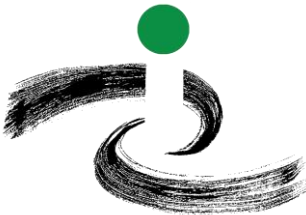


**Annual Report: 2007-2008**



**National Innovation Foundation**

## GOVERNING COUNCIL FOR THE YEAR 2007- 2008

1. **Dr. R. A. Mashelkar**  
Chairperson, NIF, President, Global Research Alliance, Former Secretary, DSIR & DG, CSIR, Govt. of India and Bhatnagar Fellow, NCL, Pune
2. **Prof. Anil K. Gupta**  
Executive Vice-Chairperson, NIF, Ahmedabad and Professor, IIM Ahmedabad
3. **Ms. Elaben R. Bhatt**  
Founder, SEWA, Ahmedabad
4. **Dr. Vijay L Kelkar**  
Chairman, 13<sup>th</sup> Finance Commission, Delhi
5. **Prof. Inderjit Khanna**  
Commissioner, State Election Commission  
Government of Rajasthan, Jaipur
6. **Prof. Kuldeep Mathur**  
Retd Professor, Centre for Study of Law and Governance  
JNU, New Delhi
7. **Dr. T. Ramasami**  
Secretary, Dept. of Science & Technology  
Ministry of Science & Technology, New Delhi
8. **Dr Samir K Barua,**  
Director, Indian Institute of Management, Ahmedabad
9. **Dr. Mangala Rai**  
Director General, Indian Council of Agricultural Research, New Delhi
10. **Prof. Ashok Jhunjunwala**  
The Telecommunication and Computer Networking Group  
Department of Electrical Engineering  
IIT-Madras, Chennai
11. **Ms Ranjana Kumar**  
Vigilance Commissioner  
Central Vigilance Commission, New Delhi

12. **Shri R Gopalakrishnan**  
Executive Director  
Tata Sons, Mumbai
13. **Dr. Subba Rao**  
Finance Secretary, Dept of Economic Affairs  
Ministry of Finance, Government of India, New Delhi
14. **Mr. K P Pandian**  
Financial Advisor, Department of Science & Technology,  
Ministry of Science & Technology, New Delhi
15. Chief Secretary, Government of Gujarat, Gandhinagar
16. Chief Innovation Officer, National Innovation Foundation, Ahmedabad

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## Overview

National Innovation Foundation has created new global benchmarks in scouting, awarding and valorizing grassroots innovations and traditional knowledge practices in the country. To be able to add value and disseminate these innovations and traditional knowledge practices through commercial and non commercial channels, NIF has to pursue many other activities such as: linkages with formal science and technology bodies, dissemination through various media, helping innovators in technology incubation and entrepreneurship, intellectual property protection and creation of the National Innovation and traditional knowledge database/register.

Having signed MoUs with national R&D institutions such as CSIR (Council of Scientific and Industrial Research) and ICMR (Indian Council of Medical Research, NIF is engaged in verifying and validating the claims on herbal entries (90% of the total database) received so far besides other technologies. NIF has also been collaborating with NGOs, NGIs ( Non Governmental Individuals), KVKs and S&T councils of various State Governments in pursuit of its mission. Results from CSIR labs in a few cases have been highly encouraging. Joint Implementation Committee (JIC) formed by CSIR periodically reviews the technologies presented by NIF to four sub-committees dealing with mechanical, energy, food processing and pharmaceuticals, and herbal taking the value addition work forward.

## Way Forward

The year under report has been quite productive due to initiation of several new programmes and models for scouting green grassroots innovations. The sixth biennial campaign received around 2948 entries including about 10711 practices and another few thousands under process, 50 patents were filed for various innovations and VARD and BD support was given to 83 individual projects. NIF is also focusing and fostering new linkages with industry and DST, GOI and CSIR, ICMR etc., for additional resources and congruent projects. Over the years, meeting increasing expectations from thousands of innovators added every year poses the biggest challenge. With the annual budget going down in real terms, and scope of activities and expectations increasing many times presents a grim situation. Will thousands of knowledge providers become frustrated or shall we augment the resources of NIF considerably and further expand its capacity to rise to the occasion, is the issue facing us.

## Yearly Brief

**Children Creativity Mission - Ignite:** With the initiative of Gaiety 'n' Gains, a PR Event firm in Chennai, Ignite - the children innovation campaign was launched on 07 August, 2007. More than 100 students participated in the final competition

and three teams received prizes for excellent presentation of Ideas. The final presentation was organized at IIT Madras and faculty from IITM also helped in critically appraising some of the technologies. It has been planned to replicate the model of Ignite across the country in association with CBSE and creating Honey Bee Creativity and Innovation clubs in each and every school of India.

**North East and J&K Activities:** A workshop in Manipur was scheduled in June, 2007 in which local innovators from the region participated with their live models. The story was covered by The Chicago Tribune and boosted the morale of the innovators of the region. J&K team of Honey Bee Network is also scouting hidden talent with full vigor with the help of Srinagar University. A team of four local youths (including one innovator) has been formed for the purpose.

## **Shodh Yatras**

Honey Bee Network has been organizing Shodh Yatras or “the journey of exploration” since 1998 –this is done twice in a year. Popular for the last 10 years, it involves a walk over a week across varying landscape and hamlets, about 15-20 Kms a day, scouting for innovations, rewarding the local creativity and documenting the innovations and practices encountered on the way. Biodiversity contests are also organized among children and recipe contest among women.

### **19th Shodh Yatra –from June 20th to 27th, 2007 Anantnag District, Kashmir**

The 19th Shodhyatra was conducted from June 20<sup>th</sup> to 27<sup>th</sup>, 2007 in the Anantnag District, Kashmir. The areas covered include Quazigund, Swath Sadiwara, Verinag, Nagam, Batagund, Bragam, Kreri, Lisser Quazigund, Kokernag, Shangas, Utrusoo, Matan, Anant Nag etc. During the Shodh Yatra interactions with local communities, school children, road side mechanics, herbalists and others in AnantNag district ere very educative. In many schools, functions had not been held for last 16-18 years. In the shops, one did not find many products made in Kashmir. There were teachers educated up to Ph.D on contractual salaries of a few thousands rupees in primary schools. Alineation was writ large all around and at the same time the affection they showed towards the Shodh Yatris was unprecedented. Several innovators were honoured.

### **20th Shodh Yatra: from Dec 25, 2007 to Jan. 02, 2008, Purulia and Patamda to Bankura, West Bengal**

The 20<sup>th</sup> Shodh Yatra, conducted in the drought prone Purulia and Banura region of West Bengal and Patamda region of Jharkhand brought to light the ingenuity, knowledge practices and socio-cultural richness of the Santhals and local tribal and other communities. While cultural creativity wa smuch richer in Jharkhand and puruliya, the technolgicaly, the region had not made as much headway. There were several innovative technologies found during the yatra some of which are being supported.

## **NIF Activities**

### **Scouting and Documentation**

#### **a. Fifth Campaign**

For the fifth national competition NIF has mobilized more than 35,000 innovations and traditional knowledge practices mostly provided by the Honey Bee network collaborators. Sizeable number of the entries is from women knowledge holders.

### **Status of entries of Fifth competition**

Table no. 1 gives a state wise list of entries received during 5<sup>th</sup> competition. It is to be noted that this time NIF has received the highest number of entries.

**Table 1**

<b>Direct Entries Received at NIF</b>	<b>834</b>
---------------------------------------	------------

<b>Through Honey Bee Network collaborators in different States and in Shodh Yatras</b>	<b>No. of practices</b>
Andhra Pradesh	73
Bihar	3900
Chandigarh	11
Chattisgarh	188
Delhi	25
Daman	1
Goa	6
Gujarat	5228
Haryana	42
Himachal	7
J & K	112
Jharkhand	1023
Karnataka	255
Kerala	9597
Madhya Pradesh	96
Maharashtra	370
North East (Arunachal Pradesh, Assam, Manipur, Meghalaya, Nagaland, Sikkim, Tripura, )	1127
Orissa	707
Punjab	80
Pondicherry	21
Rajasthan	1042
Uttaranchal	19
West Bengal	233
Tamil Nadu	1947
Uttar Pradesh	8347
<b>TOTAL</b>	<b>35291</b>



**b. Sixth Campaign**

The campaigning for the sixth biennial competition has started from 1st February 2007 and will end on 31<sup>st</sup> December 2008. So far NIF has mobilized more than 10,000 practices.

