



## **Thirteenth Annual Report 2010-2011**



**MASTER COPY**

**SARDAR SWARAN SINGH**  
**NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
(An Autonomous Institution of Ministry of New and Renewable Energy)

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**12 K.M. Stone, Jalandhar- Kapurthala Road, Wadala Kalan,  
Kapurthala-144 601 (Punjab)**

**ANNUAL REPORT  
2010-2011**



**SARDAR SWARAN SINGH-  
NATIONAL INSTITUTE OF RENEWABLE ENERGY  
(SSS-NIRE)**

**(An Autonomous Institution of Ministry of New and Renewable Energy)**

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**12 K.M. Stone, Jalandhar- Kapurthala Road, Wadala Kalan,  
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## **1. INTRODUCTION**

Sardar Swaran Singh National Institute of Renewable Energy is an autonomous Institute of the Ministry of New and Renewable Energy, Govt. of India, to conduct *state-of-the-art* Research, Design and Development activities in all the areas relating to new and renewable energy sources (especially in bio-energy), energy needs in rural areas, human resources development at all levels, post doctoral research and research leading to commercialization of the new and renewable energy technology. The campus of the Institute is being developed on about 75 acres of land. The construction of buildings and area development in the Institute has been taken up by CPWD. Major policies for the Institute are formulated under the guidance of Governing Council, under the Chairmanship of Secretary, MNRE. The tenure of the Governing Council is three years. The term of the existing GC expired in December, 2010. A new Governing Council have been constituted. It is proposed to operationalise the Institute during the 11<sup>th</sup> Five Year plan period within the originally approved outlay. Accordingly, actions have been taken covering all the aspects for establishment of the Institute.

## **2. OBJECTIVES AND FUNCTIONS**

The Institute has the objectives of developing its laboratories with the *state-of-the-art* facilities in the area of biodiesel, biogas, bioethanol, thermochemical conversion and biomass management for R&D works and human resources development. In addition to that the Institute will utilize its human resources for organizing training programs from time to time and commercial utilization of lab-scale facilities. The Institute is to disseminate the technologies developed to the actual users and stake holders at state/national level. The broad objectives of the Institute are given below:

- a) To carry out and facilitate research, design, development, testing, standardization and technology demonstration eventually leading to commercialization of RD&D output in renewable energy sector with a focus on:
  - i. Bioenergy, biofuels and synthetic fuels in solid, liquid and gaseous forms for transportation, portable and stationary applications;
  - ii. Development of hybrid/integrated energy systems; and
  - iii. Bioenergy resource assessment
- b) To take up activities in the field of renewable energy, which have not been included in the activities of existing Centres of the Ministry of New and Renewable Energy.
- c) To undertake and facilitate human resource development and training including post-doctoral research in the area of bioenergy.
- d) Providing technical support to the Ministry of New & Renewable Energy, State Nodal Agencies, Indian Renewable Energy Development Agency (IREDA) and Industries in the area of bioenergy.

### **Research Divisions and Laboratory setup**

The R&D laboratories of the Institute and facilities are subdivided under the following headings as per application point of view.

- i R&D Block-I (Biochemical Energy Lab viz. Biodiesel, Bioethanol and Biogas)
- ii R&D Block-II (Thermo chemical Energy Lab viz. Biomass Gasification, Combustion, Pyrolysis, Fuel Cell and New Energy System)
- iii R&D Block-III (Biomass Assessment and Management Lab including GIS and Remote Sensing).
- iv Common Facility Building (Computer Lab, Library, Conference Hall and Canteen)
- v Workshop (Common Tools and Test Engines)

### **Scientific Activities to be started:**

- i Biodiesel production and its utilization in engines
- ii Bioethanol production using ligno-cellulosic materials
- iii Assessment of biomass availability especially the agricultural crop residues for energy purpose.
- iv Installation of a biogas plant and cleaning of biogas and its bottling
- v Briquetting of biomass and gasification (demonstration plant)
- vi Generation of hydrogen from biogas & producer gas and application of gas in fuel cell for electricity generation
- vii Biomass pyrolysis to generate wood oil.
- viii Installation of Solar Thermal and PV Devices as demonstration cum R &D unit and performance evaluation.
- ix Energy plantation inside the campus of the Institute.

### **Research related Objectives**

#### **i Short Term**

- Training to the scientific staff.
- Development of core laboratory and workshop facilities (to work out the specification of equipments and initiate the purchase)
- Development of State of art Laboratories
- Development of library facilities (subscription of appropriate journals and purchase of books).
- Development of conceptual technologies in all research areas based on Laboratory experimental work.
- Installation of NRE Gadgets.

- Collaboration with other Teaching, R&D installations and Industries.

## **ii Medium Term**

- Laboratory development units (LDU) of the technologies developed in labs to assess their technical viability.
- Training programmes to stack holders such as operators, engineers, research scientists, Govt. officers etc.
- Seminar/Workshop to disseminate recent knowledge and to facilitate interaction among the Bioenergy Researcher, Scientist, Entrepreneur and Industries (BPPs).
- Consultancy to the industries using biomass based energy source.
- Extension of Laboratory facilities for commercial purpose.
- Start of Fellowship programme for Ph.D.

## **iii Long Term**

- Pilot plant studies on the technologies for economic, technical, social appraisal & to conduct Engineering modifications.
- All activities as listed under medium term will be further strengthened.
- A cell will be created to provide information on design, operation, trouble shooting in the Industries in NRE devices.

### 3. CHARTER

With a view to manage, administer, direct and control the affairs of SSS-NIRE, an environment and culture conducive to achievement of excellence, will be created by ensuring:

- i **Commitment to the mission:** sense of purpose and direction to policies, programmes & activities to achieve the aims and objectives;
- ii **Commitment of staff members:** liberal, positive and people-sensitive personnel policies, training and management development with special reference to advance technologies equipment and result orientation;
- iii **Commitment to excellence:** professional competence, encouragement to creativity, innovation, initiative and career development; and
- iv **Commitment to society:** application of the state-of-the-art research and development to national/social priorities.

### 4. APPROVED MASTER PLAN

The approved master plan of the campus includes construction of three R&D Laboratories, Administrative and Technical Services Buildings, Trainees Hostel, Workshop, Common Facility Building (Library, Computer Centre and Conference Hall) and 22 Residential Quarters using principles of energy efficient solar buildings and solar passive architecture. Heating, Ventilation and air-conditioning (HVAC), indirect-direct evaporating cooling (IDEC) system have also been planned. The work of construction of Buildings and Developing Infrastructure is being executed by the Central Public Works Department (CPWD) under 'Deposit Work Scheme' and likely to be completed within 2011.



