)		9,75,636
III. Closing Balance (I-II)		
Bank Balance	71,93,616	
Stamps on hand	23	71,93,639

For Centre for Wind Energy Technology

As per our Report attached
for **K.Gnananandulu & Co.,**
Chartered Accountants,

A. JAYARAMAN
General Manager (F&A)

J.P.L.N. SASTRY
Officer on Special Duty

AJIT K. GUPTA
Executive Director

N.N. MOOKERJEE
President / Chairman

K.NARASIMHAM
Partner

Place : Chennai.

Date : 27.08.1999

Schedule 1 : Capital fund:

(Value in Rs.)

As at 31st March 1999

Grants-in-aid from Govt. of India

80,00,000

Schedule 2 : Fixed Assets:

(Value in Rs.)

Description of Assets	Gross Block	Depreciation for the year		Net Block as at 31.3.1999
		Rate	Amount	
Furniture & Fittings	96,215	6.23%	358	95,857
Capital Work In Progress				72,548
Total				1,68,405

Schedule 3 : Cash and Bank Balance :As at 31st March 1999

Cash on hand

NIL

Stamps on hand

23

Balance with scheduled bank on current account

71,93,616

Total**71,93,639****Schedule 4: Loans and Advances:**As at 31st March 1999

Imprest Advance

4,527

Rent advance

1,62,000

Telephone deposit

18,000

Security deposit with TNEB

450

Total**1,84,977**

Schedule 5 : Current Liabilities:

(Value in Rs.)

As at 31st March 1999

Rent payable	22,950
Salary & wages payable	38,016
Car/Taxi hire charges payable	3,467
Travel & Conveyance payable	3,993
Accommodation charges payable	3,748
Telephone charges payable	4,855
Electricity charges payable	698
Auditors remuneration payable	10,000
Income Tax deducted at source	4,222
TN. Power Finance & IDCL (salary recoveries)	6,418
Tamilnadu Electricity Board (salary recoveries)	5,642
Security deposit / EMD	20,000
Modern Enterprises, Chennai	21,559

Total	1,45,568
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Schedule 6 : Deferred Revenue Expenditure :As at 31st March 1999

Deferred revenue expenditure	46,825
Less: Written off during the year @ 25%	11,706

Balance	35,119
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Schedule 7 : Employees Remuneration:

Current year

Salaries & Allowances	1,39,383
Wages	68,530
Contribution to Provident Fund	1,757

Total	2,09,670
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Schedule 8 : Administration and other Expenses:

	(Values in Rs.)
	Current year
Registration fee	125
Rent for Office Building	2,97,000
Telephone charges	12,638
Bank charges	20
Car/Taxi hire charges	24,721
Accommodation charges	29,222
Advertisement	8,108
Printing & Stationeries	6,672
Postage & Courier charges	1,334
Travel & conveyance	79,445
Electricity charges	2,894
Transportation charges	175
Office expenses & maintenance	5,572
Refreshment & hospitality	4,626
Meeting Expenses	8,367
Books & Periodicals	50
Auditors remuneration – for Audit	7,000
Auditors remuneration – for other services	3,000
Total	4,90,969

Schedule 9 : Notes forming part of Accounts :