**c. Scouting and Documentation through students**

Successful attempts have been made to mobilize students in scouting and documentation. In association with Directorate of Public Instruction (DPI), Government of Kerala, a specific competition was organized for the student members of district science clubs under DPI for scouting grassroots innovations and Traditional Knowledge. To sensitize the participants about this, an orientation workshop was organized in May 2007 for the teachers and science club leaders. They were also taken on a small field trip to a few SHG groups for hands on experience of scouting and documentation under the guidance of NIF and Peermade Development Society representatives.

**d. Detailed documentation by involving students**

Efforts have been made to involve the students in the detailed documentation process. Students of various business and technical schools were given the assignment of detailed documentation of entries along with value addition and business plan development work.

**e. Strengthening the network activities in various states**

Special efforts have been taken to strengthen the Network activities in various states across the country. Workshops of Innovators for linkage with formal sector and for launching products, creating awareness among students and other stakeholders were organized in various states for promoting network activities.

Development Research Communication and Services Centre (DRCSC), Kolkata, and Field Research Laboratory, Leh have sent proposals to join hands with NIF and help in Scouting and Documentation activities in West Bengal and Ladakh. NIF released Rs. 31,80,748/- (thirty one lakh eighty thousand seven hundred forty eight rupees only) to different collaborators all over the country during the year to facilitate different scouting and documentation activities. Special efforts were made during the year to reach out to those places where our network has not been strong, especially in far flung areas like Kashmir and North East.

**Manipur:**

NIF, with the help of its staff at IIT Guwahati has enhanced activities in Manipur. With active participation of local groups and institutions, NIF successfully organized a two-day workshop in Imphal in July 07, where several hundred people participated. The workshop was sponsored by DSIR and supported by Manipur Science and Technology Council (MASTEC). A special session was also organized in the workshop where the innovators got an opportunity to interact with the experts from the formal sector.

An initiative for starting the scouting work was also taken up in Tamenglong and Ukhrul districts of Manipur. In Tamenglong NIF tied up with one local conglomerate of traditional medicinal practitioners and in Ukhrul with

NECRMP/IFAD, which mobilized practitioners from four subdivisions of the district, and 600 practices were collected.

**Assam:**

The Pancharatna Gramya Bikash Kendra (PGBK), a Nalbari based NGO, having coverage in five districts of Assam, was approached to initiate some help in scouting. Around 3500 (three thousand five hundred practices) TK practices were collected through their members.

**Tripura:**

Five PG students of Rural Management, Tripura University, collected about 200 TK practices and local innovations from Tripura.

**Tamil Nadu:**

NIF in association with SEVA Madurai organized state level network meeting in the month of August 2007. Various strategies of building network activities have been discussed in the meeting.

**Andhra Pradesh:**

The network activities in Andhra Pradesh have got a special impetus after the active involvement of Brig Ganesham, the regional collaborator in Andhra Pradesh. Grameena Pragathi Exhibition was organized in June in Prakasam District where rural technologies were displayed, games and competitions organized. The event was witnessed by a large number of people in addition to Chief Minister and Country Representative of FAO. A state level meeting of innovators was organized on July 9, 2007 and several regional institutions including NIT, Warangal were invited on the occasion. SCAI chapter was also formally launched in Andhra Pradesh on the same day.

One of the most remarkable achievements of Honey Bee Network – AP has been a technology transfer and incubation agreement between Mr. Linga Brahaman, innovator of gas iron for pressing clothes and Mr. Satya Narayanan, an innovator himself.

**Kerala:**

After the successful mobilization of knowledge practices from women knowledge domain, NIF initiated product and enterprise development through a participatory process. Similar practices were pooled together and products were launched in July.

**Gujarat**

The activities in Gujarat have been further strengthened with the involvement of students. The summer scout program initiated by SRISTI has yielded fruitful results. The students documented around 8000 practices during their summer vacation.

In addition, hundreds of ideas and recipes for food processing were mobilized at the Traditional food Festival Organized by SRISTI , viz. Satvik2007 at iima in December, 2007. Small booklets for farmers and homemakers were published

and shared at Satvik. Large number of innovators and organic producers earned more than 25 lacs rupees in four days of festival.

Science toppers students from different districts of the state visit sristi and iima every year for orientation in innovation contributed innovative Ideas.

### **Jammu and Kashmir**

The Shodh Yatra organized in Kashmir in June generated tremendous response and numerous people came forward to join as volunteers in the mission to unearth creative talent from the valley. The Honey Bee, SRISTI and NIF team got overwhelmed by the support given by the people. NIF hopes that the initiative is going to give good results in the long run.

### **Bihar**

Idea competition was organized a meeting organized in Parihar Block, Sitamarhi District, Bihar by Dr. Ambedkar Seva Sansthan, Siwan. On the spot Idea contest was organized and prizes were given to the students. Pratham, an NGO with headquarter in Mumbai was also engaged in organizing the event and has promised to support the initiatives in the area. Principal and teachers of Shri Gandhi High School, Parihar have also shown keen interest in the activities of NIF. Shri Azhar Hussain Ansari, Scout NIF in Motihari helped in dissemination of information about the activities of the NIF.

### **Jharkhand**

A one day orientation workshop on scouting strategies was organized by Social Upliftment Trust, Charhi, Hazaribagh in January 2008. NIF activities were explained to them, and the problems faced by them in the field, along with the strategies to improve S&D and follow-up of 20th SY were discussed.

### **West Bengal**

A one day S&D orientation workshop was organized in Development Research Communication and Services Centre in March, 2008 where more than forty five participants from different organizations like DRCSC, NPMS, Swarnirvar, Kajla Kalyan Samiti, Basudha, Janakalyan Samiti, Sundarika Potrika, Alauddin Vikas Kendra, Chikitsa Prashikshan aur Gaveshana Kendra participated along with the scouts from West Bengal and SCAI team members participated. Detailed documentation, importance and methods of dissemination, village knowledge register etc., were discussed. The follow up of West Bengal Shodhyatra was also discussed in the meeting.

### **Arunachal Pradesh**

A regional Seminar-cum-Workshop on “Enhancing the Traditional Knowledge & Grassroots Innovations: Exploration and Consensus on Prior Informed Consent (PIC) and Knowledge Networking among Various Stakeholders” was organized at Pasighat in Arunachal Pradesh with the help of Honey Bee collaborator in Arunachal Pradesh in March, 2008.

Participants were told about the mandate, philosophy, approach, methods of work of NIF for searching innovations, the better modalities for promoting traditional knowledge and innovations in Arunachal Pradesh. In-depth discussions on prior informed consent (PIC) and its applicability on traditional knowledge and innovations were also held. The workshop was attended by herbal healers, innovators, researchers and local community leaders. Two representatives from NIF also attended the workshop.

**f. Shodhyatra**

NIF supported SRISTI and Honeybee Network in organizing the 19th Shodh Yatra in Anantnag, Kashmir from June 20th to 27th, 2007 in which around sixty Shodh Yatris participated from all over the country. The group consisted of representatives from Honey Bee Network, volunteers, academicians, journalists, and representatives of NGOs, government employees, innovators, farmers and students

It started from Government Boys High School, Quazigund and ended in Boys Degree College, Khanabal covering a distance of 132 kilometers traveling across 34 villages.

During the Shodhyatra, more than fifty students, herbal healers and centenarians were honored. More than a thousand practices were scouted and herbarium of more than one hundred and twenty plants found along the Shodh Yatra route was prepared.

The 20<sup>th</sup> Shodhyatra was organized in West Bengal from December 26, 2007 to January 2, 2008. The Shodhyatra started simultaneously from Bagmundi (Purulia), Patmada (East Singhbhum, Jharkhand), Jayachandi Hills (Purulia) on 26<sup>th</sup> December 2007. The three routes converged at Bhagabandh (Purulia) and the Yatris together proceeded towards Basudha, Binod Bati (Bankura), the culmination point. Over a hundred people from different walks of life covered a distance close to three hundred kilometers.

During the entire Yatra, more than two thousand traditional knowledge practices were documented in several categories like herbal medicine for human health and veterinary along with new plant varieties and various innovations.

**NIF Cell-ASSAM**

**Scouting and Documentation**

**Documentation for the 4<sup>th</sup> Competition**

Altogether NIF CELL-ASSAM has documented more than 190 entries (mechanical innovations as well as TKs) covering 20 districts in six states (Assam, Manipur, Nagaland, Mizoram, Arunachal and Meghalaya).

### **Scouting and Promotional Activities**

NIF CELL-ASSAM has made several visits to different districts in different states of the region for promotional as well as scouting activities. Some of the notable visits were:

Phek, Longlen, and Dimapur of Nagaland were conducted in collaboration with NEN (North Eastern Network), Karbi Anglong district of Assam through North East Development Society (NEDS), a development based NGO working in the Northeast region and Center for Rural Development (CRD); Kokrajhar and Bongaigaon district of Assam to scout new innovations or TKs and also to do follow up work on some of the innovations/TKs from the fourth competition.