## 5. MAJOR SCIENTIFIC ACTIVITIES UNDERTAKEN DURING 2010-11

- Establishment of state of art Laboratory facilities for Chemical, Bio-Chemical and Thermo-Chemical Conversion of biomass.
- Establishment of Workshop facilities for fabrication and modification/repair of experimental setups.
- Development/furnishing of conference room, Laboratories, guest house, hostels, offices etc.
- Rate contract for the purchase of
  - ✓ Glass wares for laboratories
  - ✓ Chemicals for laboratories
  - ✓ Furniture and fixtures
- Identification of Internal and statutory auditors for the Institute
- Writing of research projects and their submission for funding
- Street lighting on the campus
- Landscaping and horticultural activities
- Energy plantation
- Development of Web page of SSS-NIRE

## 6. PROGRESS OF SCIENTIFIC ACTIVITIES

The following facilities have been created in the establishment of Laboratory and Workshop by 31/03/2011 as given:

### **Lab Equipment**

Number of Equipment ordered:	28
Number of Equipment received:	27
Number of Equipment installed:	21

**Workshop machines/Tools**

Number of Workshop machines/ Tools ordered: 15

Number of Workshop machines/ Tools received: 15

Number of Workshop machines/ Tools installed: 15

**The following laboratory equipments have been procured during FY 2010-11:**

S.No.	Name of Equipment	Amounts (Rs. in lakhs)
1	Precision Laboratory Balance 210 g	0.58
	Precision Laboratory Balance 610 g	0.16
2	Platform Balance	0.18
3	Hot Air Oven	0.47
4	Sensors for Temperature, Pressure, Humidity, Air Velocity etc. with data acquisition system	4.01
5	Muffle Furnace	0.90
6	Digital pH meter	0.58
7	Automatic Bomb Calorimeter	5.95
8	Biodiesel Preparation Unit	8.70
9	Refrigerators	1.26
10	Down draft Gasifier with throat	9.80
11	Autoclave	1.45
12	Microscope	1.99
13	Incubator	0.49
14	Micropipette	0.65
15	Environmental Shaker	7.70
16	Magnetic stirrer (3)	0.38
17	Water bath	0.16
18	Horizontal air flow laminar hood	0.61

19	Refrigerated centrifuge	3.88
20	Cryofreezer	4.73
21	CHN Analyzer	21.63
22	Thermo-Gravimetric Analyzer	12.30
23	Petroleum density meter	11.65
24	Flashpoint (automatic) apparatus	5.80
25	Kinematic viscometer	4.34
26	Rotary Vacuum evaporator	5.49
27	Soxhlet Apparatus	0.91
28	Mechanical Stirrer	0.63
	<b>Total</b>	<b>117.38</b>

**The following workshop machines have been procured during FY 2010-11:**

S.No.	Machine Name	Price (Rs. In lakhs)
1.	Lathe Machine	3.96
2.	Hydraulic Cutting Machine	0.59
3.	Fixed Grinder	0.36
4.	Pillar Drill machine	0.38
5.	Hand Drill machine	0.04
6.	Rotary Hammer Drill	0.18
7.	Grinding machine	0.05
8.	Gas Welding/Cutting Set	0.42
9	Arc welding Set	0.81
10.	Air Compressor	0.08
11.	Power Spray Pump	0.05
12.	Work Benches	1.10
14.	Grass cutting Machine	0.27
15.	Tractor with Trolley, Water Tanker etc.	9.10
<b>Total cost</b>		<b>17.39</b>

### Energy plantation

- 10,000 Jatropha plants have been planted over 3 hectares of land for structural studies.
- 200 Bamboo plants have been planted on the campus
- 3,000 forestry and oil bearing plants have been planted along with boundary wall of the Institute.

### The following books/journals have been procured for documentation centre:

S.No.	Title	Procured	Under process/proposed
1.	Scientific books	100	200
2.	General Books	50	75
3.	Administrative & Accounts Books	39	
4.	Journals	7	25
5.	News letter	5	10
6.	Scientific reports	20	
	<b>TOTAL</b>	<b>221</b>	<b>310</b>

### The status of R&D Projects at the Institute

S.No.	Projects	Status	PI/Co-PI	Remarks
1	Integrated Technology Development for Biodiesel Production using Heterogeneous Catalyst	On-going	Dr. AK Sarma/ Dr. Sachin Kumar	A research Associate (Mr. Ashish Chouhan) has been appointed
2	Biocrude Production: Hydrocracking of nonedible Vegetable Oil	Defended	Dr. AK Sarma/ Dr. Sachin Kumar	Under MNRE consideration
3	Process Development for Bioethanol Production from Agricultural Residues	Clarification provided on experts' comments	Dr. Sachin Kumar/ Dr. AK Sarma	Revised proposal has been submitted to MNRE
4	Paddy Straw Based Biomethanation Demonstration Plant for Transportation, Domestic Cooking and Power Generation Applications	Project formulation under progress	Dr. SK Tyagi/ Dr. Sachin Kumar	Being developed in collaboration with SERI Gas

## **A brief outline of the Ongoing R&D activities**

A status paper on “Modern heterogeneous catalyst” has been prepared that includes all the major research and achievement in the subject and submitted for publication in a reputed International Journal. Six numbers of equipments have been purchased from the project head, namely, petroleum density meter, kinematic viscometer and bath, automatic flash point apparatus, mechanical stirrer, Rotary vacuum evaporator and soxhlet apparatus. For experimental purpose, 10kg oilseed was collected from SEC, MNRE and 100L of mechanically expelled oil was purchased from an oil factory, Udaipur, Rajasthan. Strictly considering the defined objectives of the project, three different heterogeneous catalysts have been prepared from waste biomass materials (one from banana plant, two other from aquatic plants). From the preliminary investigation, it is found that out of three, one derived from *Musa balbisiana* underground stem shows promise during trans-esterification of *jatropha curcas* oil using methanol and ethanol. The detail characterization and process optimization are in progress.