1. The Centre for Wind Energy Technology (C-WET) is an autonomous Institution of Ministry of Non-Conventional Energy Sources, Government of India. The C-WET is formed as a Society on 18th February 1998 and registered as a society under Section 10 of the Tamilnadu Societies Registration Act, 1975 on 21st March 1998 with the object to serve as the technical focal point for Wind Power Development in India, support Research and Development Programme, assess Wind Resources, establish Standards, Testing and Certification of wind power systems, sub-systems and components and undertake Human Resource Development Programmes.
2. Significant Accounting Policies: The accounts are prepared in accordance with the accounting principles generally accepted in India.
3. The income and expenditure are provided in the accounts on accrual basis.
4. Fixed Assets are capitalised at acquisition cost inclusive of directly attributable cost, depreciation on Fixed Assets is provided at pro-rata basis on Straight Line Method at the rates prescribed under Schedule XIV of the Companies Act, 1956.
5. All the income, movable and / or immovable properties of C-WET shall be solely utilised and applied towards the promotion of objectives as set forth in the Memorandum of Association and no profit thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, profit, or in any manner whatsoever, to the present or past members of C-WET or to any of them or in any manner through anyone or more of the members. No members of C-WET shall have any personal claim on any movable and / or immovable properties of C-WET or make any profit whatsoever, by virtue of his / her membership of C-WET.
6. No provision has been made towards Gratuity, Pension and other Retirement Benefits as no permanent employee / employee on deputation, on roll, who have completed more than 6 months service in C-WET.
7. Grants-in-aid of Rs.80 lakhs received from Government of India has been accounted under the head "Capital Fund".
8. Amounts spent on partition works have been classified as Deferred Revenue Expenditure and proposed to be written off in four years @ 25% each.
9. Contingent liabilities not provided for: NIL
10. Expenditure in Foreign Currency: NIL
11. Estimated amount of contracts remaining to be executed on Capital Account and not provided for is Rs.24,183/-.
12. Managerial remuneration: No salary has been paid to the Chairman / Executive Director. However, a sum of Rs.6,536/- has been incurred towards accommodation and local travelling expenses to Executive Director.

13. The figures shown in the accounts are rounded off to the nearest rupee.
14. An application has been filed with the Director of Income Tax (Exemption), Chennai to register C-WET under Section 12A(a) of the Income Tax Act, 1961. They have requested for certain amendments in the memorandum of association. Action is being taken for amendments in the memorandum of association and for registration.
15. As this being the first year of operation, providing figures for the previous year does not arise.

Signatures to Schedule 1 to 9

For Centre for Wind Energy Technology

As per our Report attached
for **K.Gnananandulu & Co.,**
Chartered Accountants,

A. JAYARAMAN

General Manager (F&A)

J.P.L.N. SASTRY

Officer on Special Duty

AJIT K. GUPTA

Executive Director

N.N. MOOKERJEE

President / Chairman

K.NARASIMHAM

Partner

Place : Chennai.

Date : 27.08.1999

**CENTER FOR WIND ENERGY TECHNOLOGY,
CHENNAI - 600 101.**

NOTICE

Notice is hereby given that the First Annual General Meeting of the Members of Centre for Wind Energy Technology will be held at Conference Room, Ministry of Non-Conventional Energy Sources, Government of India, New Delhi - 110 003 on Monday, the 20th September, 1999 at 3.00 P.M., to transact the following business:

1. To receive, consider and adopt the Annual Report for the year 1998-99 (date of formation, 18.02.98 to 31.03.99), audited Balance Sheet as at 31st March, 1999, Receipt and Payments Account and Income and Expenditure Account for the period ended as on that date and Reports of the Auditors thereon.
2. To consider appointment of Auditors for the year 1999-2000.
3. To consider inclusion of the following clauses in the Memorandum of Association and, if thought fit, to pass with or without modification, as a special resolution.

6.3.0 The Institution is irrevocable;

6.4.0 In case of Winding up / dissolution, the net funds would be transferred to institutions having similar objects and enjoying Exemption under Section 11 and 80G of the Income Tax Act, 1961;

6.5.0 Any amendment to the instrument would be carried only with the approval of Director of Income Tax (Exemptions);

6.6.0 The Activities would be confined to the territory of India;

6.7.0 The activities would be of purely Research and Development nature not motivated for profit;

6.8.0 The funds of the institution would be invested as per Section 11(5) of the Income Tax Act, 1961.

For Centre for Wind Energy Technology

Place: Chennai.

Date : 26.08.99

AJIT K. GUPTA

Executive Director



Instrumentation of met mast by
Shri S.A. Mathew, Test Engineer, C-WET
and Shri Ole Frost Hansan of RISO for
Field Testing of Vestas 500 kW WTG
at Pazhavor near Munpandal.

Wind Monitoring Station at Hulikatte for
NTPC