To expand activities in other parts of the NE, for scouting and documentation, extensive field visits were made in Meghalaya, Manipur and many districts of Assam. Students of Assam Central University, Silchar, Rajiv Gandhi University, Arunachal Pradesh, Sibsagar and Jorhat and Bongaigaon districts, Manipur University were involved in scouting innovations and TK.

### **Expansion of NIF Innovation network**

Translation of PIC, Entry Collection form, etc: Retranslation of the PIC, entry forms and the questionnaires to Bengali and Assamese version in local language, understandable to the rural people were made.

Various NGOs were involved in Manipur for scouting, documentation and dissemination of traditional knowledge and grassroots innovations and include Rural Development Organization (RDO), Lamshang, Imphal: Thy Sustainable Front (TSF), Imphal, Organization for Rural Improvement (ORI), Nambol, Manipur: Help and Development Organization (HDO), Imphal: and Kege Apunba Lup, Moirang and North Eastern Community Resource Management Projects (NECRMP).

### **Workshops/Seminars/Presentations**

The Assam cell of NIF attended various seminars and workshops and also organized many small workshops and presentations at villages in different parts of the North East . The first regional innovators' workshop cum exhibition of grassroots technologies was held in Imphal, with financial assistance of DSIR.

Some other workshops organized by the team were: Workshop at North East Network (NEN), Chizami, Nagaland, 25th April 2006, Workshop at Phom Baptist Christian Association (PBCA), Longleng, Nagaland, 27th April 2006, Innovators workshop cum exhibition of grassroots' technologies, Imphal 27th - 28th July 2007, Exhibition on Grassroots Innovations of Northeast, NEDFI-Haat, Ambari, Guwahati 8th - 10th Aug 2007. Sponsored by NEDFI and RUTAG-NE.

**g. New Initiatives in Scouting and Documentation**

**1. Mobilizing women's knowledge and establishing knowledge based enterprises by pooling the best practices**

In association with regional collaborator Peermade Development Society, a massive campaign through women self help groups was initiated to mobilize knowledge, innovations and practices among women. In this exercise more than eight thousand practices were documented in the field of cosmetics, nutraceuticals, health care, cooking etc., from Idukki district in Kerala. Though many were common practices, this exercise has proved that there is an immense potential among the women members of SHGs to convert their knowledge into products and viable enterprises.

Initially four products having commercialization potential were taken up for enterprise development. All knowledge holders of the four products were constituted as a single SHG named Amala and SSI registration was done. Nutrient supplement, baby massage oil and Incense stick are the products selected for the initial intervention. The products were tested and standardized. All products are available in the market under the brand name SAHYA.

The products were formally launched on August 11, 2007 in an auspicious function, attended by large number of women including the innovators. This Idukki model will be replicated in other districts of Kerala and horizontal markets would be established by linking one group with the other.

For a start, MVIF (Micro Venture Innovation Funds) has invested a risk capital of Rs. 95,000 in Amala Enterprise. NIF wishes to make investment of risk capital in creating markets of these products. The model will require a flexible approach of enabling group as well as individuals (local or external), women as well as men entrepreneurs. This will lead to formation of women based village knowledge registers as well as entry of new knowledge based products in the horizontal (women to women) or vertical (urban consumers and rural producers) markets.

**2. Scouting fellowships**

There are been a few fellowships started for innovators, scouts, and research students to enable them to go to their field and collect traditional knowledge practices and innovations. This fellowship covers their travel expenses, stationary and packaging and forwarding of the data. These fellowships have been given to different individuals in Jammu and Kashmir, Uttarakhand, West Bengal and Chattisgarh. They are provided all the necessary guidance from NIF.

**3. Kite Festival**

*Uttarayan* is the kite flying festival in Ahmedabad, which is celebrated widely. We flew kites with messages written on them asking people to contact NIF if they knew of any innovations. 5000 such kites were distributed. The idea behind it was to make our message reach at various places along with popularizing innovations through the festival.

#### **4. IGNITE '07**

IGNITE '2007, a regional competition for students from Tamil Nadu, Andhra Pradesh, Karnataka, etc., was organized at IIT Madras on 7-8 August, 2007 with the help of a local partner, Gaiety and Gains. The student award winners from previous NIF award functions were invited on the occasion to interact with other students. An exhibition was also organized on the occasion. Many faculty members and the entire class of product design students of IIT Madras participated in the workshop. Out of about 194 entries, 49 student teams were invited to present their innovations before the jury.

#### **Foundation Day of NIF and Honey Bee Network Meeting, Ahmedabad**

On February 28<sup>th</sup>, NIF celebrated its Eighth Foundation Day. On this occasion, Honey Bee Network annual meet was also organized, where HBN collaborators from different parts of the country gave presentations on the work done by them in the preceding year. It was a very healthy exercise where the members shared their experiences, discussed the strategies for strengthening the network and increasing teamwork and efficacy in all activities undertaken by the network members.

A series of workshops was organized by various collaborators in their respective areas of operation with the help of NIF to strengthen the network and generate awareness about NIF activities.

#### **Visits at NIF**

Ms Ranjana Kumar, Chief Vigilance Commissioner, Government of India, visited NIF on February 8<sup>th</sup>, 2008 and reviewed promising technologies received by NIF. She guided the NIF team in identifying the innovations with good potential and agreed to help forge linkages with institutions and organizations to promote them.

Dr. R A Mashelkar, Chairperson NIF; President, Global Research Alliance; Bhatnagar Fellow, NCL visited NIF in the morning of 29<sup>th</sup> March 2008 and met the staff. His visit was deeply appreciated by the staff as it gave them an

opportunity to share technology incubation experiences with him and learn from his insights. Dr. Mashelkar praised the efforts of the young team at NIF and motivated them to renew their commitment to serve the grassroot innovators.

Other visitors in the year included Prof Kuldeep Mathur, GC member, NIF, Prof. K. Kannan, Vice-Chancellor, Nagaland University, Dr D Dutta, Scientist, DST, Mr. Debashish Goswamy, Honeywell Technologies, Dr P Pushpangadan, Dr. Shashi Bala Singh, Director, FRL & Mr. Dorji from FRL, Shri S Sen Sharma, Scientist, CMERI, Durgapur, Shri P M Chauhan, Addl Director & Shri B L Sharma, Agri Research Officer, Govt of Rajasthan, Dr Ramesh Shukla, Chairman, Technical Board of Appeal European Patent Office, Mr. James A Larson, H S M & L, Minneapolis, USA, Prof Dr Cornelius Herstatt, Hamburg University of Technology, Prof.Hugo Tschirky, ETH, Zurich, and Mr Max Bond from Japan

## Value Addition Research and Development

### A. Herbal-Agricultural activities

#### Initiation of Validation trials:

The improved, high yielding varieties employed by Shri Prakash Singh Raghuvanshi, , Shri Jai Prakash Singh (wheat, paddy, pigeon pea and mustard ) and Mahavir Singh Arya (Wheat and mustard) were supported for validation trials. Shri Sundaram Varma and Shri Paresh Pandya were provided with necessary financial assistance for validation of plant varieties (**Table 3**).

**Table 3: Initiation of Validation trials:**

S.N.	Validation/Evaluation	VARD support
1.	Procurement of seeds samples of wheat and mustard varieties from farmers place	Rs 1,000/- given to Shri Prakash Singh Raghuvanshi for procurement of seed material for trials
2.	Validation of three mustard and nine wheat varieties at multi locations in Durgapur district of Rajasthan	VARD support of Rs 17,000/- is sanctioned to Shri Paresh Pandya for data collection of three mustard and nine wheat varieties
3.	On-farm validation and data collection of plant varieties developed by Shri Prakash Singh Raghuvanshi	VARD support of Rs 15,000/- is given to Shri Prakash Singh Raghuvanshi of Tadiya village, Dhandhorpur Post, Varanasi, U.P.
4.	On-farm validation and data	VARD support of Rs 15,000/- is given to



	collection of five mustard and five wheat varieties developed by Shri Mahavir Singh Arya	Shri Mahavir Singh Arya of Sikar district from Rajasthan.
5.	Evaluation of quality parameters from wheat, groundnut and mustard varieties	- Testing of oil content, peroxide value and Free fatty acid of three mustard and one groundnut variety - Testing of protein, Gluten and Carbohydrate content of twelve wheat varieties
6.	Field trials and experiment for plant varieties (Wheat, Gram and Groundnut) and plant protection practices through NIF and GIAN (North) in Sikar district of Rajasthan	VARD support of Rs 73,000/- is sanctioned to Shri Sundaram Varma for: Evaluation and field trials of plant varieties received by NIF Testing and validation of plant protection practices received in fourth and fifth round competition.
7.	On-farm validation and data collection of plant varieties developed by Shri Jai Prakash Singh	VARD support of Rs 15,000/- is given to Shri Jai Prakash Singh of Tadiya village, Dhandhorpur Post, Varanasi, U.P.