## **Collaborations & Contact with Other Institutions**

- |  |                             |
|--|-----------------------------|
| ✓ Signed an MoU with NIT,<br>Jalandhar | ✓ IIT, Delhi                |
| ✓ PTU, Jalandhar                       | ✓ IIT, Roorkee              |
| ✓ IOCL, Jalandhar                      | ✓ IIP, Dehradun             |
| ✓ Punjab University, Chandigarh        | ✓ Tezpur University, Tezpur |
| ✓ PAU, Ludhiana                        | ✓ SPRERI                    |
|  | ✓ PBTI, Mohali              |

## Publications

S.No.	Title	Authors	Name of Journal
1	Feasibility of ethanol production with enhanced sugar concentration in bagasse hydrolysate at high temperature using <i>Kluyveromyces</i> sp. IPE453	Kumar S, Singh SP, Mishra IM and Adhikari DK	Biofuels, 1(5), 697-704 (2010)
2	Continuous ethanol production by <i>Kluyveromyces</i> sp. IPE453 immobilized in bagasse chips in packed bed reactor	Kumar S, Singh SP, Mishra IM, Adhikari DK	J. Pet. Technol. Altern. Fuels, 2(1), 1-6 (2011)
3	Characterization of hyperthermostable $\alpha$ -amylase from <i>Geobacillus</i> sp. IPTN	Dheeran P, Kumar S, Jaiswal YK, Adhikari DK	Appl. Microbiol. Biotechnol. 86(6), 1857-1866 (2010)
4	Modern heterogeneous catalyst for biodiesel production- a comprehensive review	APS Chouhan; AK Sarma	Accepted in Renewable & Sustainable Energy Reviews
5	Green Technology for biodiesel Production using waste material based heterogeneous catalyst.	APS Chouhan; AK Sarma	Accepted in 2 <sup>nd</sup> International Conference on Green and Sustainable Technology, Greensboro, North Carolina, USA
5	Recent trends and development for conversion of waste biomass to useful liquid fuels & chemicals via fast pyrolysis	P Saikia, APS Chouhan, AK Sarma	Ready for submission
6	Thermal performance evaluation of solar air heater with and without thermal energy storage	VV Tyagi, AK Pandey, SC Kaushik, SK Tyagi	J Thermal Analysis & Calorimetry (2011)
7	Comparative experimental study of solar cookers using energy analysis	AK Pandey, VV Tyagi, SR Park, SK Tyagi	J Thermal Analysis & Calorimetry (2011)

### Participation in seminars/symposia

S.No.	Symposia/Seminar	Scientific person	Visit to
1	Workshop on Refining & Petrochemicals on August 25-28, 2010	AK Jain, AK Sarma and Sachin Kumar	NIT, Jalandhar
2	National symposium on Emerging trends in Energy-Guest of Honour	A K Jain	PU Patiala
3	International Conference 'Delhi International Renewable Energy Conference- DIREC-2010' on 27-29 October, 2010	A K Jain	Expo Centre, Greater Noida
4	One day Conference on Innovation and Creativity – Key note address	A K Jain and A K Sarma	Doaba Group of Colleges, Rahon.
5	One day workshop regarding RFD	AK Jain and Sachin Kumar	Vigyan Bhawan, New Delhi
6	Invited lecture on biomass energy	AK Jain	Tezpur University, Assam
7	National Seminar on Green Energy for Empowering Rural India	AK Jain	RGIIT, Amethi
8	National Seminar on role of Chemical Engineering in Renewable Energy Sector	AK Jain	JMIT, Radour, Haryana
9	Guest of Honour on the Energy Day Celebration	AK Jain	Pushpa Gujral Science City, Kapurthala
10	National Symposium on Solid Waste Management- Key note address	AK Jain	Indian Institute of Plastics, Chandigarh

## 7. PROGRESS OF CONSTRUCTION

A physical progress report of the Institute as on 31.03.2011 is summarized in table as given below:

S.No.	Locations	Physical Status
1.	Residential Housing Type-IV & V	95% completed
2.	Residential Housing Type-II	90% completed
3.	Technical Building	Completed
4.	Administrative Building	95% completed
5.	R&D-I	90% completed
6.	R&D-II & III	70% completed
6.	Hostel	95% completed
7.	Workshop	Completed
8.	Substation	90% completed
9.	Common Facility	80% completed
10.	Water Body	80% completed
11.	Overhead Tank	80% completed

## 8. ADMINISTRATIVE ACTIVITIES

- Relieving of Administrative-cum-Accounts Officer on 21.05.2010 on personal request to his parent department Punjab State Council for Science & Technology from the Institute.
- A Meeting was held on 12th May, 2010 regarding distribution of work among the staff of SSS-NIRE in the absence of Admin-cum Accounts Officer as under:



<b>Sl. No.</b>	<b>Name and Designation</b>	<b>Work</b>
1.	Dr. A. K. Sarma Scientist-'D'	Will attend to the administrative work of the Institute in addition to his routine work as Technical Head/Scientist-'D'
2.	Er. Sachin Kumar Scientist-'B'	Will attend to the Accounts & Finance work of the Institute in addition to his routine duties as Scientist-'B'
3.	Mr. Ram Anuj Singh A. E. (Civil)	Engineering, Technical, Stores & Purchase and Horticulture work with the support of two Technical Assistants and and other works entrusted to him by Director.
4.	Mr. Rupesh Kumar Verma Office Assistant	Administrative matters, shall report to Director through Scientist-'D'
5.	Mr. Sanjay B. Chauhan Office Assistant	Finance & Accounts matters, shall report to Director through Scientist-'B'.
6.	Mr. Vijay Bajala Technical Assistant	Technical, Finance & Purchase work, shall report to Scientist-'D'.
7.	Ms. Shuchi Sahu Technical Assistant	Technical and Stores work, shall report to Scientist-'D', Scientist-'B' & A.E. (Civil) respectively

- Advertisement to fill up the post of Scientist-'E' and Administrative-cum-Accounts Officer was published in Employment News on 07-13 August, 2010, two National Dailies and one local Punjabi daily.
- A screening committee was constituted for scrutinize the application for Scientist -E and Admin-cum-Accounts officer on 23.09.2010. Thereafter, the Screening Committee meeting was held on 09.10.2010 at SSS-NIRE. The Selection Committee was constituted on 21.10.2010 and the Interview was held for the said posts on 18th November, 2010 at MNRE, New Delhi.
- After the selection was over the police verification and Medical verification for Scientist-'E' was posted on 20.12.2010 after the approval of competent authority. Dr. S. K. Tyagi joined his duty on dated 22nd March, 2011 after the completion of all necessary processes.

- Police and Medical verification forms were posted for filling the post of Administrative-cum-Accounts Officer on 04.01.2011 after the approval of competent authority. Sh. Abhishek Gupta joined his duty on 27th April, 2011, after the completion of all necessary processes.
- 15th Meeting of the Governing Council of SSS-NIRE held on 10th June, 2010 at MNRE, New Delhi. In the meeting 12 members were present. The GC constituted five other Committees for smooth running of Administrative, R&D, Purchase and Building and works related matter at the Institute.
- The 1<sup>st</sup> Finance Committee meeting of the Institute was held on 22/7/2010, at MNRE, New Delhi.
- The 2<sup>nd</sup> Finance Committee meeting was held on 27/09/2011 at MNRE New Delhi. The meeting was extended for another day on 29/09/2011 for a few additional agenda items.
- 16th Meeting of the Governing Council of SSS-NIRE held on 30th September, 2010 at MNRE, New Delhi.
- Dr. Ajay Sharma joined the Institute as consultant, under UNDP Biomass Project on 30.04.2010 and continued up to 05.09.2010.
- The first R&D Committee meeting was held on 28th July, 2010 to review the R & D plan of the Institute and the requirement of equipment and workshop material for various laboratory and workshop development.
- The 1<sup>st</sup> Standing technical Committee meeting was held on 29th July, 2010 to finalize the technical specification of the laboratory equipments.
- The 1<sup>st</sup> Purchase Committee meeting was held on 20th July, 2010 to review the purchase process of the Institute.

- The 2<sup>nd</sup> Standing Technical Committee meeting was held on 12th October, 2010 to finalize the technical specification of the first set of lab equipments. The STC suggested to constitute a sub-committee involving experts to finalise the specification of the equipments.
- The sub Standing Technical Committee meeting was held on. 6/12/2010 to freeze the specifications of equipments.
- A selection committee meeting was held on 17/11/2010 to select Research Associate/ Post doctoral fellow for the sanctioned MNRE project entitled “Integrated Technology Development for Biodiesel Production using Heterogeneous Catalyst”. Sh Ashish Chouhan was appointed as Research Associate on 1/12/2010 under the project.
- The 2<sup>nd</sup> Purchase Committee meeting was held on 08th December, 2010 to initiate.
  - a) Purchase of equipments for the project entitled "Integrated Technology Development for Biodiesel production using heterogeneous catalyst".
  - b) Proposal for appointment of freight forwarded agent for clearance and transportations of equipments to the Institute.
  - c) Rate contract for glassware and chemicals.
- The 3<sup>rd</sup> purchase committee meeting held on 02nd February, 2011 to select tendered lab equipments.
- The 4<sup>th</sup> purchase committee meeting held on 08<sup>th</sup> March, 2011.
- The 5<sup>th</sup> purchase committee meeting held on 10<sup>th</sup> March, 2011.
- The 1<sup>st</sup> building and works committee meeting held on 28<sup>th</sup> July, 2010.
- The 2<sup>nd</sup> building and works committee meeting held on 14<sup>th</sup> December, 2010.
- The 3<sup>rd</sup> building and works committee meeting held on 16<sup>th</sup> March, 2010.
- New Staff Car as replacement of the old car was purchased in March, 2011.

### Current Staff position at the Institute

Description	Sanctioned strength	In position
Scientists	3	3
AAO	1	1
Asstt. Engineer (Civil)	1	1
Office Asst.	2	2
Technical Asst.	2	2
<b>Total</b>	<b>9</b>	<b>9</b>

### Maintenance & security services outsourced

S. No.	Description	Duties	No. of persons outsourced
1.	Security	Security In-charge/Security Guard	1 + 6
2.	Housekeeping	Sweeper/ Office Attendant	3 + 2
3.	Horticulture	Gardener/Agriculture Helper	1 + 6
4.	Supporting office staff	Driver (Office Car)	1
5.	Office Staff	Store Assistant/ Accounts Asst	1
6.	Laboratory Facilitator	Technician	2
7.	Laboratory Facilitator	Electrician, Mechanic, Plumber, Tractor Operator	4
8.	Secretary to Director	Secretary	1
9.	Assistant to Scientist/Officers	Office Assistant	2
	<b>TOTAL</b>		<b>30</b>

Proposed to out source 15 numbers of scientific/ technical manpower/ consultants for carrying out R&D and testing activities.

**9. ANNUAL AUDITED ACCOUNTS AND AUDITOR'S REPORT FOR THE FINANCIAL YEAR 2010-11**

Accounts of the Institute for the Financial Year 2010-11 have been prepared and duly audited by Internal Auditor. The Statutory Audit has been carried out by duly appointed Auditor M/s S. Jain & Co., The Mall, Ludhiana (Punjab). The Auditor's Report has been received and its approval has been obtained. The audited expenditure for 2010-11 is Rs. 517.61 Lakhs and the cumulative expenditure up to 31<sup>st</sup> March 2011 is about Rs. 2947.70 Lakhs. The details of the Accounts, Auditor's Report, and Expenditure of the Institute for the Financial Year 2010-11 are given at **Appendix-I** and cumulative expenditure up to 31.03.2011 is given at **Appendix-II**.

S JAIN & CO.  
CHARTERED ACCOUNTANTS

RED CROSS BUILDING,  
THE MALL, LUDHIANA  
TELE : 0161-2448228

FORM NO. 10 B  
[RULE 17 B]

AUDIT REPORT U/S 12 (A) (b) OF THE INCOME TAX ACT, 1961

We have examined the Balance Sheet of SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY (SSS NIRE), JALANDHAR as at 31.03.2011 and Receipts & Payments account as on that date which are in agreement with the books of accounts maintained.

We have obtained all the information and explanation which to the best of our knowledge and belief were necessary for the purpose of audit. In our opinion, proper books of accounts have been kept by the Society so far as appear from our examination of books subject to notes to accounts annexed herewith.

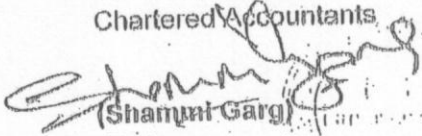
In our opinion and to the best of our information and according to explanations given to us, the said

- i) In the case of the Balance Sheet of the state of affairs of the above named Society as at 31.03.2011.
- ii) In the case of Receipt & Payment of the transaction of the Society for the period ended on that date.