#### Field survey and diffusion studies for plant protection practices:

Different practices for insect-pest control, disease control and weed control in crop plants were received from all over Gujarat. A detailed survey and diffusion study was conducted for plant protection practices using *bajra* flour as a main ingredient and found disseminated widely in twenty seven villages of nineteen blocks (*taluka*) in eight districts of Gujarat (**Table 4**).

**Table 4: Different practices followed for control of insect-pests, disease and weed in several places:**

Sl. No	Purpose	Method of practice	District	Village	Diffusion (Followed by)
1	Disease & Pest control	Dusting of Bajra flour	Amreli	Lakhpadar	40% farmers
2	Pest Control	Dusting of Bajra flour	Bhavnagar	Mota Asarna	80 % farmers
3	Pest Control	Dusting of Bajra flour	Bhavnagar	Nana Jadra	6 to 7 farmers
4	Pest Control	Dusting of Bajra flour	Bhavnagar	Viridi	10% farmers
5	Weed Control	Use of straw of Bajra & wheat	Bhavnagar	Sosiya	50-60% farmers
6	Pest Control	Spraying of Bajra solution	Bhavnagar	Vanot	20% farmers

7	Pest Control	Dusting of Bajra flour	Bhavnagar	Mota Acharna	80% farmers
8	Pest Control	Dusting of Bajra flour	Bhavnagar	Viridi (Morla)	30% farmers
9	Pest Control	Spraying of Bajra solution	Bhavnagar	Pachhegam	30% farmers
10	Pest Control	Bajra flour and butter milk for control of Aphids in Cotton	Ahmedabad		10% farmers
11	Pest Control	Bajra flour and butter milk for control of Aphids in Cotton	Ahmedabad		10% farmers
12	Pest Control	Dusting of Bajra flour	Junagadh	Rafala	25% farmers
13	Disease control	Dusting of Bajra flour	Junagadh	Akala	20% farmers
14	Pest Control	Spraying of Bajra solution	Mehsana	Ajrampura	10% farmers
15	Pest Control	Dusting of Bajra flour	Mehsana	Kolad	10% farmers
16	Pest Control	Spraying of Bajra solution	Rajkot	Nani Parwadi	40% farmers
17	Pest Control	Spraying of Bajra solution	Rajkot	Jetpur	40% farmers
18	Disease control	Dusting of Bajra flour	Surendranagar	Pipava	All farmers (100%)
19	Disease control	Dusting of Bajra flour	Surendranagar	Ovangadh	40% farmers
20	Disease control	Dusting of Bajra flour	Surendranagar	Dhajala	30% farmers
21	Pest Control	Dusting of Bajra flour	Surendranagar	Chobari	40-50% farmers
22	Pest control	Dusting of Bajra flour	Surendranagar	Dhajala	40% farmers
23	Pest Control	Spraying of Bajra solution	Surendranagar	Hampar	40-50% farmers
24	Weed Control	Dusting of Bajra flour	Surendranagar	Gujarvedi	40-50% farmers
25	Disease control	Spraying of Bajra solution	Surendranagar	Godavri	40% farmers
26	Pest Control	Flour of Bajra	Surendranagar	Mokasar	40-50% farmers
27	Pest Control	Flour of Bajra	Surendranagar	Korda	40% farmers

**Joint Implementation Committee [JIC- Sub-committee meeting] (CIMAP-Lucknow):**

**Table 5: List of ten agricultural practices being validated at IHBT-Palampur**  
Ten plant protection practices were presented in the JIC sub-committee meeting held at CIMAP-Lucknow on October 29, 2007. These practices were further sent to IHBT- Palampur along with the plant samples in sufficient quantity for

<b>Sr. No.</b>	<b>Innovator's Name</b>	<b>State</b>	<b>Title</b>
1.	Naranbhai Shamjibhai Solanki	Gujarat	Herbal formulation for control of pest complex in cotton
2.	Ramjibhai Bhemaji Parmar	Gujarat	Herbal formulation for controlling caterpillar and sucking pests in field crops
3.	Pandayabhai Gajubhai Pawar	Gujarat	Use of <i>Aegle marmelos</i> leaves and fruits to control leaf curl in chilli
4.	Smt. Janki Devi	Bihar	Banprash ( <i>Paederia foetida</i> ) and Kanail ( <i>Thevetia peruviana</i> ) for control of insect-pests of crop
5.	Mohammad Sahid Anwar	Bihar	Use of <i>Cassia auriculata</i> leaves to control of ash weevil ( <i>Mytillocerus subfasciatus</i> ) in Brinjal ( <i>Solanum melongena</i> L.) crop
6.	Amrutbhai Becharbhai Patel	Gujarat	Use of Pigeon Pea seeds for Control of Hairy Caterpillar in Field Crops
7.	Dinesh Urav and Mr. Padmanava Dahury	Jharkhand and Orissa	Use of dried maize stalks for control of insect pests in paddy
8.	Jadubhai Kurjibhai Savaliya	Gujarat	Use of <i>Clerodendrum</i> , <i>Aristolochia</i> , <i>Azadirachta</i> and <i>Enicostemma</i> to control cotton pest
9.	Devji Jivabhai Koli	Gujarat	Use of poultry litter for control of Tikka disease in groundnut

possible validation (Table 5).

**Table 5:**

**Patent filing for Plant Protection practices:**

Patent searches were made for the practices for control of plant diseases, sucking pests and caterpillars. It was found that six practices were unique and patent filing was done (Table 6).

**Table 6: Patent filing for Plant Protection practices**

Sl. No.	Plant protection practices	Innovator and State	Novelty claims
1)	Use of fruit sap of <i>Aegori (Balanites aegyptica)</i> and <i>Muji (Dyospyros spp)</i> for control of white flies, catterpillars and aphids in cotton	Ramaji Bhemaji Parmar, (Gujarat)	Use of <i>Dyospyros cordifolia</i>
2)	Herbal growth promoter for paddy crop using <i>kalar (Blumea eriantha)</i> leaf extract	Kanubhai Hansjinh Chaudhary (Gujarat)	Use of <i>kalar</i> leaf extract
3)	Use of Ashoka ( <i>Polyalthia longifolia</i> ) tree fruits for control of larval pests	Rahul Kumar Patel (Bihar)	Used of Ashoka tree fruits
4)	Use of banprash ( <i>Paederia foetida</i> ) and Kaner ( <i>Thevetia peruviana</i> ) leaves extrat for insect control in crops	Janki Devi (Bihar)	Use of <i>banprash (Paederia foetida)</i>
5)	Herbal formulation for increasing spiciness in chilli	Jolly George (Kerala)	Use of <i>Panal (Glycosmis pentaphylla)</i> leaves
6)	Herbal control of mosaic disease and insects pests in paddy	Dinesh Urav & Padmanava Dehury (Bihar and Orissa)	Use of maize stalks

### Herbal agricultural pesticide product launch

Six herbal pesticides viz., SRISTI Krushak, SRISTI Rakshak, SRISTI Shastra, SRISTI Shakthi, SRISTI Prayas and SRISTI Suraksha were licenced to Matrix Pvt Ltd. The agricultural pesticides were tested against leaf curl, cotton pest, sucking pest, shedding of flower, termite infestation and promoting plant growth. These products were made with the help of Shri. Popatbhai Rupabhai Jambucha, Smt. Arkhiben Mithabhai Vankar, Shri. Becharbhai Samalbhai Devaganiya, Shri. Banidan Mavaji Gadhvi, Shri. Gemal Singh Rana, Shri. Rajnikant Patel, Shri. Karsanbhai Manjibhai Chaudhari, Shri. Rajubhai Panjiram Chaudhari and many

other communities and innovators. The innovators were honoured and given cheques for their innovations that contributing to the success of the product.