Place : Ludhiana

Date : 12.07.2011

For S.JAIN & CO.  
Chartered Accountants

  
(Shammi Garg)  
Partner  
M.NO. 095431

**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
(An Autonomous Institution of Ministry of New & Renewable Energy)  
Kapurthala (Punjab) - 144 601

**BALANCE SHEET AS AT 31ST MARCH, 2011**

CAPITAL FUND AND LIABILITIES	Schedule	31st March, 2011	31st March, 2010
Corpus / Capital Fund	I	3,769,155	3,769,155
Reserve & Surplus	II	351,413,000	307,000,000
Current Liabilities & Provisions	III	8,375,585	584,886
<b>TOTAL</b>		<b>363,557,740</b>	<b>311,354,041</b>
<b><u>ASSETS</u></b>			
Fixed Assets	IV	231,373,136	176,613,648
Current Assets, Loans & Advances	V	132,184,604	134,740,393
<b>TOTAL</b>		<b>363,557,740</b>	<b>311,354,041</b>
<b>NOTES ON ACCOUNTS</b>	<b>VII</b>		

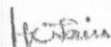
For SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY

As per our Audit Report Attached  
For S. Jain & Co.  
Chartered Accountants

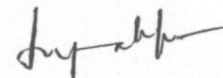
Place : Ludhiana  
Date : 12.07.2011



Abhishek Gupta  
Administrative-cum-Accounts Officer



Dr. A. K. Jain  
Director



Chairman

  
(Shammi Garg)  
Partner  
M.No. 095431

FINANCIAL YEAR 2010-11

**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
(An Autonomous Institution of Ministry of New & Renewable Energy)  
Kapurthala (Punjab) - 144 601

**RECEIPTS AND PAYMENTS ACCOUNT**

(Amount in Rs.)

RECEIPTS	31st March, 2011	31st March, 2010
<b>I. Opening Balances</b>	74,819,754	41,304,502
(a) Cash in Hand	19,925	188
(b) Bank Balances		
i) In Saving A/C	66,339,093	35,904,428
ii) In Deposit A/c	8,721,312	5,430,056
Less Cheque issued but not presented	260,592	30,169
	74,799,813	41,304,315
(c) Stamps in Hand	16	-
<b>II. Grants Received</b>	45,113,000	70,000,000
(a) Bio-Diesel Production Project	4,413,000	-
(b) Bio-Mass Power Project	700,000	-
(c) From Govt. of India	40,000,000	70,000,000
<b>III. Interest Received</b>	4,487,775	3,653,468
(a) On Bank Deposits	4,483,342	1,754,633
(b) On Saving Banks	4,433	1,898,835
<b>IV. Other Income</b>	119,514	49
(a) Securities Received	60,000	-
(b) Misc. Income	53,893	-
(c) Postal Stamps	-	49
(d) Advance from Staff	5,621	-
<b>TOTAL</b>	124,640,043	114,958,020

Contd...2



**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
(An Autonomous Institution of Ministry of New & Renewable Energy)  
Kapurthala (Punjab) - 144 601

**RECEIPTS AND PAYMENTS ACCOUNT**


(Amount in Rs.)

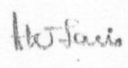
PAYMENTS	31st March, 2011	31st March, 2010
<b>I. Payments Made Against Funds for various Projects</b>	<b>54,699,208</b>	<b>40,027,456</b>
<b>Out of Capital Grant</b>	<b>51,166,732</b>	<b>40,027,456</b>
(a) Exe. Engineer CPWD	38,800,000	36,000,000
(b) Expenditure on Fixed Assets & CWIP	12,366,732	4,027,456
(i) Capital WIP (As per List -A)	6,524,903	3,232,573
(ii) Fixed Assets	5,841,829	794,883
<b>Out of Grant for Projects</b>	<b>3,532,476</b>	-
(a) Fixed Assets Under Bio-Diesel Project	2,880,773	-
(b) Expenses Under Bio-Diesel Project	275,728	-
(c) Expenses Under Bio-Mass Project	375,975	-
<b>II. Other Payments</b>	<b>9,416,590</b>	<b>110,826</b>
(a) Advances & Deposits	9,092,296	10,621
(b) Outstanding Expenses	324,294	44,255
(c) Telephone Security	-	2,000
(d) Previous Year Adjustment	-	53,950
<b>III. Closing Balances</b>	<b>60,424,245</b>	<b>74,819,738</b>
(a) Cash in Hand	7,374	19,925
(b) Bank Balances	60,416,243	74,799,813
(i) In Saving Bank A/c	16,834,338	66,339,093
(ii) In Current A/c	1,769,706	-
(iii) In Deposit A/c	49,208,731	8,721,312
	67,812,775	75,060,405
Less Cheque issued but not presented	7,396,532	260,592
	60,416,243	74,799,813
(c) Postal Stamps	628	-
<b>TOTAL</b>	<b>124,540,043</b>	<b>114,958,020</b>

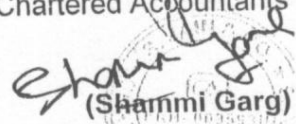
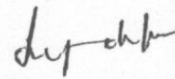
For SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY

As per our Audit Report Attached

Place : Ludhiana  
Date : 12.07.2011

  
Abhishek Gupta  
Administrative-cum-Accounts Officer

  
Dr. A. K. Jain  
Director

For S. Jain & Co.  
Chartered Accountants  
  
(Shammi Garg)  
Partner  
M.No. 095431  
  
Chairman

**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
**(An Autonomous Institution of Ministry of New & Renewable Energy)**  
**Kapurthala (Punjab) - 144 601**

PARTICULARS	AS AT 31.03.2011	AS AT 31.03.2010
<b>I CORPUS / CAPITAL FUND</b>		
		<b>SCHEDULE - I</b>
Opening Balance	3,769,155	3,023,105
Less : Excess Provision / Previous year adjustments	-	53,950
Total	<u>3,769,155</u>	<u>3,769,155</u>
<b>II RESERVE &amp; SURPLUS</b>		
		<b>SCHEDULE - II</b>
Opening Balance	307,000,000	237,000,000
Add : Grant Received from MNRE during the Year	40,000,000	70,000,000
Add: Grant received for BIO DIESEL Production Project	4,413,000	-
Total	<u>351,413,000</u>	<u>307,000,000</u>
<b>III CURRENT LIABILITIES &amp; PROVISIONS</b>		
		<b>SCHEDULE - III</b>
(a) Grant received for BIO MASS Power Production Project	700,000	-
Less: Expenses	375,975	-
	<u>324,025</u>	-
(b) Cheque issued but not presented	7,396,532	260,592
(c) Salary Payable	156,000	192,028
(d) Office Exp Payable	33,060	24,300
(i) Electricity Exp	15,054	16,426
(ii) Telephone & Other Exp.	70,358	-
(iii) Others	8,843	-
(iv) Travelling	<u>12,805</u>	<u>40,726</u>
(e) Audit Fee Payable	2,120	6,000
(i) Internal Audit Fee	7,750	3,500
(ii) Statutory Audit Fee	<u>9,870</u>	<u>9,500</u>
(f) Security	60,000	-
(g) Peda Chandigarh	-	82,040
(h) Godrej & Boyce	300,955	-
Total	<u>8,375,585</u>	<u>584,866</u>

SCHEDULE IV

FIXED ASSETS	GROSS BLOCK		DEDUCTIONS/ ADJUSTMENT		TOTAL COST		DEPRECIATION		NET BLOCK	
	COST AS ON 31.03.2010	ADDITIONS MORE THAN 180 DAYS	LESS THAN 180 DAYS	ADJUSTMENT	AS ON 31.03.2011	UP TO 31.03.2010	FOR THE YEAR	AS ON 31.03.2011	AS ON 31.03.2011	AS ON 31.03.2010
Land	7,500,000	-	-	-	7,500,000	-	-	-	7,500,000	7,500,000
Land & Site Related Dev Works	1,285,066	-	-	-	1,285,066	-	-	-	1,285,066	1,285,066
Electrical Equipments	99,351	-	-	-	99,351	72,658	2,665	75,993	23,988	26,633
Vehicle Car Ambassador	433,594	-	-	-	433,594	370,582	9,456	360,009	53,598	63,042
Furniture & Fixture	663,809	6,100	-	-	669,909	406,697	26,321	433,018	236,691	287,112
Computer/Peripherals	1,506,669	487,900	41,630	-	2,008,199	1,330,338	994,829	1,725,166	284,054	179,333
Library Books	10,282	-	-	-	10,282	8,583	265	9,838	1,444	1,669
Misc Fixed Assets Porta Cabin	487,700	-	-	-	487,700	487,700	-	487,700	-	223,520
SPV Power Plant	2,442,924	-	-	-	2,442,924	2,219,404	223,520	2,442,924	269,398	191,608
Plant & Other Equipment	831,595	185,316	-	-	1,066,911	749,967	47,599	797,525	53,964	89,994
Guest House Assets	193,667	-	-	-	193,667	133,673	5,999	159,673	120,564,000	120,564,000
Civil Works Building & Suilt Up Spaces	120,564,000	-	-	-	120,564,000	6,850	950	1,464	5,398	6,336
Mobile	6,950	-	-	-	6,950	514	-	-	5,150,893	-
Capital Work in Progress	-	5,150,893	-	-	5,150,893	-	-	-	135,428,657	130,298,363
Sub-Total	136,078,507	649,316	5,182,513	-	141,920,356	5,780,144	711,535	6,491,679	130,298,363	129,872,619
Previous Year	135,263,624	-	794,893	-	136,078,507	5,411,005	369,136	5,780,144	92,787,979	-
Expenditure during Construction Period (As per List-B)	136,078,507	649,316	5,182,513	-	141,920,356	5,780,144	711,535	6,491,679	223,216,535	130,298,363
<b>Total (A)</b>										

ASSETS PURCHASED FOR BIODIESEL PRODUCTION PROJECT BUT NOT PUT TO USE	GROSS BLOCK		DEDUCTIONS/ ADJUSTMENT		TOTAL COST		DEPRECIATION		NET BLOCK	
	COST AS ON 31.03.2010	ADDITIONS MORE THAN 180 DAYS	LESS THAN 180 DAYS	ADJUSTMENT	AS ON 31.03.2011	UP TO 31.03.2010	FOR THE YEAR	AS ON 31.03.2011	AS ON 31.03.2010	AS ON 31.03.2010
Flesh Point Apparatus	-	-	579,707	-	579,707	-	-	-	579,707	-
Kinematic Viscometer	-	-	433,709	-	433,709	-	-	-	433,709	-
Mechanical Stirrer	-	-	63,224	-	63,224	-	-	-	63,224	-
Petroleum Density Meter	-	-	1,164,611	-	1,164,611	-	-	-	1,164,611	-
Rotary Vacuum Evaporator	-	-	548,570	-	548,570	-	-	-	548,570	-
Soxhlet	-	-	90,952	-	90,952	-	-	-	90,952	-
Sub-Total	-	-	2,880,773	-	2,880,773	-	-	-	2,880,773	-
Previous Year	-	-	-	-	-	-	-	-	275,728	-
Expenditure on Bio Diesel Production Project during Construction Period (As per List-C)	-	-	2,880,773	-	2,880,773	-	-	-	3,156,501	-
<b>Total (B)</b>										
Grand Total (A+B)	136,078,507	649,316	8,073,286	-	144,801,109	5,780,144	711,535	6,491,679	223,373,136	130,298,363

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**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
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PARTICULARS	AS AT 31.03.2011	AS AT 31.03.2010
<b>V CURRENT ASSETS, LOANS &amp; ADVANCES</b>		<b>SCHEDULE - V</b>
<b>A CURRENT ASSETS</b>		
(a) Cash in Hand	7,374	19,925
(b) Bank Balances		
(i) In Saving Bank A/c	16,834,338	66,339,093
(ii) In Current A/c	1,769,706	-
(iii) In Deposit A/c	49,208,731	8,721,312
Total (A)	<u>67,820,149</u>	<u>75,080,330</u>
<b>B LOANS, ADVANCES &amp; OTHER ASSETS</b>		
Advances Recoverable in Cash or in kind or for value to be received		
On Capital A/c		
Deposit with CPWD	54,850,000	59,297,000
Pre Payments		
M/s Casa, New Delhi	300,000	300,000
M/s Meditab Enterprise	40,950	-
M/s Macro Scientific Works P Ltd	144,776	-
M/s Airport Handling Service, New Delhi	71,750	-
M/s Ankur Scientific Energy Tech. Pvt. Ltd	493,139	-
M/s Chilli H/w Fitting & Boring Works	49,800	-
M/s Dada Motor Ltd.	538,455	-
M/s DeeJay Corporation	784,153	-
M/s Delhi book store	85,492	-
M/s Elementar Analysensystem GmbH	1,854,404	-
EPF Recoverable	199,809	-
M/s Eppendorf India Ltd	1,802,104	-
M/s Fairdeal Agencies	117,392	-
M/s Guru Nanak Iron & Steel Mfg. Co.	26,375	-
M/s Inkar Instruments Pvt. Ltd.	199,091	-
M/s Nova Trading Co.	69,735	-
M/s PEDA Chandigarh	435,000	-
M/s Perkhelmer Singapore Ltd. arh	1,203,098	-
M/s Redlays (England)	693,837	-
M/s Shankar Book Agency Pvt. Ltd.	297,812	-
M/s TERI New Delhi	7,141	-
M/s GodrejBoyc	177,975	-
Securities		
Telephone	2,000	2,000
Advance to Staff		
Others	5,000	10,621
Postal Stamps in Hand	628	16
TDS Recoverable	106,531	50,426
Total (B)	<u>64,364,455</u>	<u>69,660,063</u>
Grand Total (A+B)	<u>132,184,604</u>	<u>134,740,393</u>
<b>VI INTEREST EARNED</b>		<b>SCHEDULE - VI</b>
From Scheduled Banks		
On Term Deposits	4,539,447	1,754,633
On Saving A/c	4,433	1,898,835