## B. Herbal - Human Health activities

Herbal products developed for human health through projects linked with industries are covered in **Table 8**

**Table 8: Human Health Project**

S.No.	Name of the Project	Organization/Partner	Brief report
1	Analytical report of baby food (nutrient supplement) (Kerala database)	Rasayan Laboratories, Anand	Calcium (0.41%), phosphorus (0.70%) protein (7.48%) and iron (10.12%) content were evaluated.
2	Analytical report of baby food (nutrient supplement) (Kerala database)	Rasayan Laboratories, Anand	Calcium and iron content were found to be on the higher side.
3	Analytical report of fruit drink (Gujarat)	Rasayan Laboratories, Anand	Sodium (0.45%), Carbohydrate (20%), Vitamin A (0.64%), Vitamin C (57 %), Calcium (3%) and iron (83%)
4	Analytical report of biscuits (NIF database)	Rasayan Laboratories, Anand	Protein (8.62%), Iron (37.26%), phosphorus (89.93%) and Sodium (268.32%)
5	Hepatoprotective herbal formulation	LM College of Pharmacy, Ahmedabad	The result showed that the hydroalcoholic extract of the formulation is effective against hepatic injury induced by carbon tetrachloride.
6	Anti-arthritic herbal formulation	LM College of Pharmacy, Ahmedabad	Hydro alcoholic extract (dose of 700mg/kg of extract) of polyherbal formulation exhibited inhibition property at 3rd and 4th hour respectively in carrageenan induced inflammation.
7	Anti-hypertensive herbal formulation	LM College of Pharmacy, Ahmedabad	Result showed that the hydroalcoholic extract of polyherbal formulation significantly reduced Systolic BP after administration of 300mg/kg dose for three weeks.

## **C. Herbal - Animal Health activities**

### **Linkages with Institutions for promoting validation trials:**

A National Students Project Competition on Value Addition to Grassroots Innovations & Traditional Knowledge (GRI's) was organized during National Symposium on Innovations in Biotechnology: Entrepreneurial opportunities and IPR on 23rd to 25th October, 07. About 45 proposals submitted for National Student Project Competition on Value Addition to Grassroots technologies were evaluated.

Proposal from Veterinary college and Research Institute (VCRI), Namakkal, TANUVAS was obtained for evaluating various poultry products. Clinical efficacy of the unique drug for mastitis, the first ever herbal intra-mammary infusion along with standardization of dose rate for an unique herb on Retention of placenta were completed with the voluntary support from Animal Husbandry Department, Pondicherry. The linkage with various organizations and departments in Panjrapole in Mehsana and Ahmedabad district, Gujarat enabled to employ animal population for various toxicological studies.

Evaluation of herbal drugs for curing ailments like silent estrus in buffaloes (Bharwad community, Gujarat), bloat (Shri. Sakrabhai Kallubhai Bhariya, Gujarat) and Mareks disease (Smt. Jamunaben Bhanabhai Patel, Gujarat) were carried out at College of Veterinary Science, Anand, Anand Agricultural university and Bombay Veterinary College, MFASU, Mumbai. Clinical trials for understanding toxic parameters were conducted with the help of SRISTI-Sadhbhav-Sanshodhan natural product laboratory for products on silent estrus (Bharwad community, Gujarat), Retention of placenta (Shri. Harshadbhai Patel, Gujarat), and Bloat (Shri. Sakrabhai Kallubhai Bhariya, Gujarat). The unique mastitis formulation was documented from the healer Shri. Ukhardiyabhai Raot, Dang District and prepared with the help of SRISTI-Sadhbhav-Sanshodhan natural product laboratory.

### **Animal Health Technology licensed:**

Seven veterinary products for curing ailments viz., Coccidiosis, Immunity in birds, Mastitis, Lactagogue Diarrhea, Wound and Bloat were licensed to the Matrix Pvt. Ltd., Hyderabad. These products were made with the help of healers like Shri. Sudhakarbai Kauchabhai Gauhi, Shri. Jeevalbhai Mavajubhai Gauhi, Smt. Jamunabhen Bhanabhai Patel, Shri. Ukhardiyabhai Somabhai Raot and other communities.

### **Animal health Product launch:**

Remedies for Coccidiosis were developed by Shri.Sudhakarbhai Gauli and Shri Jeevalbhai Mavajubhai Gauli along with recipe for Poultry immunity, a community medication developed by traditional healers from Valsad and Dang region were launched at Poultry India (Expo) organized by Indian Poultry Equipment Manufacturers Association (IPEMA) Nov 2-4, 2007 at Hyderabad. The technologies were launched under the trade name of Coccicure and Poulmax respectively by Matrix Biosciences Pvt. Ltd.

### **Research Advisory Committee Meeting (Animal Health)**

NIF documented a total of 1400 livestock medications from Gujarat, Rajasthan, Bihar, Orissa and Tamil Nadu. The Research Advisory Committee (RAC) meeting was held at Indian Veterinary Research Institute (IVRI), Izatnagar on March 14th 2008. Dr. Dharmeswar Das, Joint Director (Academic) acted as Chairperson and 14 scientists from different disciplines had evaluated the technologies. About 57 short listed unique traditional animal health practices were presented along with detailed documentation and clinical results.

**Table 9: List of Animal Health projects**

<b>S.No.</b>	<b>Name of the Project</b>	<b>Organization</b>	<b>Brief report</b>
1	Effect of herbal medication on hormones in female buffaloes	NIF	Clinical trials indicates the hormone to have impact on production of GnRH; the herb increases the level of both estrogen and progesterone
2	Toxicity evaluation of herbal drug - Uterocure (Curing Retention of Placenta)	NIF- SRISTI	All the experimental animal were found to be normal in various biochemical parameters even with a maximum dose rate of 100g per day and with cumulative dose of 1750g over a period of 21 days
3	Developing Herbal	Shri.	Healer had prepared the herbal

	formulation for curing retention of placenta	Harshadbhai Patel, Traditional Healer	medication and trained at pharmaceuticals for preparing various forms of medication
4	Clinical evaluation of herbal drug for curing bloat in animals	NIF	Preliminary trial report indicated that liquid bloat suspension is capable of mitigating pain.
5	Validate efficacy of herbal extract on Mareks Disease virus	C.V.Sc., Mumbai	the efficacy of the plant over inclusion bodies and non toxic to 9 day old chick embryo
6	To study, validate and confirm efficacy of extract of herb in clinical and experimentally induced bloat in goat/buffalo	C.V.Sc., Mumbai	The plant had significant impact on pH; suggested dose rate: 50g per goat twice a day
7	Validation of selected indigenous practices for induction of estrus in ruminants	College of veterinary Science, Anand	The formulation brought anestrus animal into estrus, impact of the herb over blood cholesterol, phosphorus, glucose and total protein evaluated
8	Herbal medication for mastitis	NIF/SRISTI laboratories. Trials at Animal Husbandry Department, Pondicherry	Efficacy of the plant for curing coliform mastitis evaluated;;
9	Evaluation of therapeutic potential of the herbal drug for curing bloat in animals	NIF/SRISTI laboratories. Trials at Animal Husbandry Department, Pondicherry	Trial report indicated that liquid bloat suspension is capable of mitigating pain. Clinical toxicity were evaluated and found that the formulation is safe.
10	Screening of medicinal plant for Hepatoprotective activity	Bangalore University	Project initiated



11	Osteoblast proliferative potential of an unique herbal drug - An in vitro study	Bangalore University	Proposals evaluated
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#### **D. VARD - Mechanical**

##### **1. Competitions for design and development**

- a) NIF sponsored the "Punarnava" competition for value addition research and development. The competition was organized by the Electrical Engineering students of NIRMA University, Ahmedabad on 25<sup>th</sup> to 26<sup>th</sup> March, 2008.
- b) NIF sponsored the "Re-Kriti" competition for value addition research and development. The competition was organization by students of DAIICT, Gandinagar. The final was held on 2<sup>nd</sup> March, 2008.

##### **2. CSIR-NIF JIC Meeting:**

###### **A) Meeting of monitoring committee of projects at CMERI under CSIR NIF Fellowship scheme (Oct. 09, 2007)**

- Innovator of manual Pulse Thresher, Mr. Gopalbhai Suratiya; and manual water lifting device, Mr. N. Sakthimanithan visited CMERI Durgapur along with mentor from GIAN- Mr Sachi Pharade. Their prototypes were exhibited and plan of work for value addition was discussed..
- Review of the other projects under development at CMERI was done.

###### **B) Meeting of subcommittee of mechanical engineering group under CSIR NIF Fellowship scheme (Dec. 11, 2007)**

- Out of the 13 innovations presented, the innovations selected for further evaluation include Tree climber, Glabenator and device made of composite material. Cashew-nut peeler and paddy thresher were selected on priority and suggested to be presented in the next meeting.

###### **C) Meeting of joint implementation committee (JIC) under CSIR NIF Fellowship scheme (Dec. 12, 2007)**

- Review of the projects going on at CMERI since 2006 was done (Auto compression sprayer and motorcycle driven plough). Projects are in the finishing stage and it was suggested to involve design institutions for improvements in product styling, refinements and technical evaluation and in-farm audit by customers.
- Review of projects initiated in 2007 was done (manual water lifting device, manual pulse thresher, multipurpose agricultural implement and vertical conveyor reaper windrower) and proposed value addition plans were discussed.

##### **3. TePP supported projects**

Under projects sanctioned by TEPP, work was initiated in following projects.:

- Variants of phone operated switch, innovated by Mr. Prem Singh Saini
- Development of pomegranate de-seeder,, innovated by Mr. Uday Bharali

#### 4. Regional RAC meetings and preparation for National RAC

Rounds of screening of innovations/ideas received in the fifth national biennial competition have been completed. Detailed prior art search and benchmarking for selected ideas/innovations were done. Regional RAC meetings were held at following locations: PDS, Idukki (28<sup>th</sup> November, 2007), TCE, Madurai (30<sup>th</sup> November, 2007), SSIT Tumkur on (3<sup>rd</sup> December, 2007), GIAN North Jaipur (15-16 Dec, 07), and XLRI Jamsedpur (25<sup>th</sup> March, 07)

#### 5. VARD Projects

##### 5 a) Value addition projects being carried out at CMERI

###### Auto compression sprayer

The auto compression sprayer developed by Shri Arvindbhai Patel of Ahmedabad, Gujarat was given to CMERI for value addition under CSIR-NIF Fellowship Scheme in 2005-2006 and two prototypes were developed

###### Motorcycle driven plough

CMERI took the value addition project of this innovation by Mr Manshukhbhai Jagani of Amreli Gujarat. CMERI has come up with two prototypes with the aim of cutting down the time of fixing and detaching the attachment with/from motorcycle and standardizing the components.

##### 5b Support for prototype development and testing by premier institutes.

Total of 58 innovations were supported and an amount of Rs. 18, 07,084 was disbursed. **Table 10** lists the projects executed under this category

**Table 10:**

**Financial support extended to innovators under VARD-Mechanical (2007 - 2008)**

S. No.	Project Title & Agency	Innovator & State
	Prototype development of water level indicator (GIAN North, Jaipur, Rajasthan)	Mr. Vidit Agrawal, Uttar Pradesh
	Prototype development of automatic tea making programmable system with wireless receiver (NIF, Ahmedabad)	Mr Prem Singh Saini, Haryana
	Prototype development of 5 wheeled car (with Dept	Mr. Manoj and

	of Mech. Engg. BVB College of Engineering & Technology, Hubli, Karnataka) <b>(NIF, Ahmedabad)</b>	Harimohan Saini, Rajasthan
	Prototype development of 'Amphibious bicycle', (with Mr. J N Panchal, Ahmedabad) <b>(NIF, Ahmedabad)</b>	Mr. D P Chaurasiya, Uttar Pradesh
	Repair and new development in the automatic talking poster <b>(NIF, Ahmedabad)</b>	Mr. Prem Singh Saini, Haryana
	Prototype development, testing and certification of hydro powered water lifting device <b>(NIF, Ahmedabad)</b>	Mr. Sanganna Habbu, Karnataka
	Prototype development of multipurpose crutch with Dept of Mech. Engg. BVB College of Engineering & Technology, Hubli, Karnataka) <b>(NIF, Ahmedabad)</b>	Mr. Rakesh Patra, Orissa
	Prototype development of message sending board <b>(NIF, Ahmedabad)</b>	Mr. Kundan Kumar, Bihar
	Prototype development of multipurpose sugarcane cultivation machinery <b>(NIF, Ahmedabad)</b>	Mr. Annasaheb Udgavi, Karnataka
	Prototype development of hand operated charger for GSM <b>(NIF, Ahmedabad)</b>	Mr. Prem Singh Saini, Haryana
	Support for repair and maintenance of bio fuelled vehicle engine <b>(NIF, Ahmedabad)</b>	Mr. Goutam Roy, West Bengal
	Procurement of prototypes of auto air kick pumps -3 Nos. <b>(NIF, Ahmedabad)</b>	Mr. Arvindbhai Patel
	Prototype development of reciprocating drive system for bicycle (with Honeybee C/o Brig. Ganesham)	Mr. U. Krishna, Andhra Pradesh
	Prototype development of 'Amphibious bicycle' (with Mr. Harshadbhai Somnath Panchal, Ahmedabad) <b>(NIF, Ahmedabad)</b>	Mr. D. P. Chaurasiya, Uttar Pradesh
	Purchase of bicycle for 'amphibious bicycle project <b>(NIF, Ahmedabad)</b>	Mr. D P Chaurasiya, Uttar Pradesh
	Prototype development of fuel efficient auto <b>(GIAN-NE, Guwahati, Assam)</b>	Mr. Sib Shankar Mandal, Assam
	Prototype development of hybrid rickshaw (2 <sup>nd</sup> installment) <b>(GIAN, Ahmedabad)</b>	Mr. Seikh Jabbar, Maharashtra
	Validation of hydro power generation through slow flow moving water <b>(SSIT-STEP - Tumkur)</b>	Mr. Balakrishna, Karnataka
	Purchase of bicycle for developing amphibious bicycle <b>(NIF, Ahmedabad)</b>	Mr. Dwarka Prasad Chaurasiya, Uttar Pradesh
	Prototype development of low cost bamboo	Mr. Imli Toshi,

	hydroger (NIF Ahmedabad / NIF Assam cell)	Nagaland
	Prototype development support for cycle powered mobile charger, mobile operated micro switch, welcome switch, salt regulation device and earth quake sensing device (NIF, Ahmedabad)	Mr. Prem Singh Saini, Haryana
	Prototype development of cylindrical wooden planer (NIF, Ahmedabad)	Mr. Chandrapal Singh, Uttar Pradesh
	Prototype development of amphibious bicycle for further value addition (NIF, Ahmedabad)	Mr. Dwarka Prasad Chaurasiya, Uttar Pradesh
	Prototype development of use and throw pen(NIF, Ahmedabad)	Mr. Arindam Chattopadhyya, West Bengal
	Development of rollers of walnut cracker (NIF, Ahmedabad)	Mr. Mustaq Ahmed Dhar, J&K
	Design of manual washing machine (Mr. Pranav Mehta, Pune)	Ms Remya Jose, Kerala
	Support to establish a water pump to continue R&D (NIF, Ahmedabad)	Mr. Khobaragade
	Prototype development support for manual transplanter (NIF, Ahmedabad)	Mr. Photo Singh, Uttar Pradesh
	Testing and certification of Sanitary Napkin (NIF, Ahmedabad)	A. Muruganantham, Tamil Nadu
	Product fine tuning and design modification of centrifugal sprayer (SSIT-STEP - Tumkur)	Mr. U Krishna, Andhra Pradesh
	Product development and field trails of low cost sugarcane harvester (SEVA Madurai/ NIF)	Mr. Kandaraj, Tamil Nadu
	Development of marine reversible reduction gearbox (Shanti Gears Ltd, Bangalore/NIF Ahmedabad)	Mr. Mohan Lal, Kerala
	Development of walnut cracker machine (NIF, Ahmedabad)	Mr. Mustaq Ahmed Dhar, J&K
	Fabric design making machine for muga loom (NIF_GIAN Cell Assam)	Mr. Deepak Bharali, Assam
	Prototype development of message sending board (NIF, Ahmedabad)	Mr. Kundan Kumar, Bihar
	Support for field trials of manual water lifting device (NIF, Ahmedabad)	N. Sakthimainthan, Tamil Nadu
	Purchase of floating soap sample (NIF, Ahmedabad)	Mr. C. A. Vincent ,
	Prototype development of use and throw pen (NIF, Ahmedabad)	Mr. Arindam Chattopadhyya, West