**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
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**CAPITAL WIP AS PER RECEIPT & PAYMENT A/C**

LIST-A

PARTICULARS	AS ON 31.03.2011	AS ON 31.03.2010
Total Capital Expenditure during the year as per List-B	51,070,466	29,345,006
Less : Expenditure done by CPWD during the year	43,239,000	25,419,000
Less : Depreciation during the year	711,535	369,139
Less : Outstanding Liabilities at the end of Year	595,028	324,294
<b>Balance</b>	<b>6,524,903</b>	<b>3,232,573</b>

**STATEMENT OF EXPENDITURE DURING CONSTRUCTION PERIOD**

LIST-B

PARTICULARS	BALANCE AS ON 31.03.2010	ADDITION DURING THE YEAR	BALANCE AS ON 31.03.2011
Architect Fees	5,474,820	-	5,474,820
Meeting, Seminars, Workshop & Conference	2,123,768	230,714	2,354,482
Misc & Unforeseen Exp	56,521	906	57,427
Office Exp	1,869,349	934,316	2,803,665
Land & Site Related Development Work	27,202,070	43,239,000	70,441,070
Printing & Publications	514,954	60,717	575,671
Rentals, Hiring of Prof. Services	990,432	289,462	1,279,894
Repair & Maintenance	20,012	105,976	133,988
Salaries	8,020,722	5,013,691	13,034,413
Inauguration Exp	32,296	-	32,296
Rent	352,000	-	352,000
Transport Expenses & POL	466,211	144,963	611,174
Travelling Exp	548,455	72,211	620,666
Visiting Faculty/Experts/Consultants	2,000	14,629	16,629
Annual Maintenance Exp	18,235	-	18,235
Depreciation	5,780,144	711,535	6,491,679
Bank Charges	2,156	473	2,629
Horticulture Expenses	-	251,873	251,873
<b>Total</b>	<b>63,482,145</b>	<b>61,070,466</b>	<b>104,552,611</b>
Less: Income Received	-	53,893	53,893
Less Expenses overbooked in earlier years	455,000	-	455,000
Less Interest Received during the year	6,711,860	4,543,880	11,255,740
<b>Balance</b>	<b>46,315,205</b>	<b>46,472,693</b>	<b>92,787,978</b>

**STATEMENT OF EXPENDITURE FOR BIODIESEL PRODUCTION PROJECT DURING CONSTRUCTION**

LIST-C

PARTICULARS	BALANCE AS ON 31.03.2010	ADDITION DURING THE YEAR	BALANCE AS ON 31.03.2011
Manpower (Salaries)	-	99,000	99,000
Contingency, Consumables, office material	-	174,832	174,832
Travel Expenses	-	1,896	1,896
<b>Balance</b>	<b>-</b>	<b>275,728</b>	<b>275,728</b>

**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
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Kapurthala (Punjab) - 144 601

**VII SIGNIFICANT ACCOUNTING POLICIES & NOTES ON ACCOUNTS**

**SCHEDULE - VII**

**1 ACCOUNTING CONVENTION**

The financial statements are prepared on the basis of Historical Cost Convention in accordance with the generally accepted accounting principles and on the accrual method of accounting.

**2 FIXED ASSETS**

Fixed Assets are valued at cost of acquisition inclusive of inward freight, duties and taxes and incidental and direct expenses related to acquisition. The amount capitalized under the account head Civil Work Building & Built up Space and Land & Site related Development work is as per utilization certificate issued by the CPWD.

**3 EXPENDITURE DURING CONSTRUCTION PERIOD**

The expenditure during the construction period of the project, other than the expenditure directly attributable to any specified asset, has been considered under the 'head STATEMENT FOR EXPENDITURE DURING CONSTRUCTION PERIOD' pending allocation to the Fixed Assets of the Society at the time of completion of their installation.

**4 EXPENDITURE OF BIO DIESEL PRODUCTION PROJECT**

The Expenditure of Bio Diesel Production Project are capitalised and it will transfer to SSS-NIRE when project will be finalised and prescribed by the Authorities.

**5 EXPENDITURE OF BIO MASS POWER PROJECT**

The Expenditure of Bio Mass power Project is Utilised and balance amount is shown in the Current Liabilities head as this amount is refundable to MNRE.

**6 DEPRECIATION**

Depreciation on fixed assets has been provided on Written Down Value method as per rates specified in the Income Tax Act, 1961.

**7 GOVERNMENT GRANTS**

Government of India, Ministry of New & Renewable Energy has sanctioned the establishment of Sardar Swaran Singh National Institute of Renewable Energy (SSS NIRE) as an autonomous Institute of the Ministry under the Societies Registration Act, 1860, as per outlay of Rs. 37.686 Crores, out of which Rs. 22.42 Crores are required to be incurred as balance amount during the 11th Plan for establishment phase of the institute. Rs. 17.37 Crores was received upto 31.03.2008. Further, Rs. 2.83 Crores out of interest earned during the previous years had been converted from Capital Fund to Grant-in aid under Capital Reserve in the F.Y. 2004-05 as per the approval of the Ministry of New & Renewable Energy. Government grants of the nature of contribution towards capital cost of setting up projects are treated as Capital Reserve. During the year ended 31.03.2011 a grant of Rs. 4.00 Crores has been received. This makes a total grant of Rs. 34.70 Crores received from Ministry. Following is the year wise detail of Grant released :-

YEAR	GRANT RECEIVED	CUMMULATIVE GRANT
1998-1999	75,000,000	75,000,000
1999-2000	2,000,000	77,000,000
2000-2001	-	77,000,000
2001-2002	10,000,000	87,000,000
2002-2003	20,000,000	107,000,000
2003-3004	30,000,000	137,000,000
2004-2005 (Interest Utilized)	28,300,000	165,300,000
2005-2006	-	165,300,000
2006-2007	-	165,300,000
2006-2007	36,700,000	202,000,000
2007-2008	35,000,000	237,000,000
2008-2009	70,000,000	307,000,000
2009-2010	40,000,000	347,000,000
2010-2011		

Contd....2

**SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY**  
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- Rs.44,13000.00 (Forty Four Lacs Thirteen Thousand Only) received for Bio-Diesael Production Project
- Rs.7,00,000.00 (Seven Lacs Only) received for Biomass Production Project.

**8 FOREIGN CURRENCY TRANSACTIONS**

**List of Foreign Equipments Purchased For Biodiesel Production Project**

Name of Equipments	Currency	Amount	Airport Handling chrgs	Net Amount
Flash Point Apparatus	1046400 JPY	571,522	8,185	579,707
Kinematic Viscometer	9003.92 \$	408,539	25,170	433,709
Mechanical Stirrer	981.60 EURO	58,413	4,811	63,224
Petoleum Density Meter	19303 EURO	1,146,513	18,098	1,164,611
Rotary Vaccume Evaporator	8378.43 EURO	498,570	50,000	548,570
<b>Advance paid for Assets purchase of SSS-NIRE</b>				
Analysen System GMBH	29070 \$	1,854,404		1,854,404
Ultra Low Freezer Model	9006 \$	407,282		407,282
Table Top Centrifuge Model	5626 EURO	357,519		357,519
Incubator Shaker Model	17108 \$	772,692		772,692
Site Readiness Instruction	26800 \$	1,203,098		1,203,098
Biodiesel Preparation Unit	9400 pound	693,837		693,837
	<b>TOTAL</b>			<b>8,078,653</b>

**9 CURRENT ASSETS, LOANS AND ADVANCES**

In the opinion of the management, the current assets, loans and advances have a value on realization in the ordinary course of business, equal at least to the aggregate amount shown in the balance sheet.

**10 TAXATION**

In view of there being no taxable income under Income Tax Act, 1961, no provision for Income Tax has been considered necessary.

11 Fixed assets register has not been maintained by the Society.

12 Rs. 548.58 lacs as balance amount with CPWD as on 31.03.2011 was confirmed/ obtained from them.

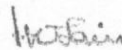
13 The society is contingently liable for a liability of about Rs.0.51 lacs, against bill of Prehari Security & Detective Services Private Limited, Kapurthala, which has not been paid for want of documents required from this agency regarding EPF matter.

14 Schedules are annexed to and form and integral part of the Balance Sheet as at 31.03.2011 and the Income and Expenditure for the year ended on that date.

Place : Ludhiana  
Date : 12.07.2011

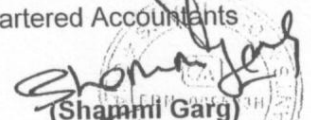


Abhishek Gupta  
Administrative-cum-Accounts Officer

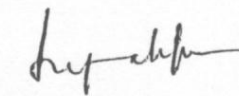


Dr. A. K. Jain  
Director

As per our Audit Report Attached  
For S Jain & Co  
Chartered Accountants



(Shammil Garg)  
Partner  
M.No. 095431



Chairman

**SARDAR SWARN SINGH NATIONAL INSTITUTEN OF RENEWABLE ENERGY**

Appendix - II

**EXPENDITURE DETAIL (HEAD WISE )**

S. No.	HEAD	2006-07	2007-08	2008-09	2009-10	2010-11	Cumulative Total as on 31.03.2011
<b>1</b>	<b>CAPITAL COST</b>						
1.1	Land	-	-	-	-	-	75,00,000
1.2	Land, site & Related Development work	-	-	-	-	-	2,13,90,480
1.3	Civil Work : Building & Built up space	-	4,92,00,000	-	3,60,00,000	3,88,00,000	22,88,14,820
	<b>Sub Total</b>	-	<b>4,92,00,000</b>	-	<b>3,60,00,000</b>	<b>3,88,00,000</b>	<b>25,77,05,300</b>
<b>2</b>	<b>PERMANENT EQUIPMENT</b>						
2.1	Equipment & Instruments (workshop & laboratory)	-	-	-	-	51,50,883	51,50,883
2.2	Office Equipments & Computers (including literature, fixtures, jdgcls & other accessories)	-	-	-	7,12,843	6,90,946	42,73,006
	<b>Sub Total</b>	-	-	-	<b>7,12,843</b>	<b>58,41,829</b>	<b>94,23,889</b>
<b>3</b>	<b>RECURRING EXPENDITURE</b>						
3.1	Salaries	3,60,686	3,40,854	3,55,627	27,14,735	50,13,691	1,28,89,016
3.2	Visiting Faculty/ Experts/Consultants	-	-	-	-	14,629	16,629
3.3	Office Expenses	1,41,601	77,697	66,574	3,85,801	9,34,316	31,23,198
3.5	Annual Maintenance	-	-	-	-	-	39,229
3.6	Transport & POL	18,001	-	5,311	1,18,924	1,44,963	5,49,992
3.7	Printing & Publications	6,080	5,719	4,942	34,916	60,717	2,25,011
3.8	Travel (including international travel)	-	-	-	70,424	72,211	1,93,302
3.10	Library & Documentation	-	-	-	-	-	362
3.13	Mtgs. seminars, workshop & conference	-	-	1,72,789	17,261	2,30,714	24,71,935
3.14	Rentals, Hiring of professional services	11,225	22,000	9,500	9,500	2,89,462	34,25,787
3.15	Unforeseen / Mics.	-	-	-	5,485	-	43,64,452
3.16	Contingencies	-	-	-	-	906	906
3.17	Horticulture Expenses	-	-	-	-	2,51,873	2,51,873
3.18	Repairs & Maintenance Expenses	-	-	-	-	1,05,976	1,05,976
3.19	Add expenditure out or previous cash in hand	-	-	-	-	-	13,088
3.20	Less balance in hand against expenditure	-	-	-	-	-	-23,465
3.21	Less TDS & coverable from M/s.CASA. N. Delhi	-	-	-	-	-	-6,715
	<b>Sub Total</b>	<b>5,37,593</b>	<b>4,46,270</b>	<b>6,14,743</b>	<b>33,57,046</b>	<b>71,19,458</b>	<b>2,76,40,575</b>
	<b>TOTAL</b>	<b>5,37,593</b>	<b>4,96,46,270</b>	<b>6,14,743</b>	<b>4,00,69,889</b>	<b>5,17,61,287</b>	<b>29,47,69,764</b>


  
 RITU SHARMA  
 M. No. 507296  
 Partner  
 Chartered Accountant


  
 15.09.11