		Bengal
	Development of prototypes of various innovations from Bihar ( <b>AWCCDS, Bihar</b> )	Mr. Ramashankar Sharma Nishant Ray, Kundan Kumar, Meraz Ahmed, Md. Rozadin and Udayshankar Sharma, Bihar
	Product development support for generation of electricity with the help of up thrust ( <b>NIF, Ahmedabad</b> )	Mr. Gourab Mitra, West Bengal
	Installation of low cost windmills ( <b>NIF_GIAN Cell Assam</b> )	Mr. Mehtar Hussain, Assam
	Development and testing of charcoal stove with air regulator ( <b>NIF_GIAN Cell Assam</b> )	Mr. Khunjanbihari Singh, Assam
	Product development support for paddy thresher ( <b>NIF, Ahmedabad</b> )	Mr. Dharnidhar Mehto , West Bengal
	Product development of manual chira and rice powder making machine ( <b>NIF_GIAN Cell Assam</b> )	Mr. Sandhon Sahari, Assam
	Development of prototype of dryer ( <b>NIF-GIAN Cell Assam</b> )	Mr. Manoharmayum Manjhar sharma, Imphal East
	Performance evaluation and value addition in multi functional farm implement ( <b>GAIN-N Jaipur</b> )	Mr. Amandeep & Ranjeet Singh, Rajasthan
	Performance evaluation and value addition in the multi seed cum fertilizer drill ( <b>GAIN-N Jaipur</b> )	Mr. Gopal Dave, Rajasthan
	Design & Implementation of a working prototype of Indian Tea Making Machine ( <b>NIF, Ahmedabad</b> )	Mr. Ashok Dhiman & Late Shri P.L. Misty
	Micro incubation support (innovator Md. Mehter Hussain & Md. Mustaq Ahmed) ( <b>NIF-GIAN Cell Assam</b> )	Md. Mehter Hussain & Md. Mustaq Ahmed, Assam
	Product development & value addition on Amphibious bicycle through R.N.S. Institute of Technology, Bangalore ( <b>NIF, Ahmedabad</b> )	Md. Saidullah, Bihar
	Development of Amphibious cycle Rickshaw( <b>NIF, Ahmedabad</b> )	Mr. Natai Das Gupta, West Bengal
	Micro incubation support (Innovator Imlitoshi) ( <b>NIF-GIAN Cell Assam</b> )	Mr. Imlitoshi, Nagaland
	Development of timer switch for three phase motor ( <b>NIF, Ahmedabad</b> )	Mr. Roshan Lal Vishwakarma, M.P.
	Value addition competition (Punarava) ( <b>NIRMA</b> )	NIRMA University,

University & NIF Ahmedabad)	Ahmedabad
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### Business Development and MVIF

During the year, enquires came from all over the world. In total NIF received 268 Business Development Product Enquiries, of which 68 were from different countries across the world. Follow up enquiries also were received from many parties in South America; Africa; Europe; South and South East Asia; North America etc.

One preliminary assessment that can be made while looking at the different enquiries is that most of the enquiries have originated from regions in the countries that are relatively less industrialized. Apart from the Pomegranate deseeding machine, Entech oil expeller and palm tree climber, for other innovations, the enquires have come from countries in Africa, South America, and South Asia. In the future it may be more feasible for NIF to look at these markets to build the market base and scale up production.

**Table 11: Product enquiries: Source by countries ( 07-08)**

Sl no.	Product	Number of Enquiries	Source countries for enquiries
1	Areca nut Sheller	3	Chile, Malaysia, Sweden
2	Boiled Tea Making Machine	1	USA, United Kingdom
3	Cassava/Tapioca peeling machine	9	Indonesia, Nigeria, Trinidad and Tobago, Senegal, Bangladesh, W Indies, Cambodia
4	Coconut and Palm Tree Climbing Device	12	USA, Maldives, Qatar, Canada, Brazil, Saipan, Vanuatu, USA
5	Coconut Defibrating Machine	4	Bangladesh, Cuba
6	Entech Expeller	5	Philippines, Tanzania, Malaysia, Malawi, Nigeria
7	Garlic Peeling Machine	2	Egypt, Malaysia
8	Pomegranate peeling machine	9	Israel, Pakistan, Turkey, United Kingdom, Mexico, Iran, Pakistan
9	Rain gun	1	Zambia
10	Vanraj Bicycle Pump	2	Guatemala
11	Zero head water turbine	1	Ethiopia
12	Manual tile making machine	3	USA, Afghanistan, South Africa
13	Manual Milking Machine	3	UAE, Sri Lanka, Bangladesh

14	Incubator for Hatching Egg	2	Ethiopia, Zimbabwe
15	Mini Sanitary Napkin Making Machine	2	Zimbabwe, Israel
16	Groundnut digging machine	1	Nigeria
17	Septic Tank Baffle System	1	Kenya
18	Ajooba Tube light	2	Bangladesh, Eritrea
19	Kamaal-505 herbal growth promoter	1	Malaysia
20	Coconut husker	1	Mexico
21	Resin grading machine	1	Mexico
22	Kerosene Pressure Stove	1	USA
23	Electro Tyre Processor	1	South Africa
24	Incense stick making machine	1	Vietnam
	<b>Total</b>	<b>69</b>	

Against the enquiries made, the following is the list of sales made during the year

**Table 12**

**Table 12: Sale of technological products during 2007-2008**

<b>Sales made for different technologies</b>			
<b>Sl no.</b>	<b>Technology</b>	<b>Source of query</b>	<b>Country enquired from</b>
1	Coconut/palm tree climber	BD site	Hawaii, USA
2	Coconut/palm tree climber	BD site	Maldives
3	Milking machine	BD site	Uganda
4	Milking machine	Trade delegation visit	Ethiopia
5	Milking machine	BD site	Philippines

### **Micro Venture Innovation Fund**

In the Year 2007-08 a total of 23 new projects were supported under MVIF. The total disbursed amount is Rs. 59, 57,100/- (fifty nine lakhs fifty seven thousand and one hundred rupees only)

**Table 13: MVIF Assistance in the Financial Year 2007-2008**

<b>Sl. No</b>	<b>Innovation Name</b>	<b>Innovator</b>	<b>Amount sanctioned</b>
1	Muga reeling machine	Nripen Kalita	45100
2	Bullock operated sprayer (2nd Installment)	Radhey Shyam Sharma	50000
3	Muga Reeling Machine	Nripen Kalita	44500
4	Improved Thresher for Multiple Crops including Groundnuts	Madan Lal Kumawat	940000
5	Herbal Growth Promoter (Kamaal-505)	Ishwar Singh Kundu	453100
6	Wood Carving Machine	Ghona Kanata Gogoi	8000
7	Areca Nut Machine	Uddhab Kr. Bharali	67500
8	Pomegranate Deseeding Machine	Uddhab Kr. Bharali	17000
9	Non-Sick Coating Earthen Tawa	Manshuk Prajapati	180000
10	Treatment for various human health disorders	Raj Kumar Ibungobi	14800
11	Treatment of various human health disorders	Tainamai Solomon	21300
12	Making various ointments for tropical treatment for various disorders	Norton Sharma	14800
13	PDS -Amla Enterprise (Fr. Hubby Matthew)	SHG Enterprise	95000
14	Nallamal Aushadham "Passiflora Foetid" , an innovative mosquito-killing agent	G. Chandra Shekhar	84000
15	Motorized Thread Winder 'Firki'	Paresh Panchal	30000
16	Multi Seed Drill	Gopal Dave	515000
17	Mini Sanitary Napkin Making Machine	A.Muruganandam	870000
18	Multi Purpose Cooking Vessel	Abdul Razak	24000
19	Natural water cooler	Arvindbhai patel	500000
20	Finger tip pen	Arindham Chattopadhyay	1000
21	Relighting fused tube light	Narasimhachary	100000



22	Bio gasifier	Rai Singh Dhaiya	1000000
23	Ajooba tube light	N das Jethwani	382000
24	Electro tyre processor	Augustine	500000
			5957100

### **National Incubation Committee**

NIF held the first National Incubation Committee workshop at CIIE, IIM Ahmedabad, on 19th August, 2007. The National Incubation Committee, constituting the National Coordinators and CIO of NIF, is chaired on an honorary basis by renowned turnaround expert, Mr. Rajeev Karwal. The incubation committee once properly constituted will have esteemed persons from the Academia and Industry also. In the first Incubation Committee meeting various experts from the academia, Industry, successful innovators, Honeybee network collaborators, and NIF staff participated.

### **Technology licensing**

#### **Veterinary products**

During the period the following veterinary technologies have been licensed to Matrix Bio Sciences.

**Table 14: Veterinary technologies licensed to Matrix Bio Sciences**

Sr.	Product
1	Herbal extract on Mareks Disease virus
2	Extract of herb in bloat in goat/buffalo
3	Selected indigenous practices for induction of estrus in ruminants
4	Herbal medication for mastitis

#### **Septic tank baffle system of TR Rajesh**

The technology of TR Rajesh was licensed to GMI Zarhak Goa for further modification and integration into a composite plastic roto moulded setic tank system. The agreement between the parties was signed in December 2007, for product development, trial testing and commercialization of the septic tank baffle system.

### **NIF competitions**

#### **DISHA 2007**

The annual B plan competition, DISHA, was launched with the Entrepreneurship cell of IIM Indore in early December 2007. DISHA had registrations from 91 teams from different management and engineering institutes across India. The finals were held at IIM Indore in the second week of February.

### **Pratyancha 2008**

*The annual social diffusion plan competition, 'Pratyancha',* was also launched in early January 2008 with a student club from XLRI. Around 45 teams participated on the different projects offered. The finals were held at XLRI on 26th of January as a part of their annual festival 'Ensemble'.

### **Saakar 2008**

'Saakar ' (B plan competition looking at participants as potential entrepreneurs) was launched with SP Jain, with emphasis on MVIF investment for winning and promising plans. The finals were held at SP Jain on February 14th. The E-cell coordinator at S.P. Jain, Prof. M.S. Rao, has extended incubation support at the SPJIMR incubation facility for the winners of Saakar.

### **Partnership proposals: Efforts for resource mobilisation**

A partnership proposal was submitted to National Bank for Agriculture and Rural Development (NABARD) Ltd, targeting its Rural Innovation Fund (RIF).

The activities proposed for the proposal was as follows:

- Project: Establishing Technology Business Incubation Centers and supporting innovation fellowships
- Project: Social Diffusion and Socio-commercial diffusion
- Project: Promotion of lateral markets in the horizontal (women to women) or vertical (urban consumers and rural producers) markets
- Project: Technology Acquisition Fund
- Project: Concept on new company, proposed to be set up, under NIF to deal with commercial aspects of innovations and also to mobilize private sector participation in investments and management
- Project: Linkage with 400,000 technology students in the country so that young minds are involved in the product development process
- Project: National Innovation and Incubation Centre (NIIC)

### **Intellectual Property Rights**

The most important contribution of the IPR cell during the year 2007-08 was in the field of patents. NIF filed a total of 22 new patent applications during 2007-08. It also filed a total of 36 complete specifications for the previously filed provisional applications, during the same time period. A total of 13 patents were granted during the year 2007-08.

There was also a similar increase in the number of prior art searches done in the IPR cell. A total of around 390 prior art searches were done during this period. Out of this, 135 were for herbal technologies; 70 for Agriculture technologies; 75 were for veterinary technologies and 110 were for engineering technologies. Three trademark applications and one design application was also filed during this period. The IPR Cell also responded swiftly to various queries of grassroots innovators from across the country and most of the queries were relating to patenting procedure and the role NIF can play in obtaining patents on their behalf.

**TABLE 15**

**List of new patent applications filed between April 1, 2007 and March 31, 2008**

S. No.	Innovation & Innovator	Country of Filing	IP Firm	Filing Details
1	Herbal treatment for cancer Vishnu Kumar Sharma	India	Y. J. Trivedi & Co., A' bad	CS filed
2	Centrifugal Sprayer U. Krishna	India	Global Business Solutions, Chennai	PS filed
3	Climbing Device Mustaq Ahmad Dar	India	Anand & Anand, New Delhi	PS filed
4	Herbal composition for foot care and treatment of ingrown nails Joseph Bindu, Jacob Jiji	India	Global Business Solutions, Chennai	PS filed
5	Herbal Baby Oil George Mary	India	Global Business Solutions, Chennai	PS filed
6	Cattle Environment Sanitizer George Mary	India	Global Business Solutions, Chennai	PS filed
7	Herbal Nutritional Supplements Elisabeth George, Ambika Mohanan, Sarasamma Thankachan, Mary Sabu, Ambily Reji, Geetha R. Kaimal, Rosamma Antony, Radhu Thampi	India	Global Business Solutions, Chennai	PS filed
8	Electricity generation through Dam Canal Shyamrao Parhate	India	Anand & Anand, New Delhi	PS filed

9	A Device for Hydro-Power Generation from slow flow of water K. Balakrishnan	India	Global Business Solutions	PS filed
10	Weighing Apparatus for Visually Challenged Vishnuramchandran & Sanjay Menon	India	Global Business Solutions	PS filed
11	Pomegranate de-seeder Udhab Bharali	India	Anand & Anand, New Delhi	PS filed
12	A manually controlled operating system for permitting a physically challenged person for controlling the vehicle Biju Varghese	India	Anand & Anand, New Delhi	CS filed
13	Improved Reaper Windrower Bhagwan Singh Dangi	India	Anand & Anand, New Delhi	PS filed
14	Hydro Powered Water Lifting Device Sanganna Habbu	India	Global Business Solutions	PS Filed
15	Herbal Bullet Proof Jacket Makrand Kale	India	Anand & Anand	PS filed
16	Herbal Composition for the Treatment of Coccidiosis in Poultry Sudhakarbai Kauchabhai Gauli and Jeevalbhai Mavajubhai Gauli	India	Y. J. Trivedi & Co., A' bad	PS Filed
17	Multipurpose Gear Mechanism Nishant Roy	India	Anand & Anand	CS filed
18	Reversible Reduction Gearbox For Marine Inboard Diesel Engines B. Mohanlal	India	Global Business Solutions	PS Filed
19	Device for Designing of Fabrics in Handlooms Dipak Bharali	India	Anand & Anand	PS filed

20	Portable Multipurpose Processing unit and process thereof Dharamvir Singh & Ranjeet Singh	India	Anand & Anand	PS filed
21	Metering Dispenser apparatus system & Method Gopal Dave	India	Anand & Anand	CS filed
22	A peeling Device Ashish Khatri	India	Anand & Anand	PS filed

**TABLE 16 - List of previous provisional patent applications, wherein Complete Specification was filed during the year 2007 - 2008**

S. No.	Innovation & Innovator	Country of Filing	IP Firm	Filing Details
1	Tea Boiler Saini Premsingh Bakhtavarsingh	India	Y. J. Trivedi & Co., A'bad	CS filed
2	Heartbeat amplifier Saini Premsingh Bakhtavarsingh	India	Y. J. Trivedi & Co., A'bad	CS filed
3	Walnut Cracker Mustaq Ahmed Dar	India	Anand & Anand, New Delhi	CS filed
4	Five Wheeled Car Manoj Saini & Harimohan Saini	India	Anand & Anand, New Delhi	CS filed
5	Solar Boat Ganesh Gimire	India	Anand & Anand, New Delhi	CS filed
6	Mini Microscope Chandranarayan Bairagya	India	Anand & Anand, New Delhi	CS filed
7	Multipurpose Bullock operated agricultural Equipment Shyamrao Parate	India	Anand & Anand, New Delhi	CS filed
8	A process for the preparation of a herbal formulation to enhance the growth of agricultural crops SRISTI	India	Y. J. Trivedi & Co., A'bad	CS filed
9	A process for the preparation of a herbal formulation for the control of leaf curl disease SRISTI	India	Y. J. Trivedi & Co., A'bad	CS filed

10	A process for the preparation of a herbal formulation for the control of shedding of flowers SRISTI	India	Y. J. Trivedi & Co., A'bad	CS filed
11	A process for the preparation of a herbal formulation for the control of Aphid, White fly and Heliothis SRISTI	India	Y. J. Trivedi & Co., A'bad	CS filed
12	A process for the preparation of a herbal formulation for the control of termite infestation SRISTI	India	Y. J. Trivedi & Co., A'bad	CS filed
13	Talking Poster Saini, Premsingh Bakhtavarsingh	India	Y. J. Trivedi & Co., A'bad	CS filed
14	Liquid Carrier Assembly Madhav Sawant	India	Y. J. Trivedi & Co., A'bad	CS filed
15	Polyherbal formulation for curing lameness in animals Periya Ayyavu	India	Surana & Surana, Chennai	CS filed
16	Herbal treatment for hypertension P. Gopalkrishnan Nair	India	Surana & Surana, Chennai	CS filed
17	Herbal Fruit Ripener Sahu Budhadaba	India	Anand & Anand, New Delhi	CS filed
18	Cost Effective Electro Fluorescent Device Mandaji Narsimha Chary	India	Global Business Solutions, Chennai	CS filed
19	Tractor Operated Stubble Shaver Ganesamurthy Asari	India	Global Business Solutions, Chennai	CS filed
20	Power Tiller Operated Stubble Shaver Ganesamurthy Asari	India	Global Business Solutions, Chennai	CS filed
21	Hand Operated Water Lifting Pump Shaktimaithan, K.	India	Global Business Solutions, Chennai	CS filed
22	Formulation for Treatment of Ocular Infections and process thereof Samatbhai Muljibhai Solanki	India	Y. J. Trivedi & Co., A'bad	CS filed

23	Herbal therapeutic product for the treatment of anestrus and silent estrus in buffaloes Bharwad Community	India	Y. J. Trivedi & Co., A'bad	CS filed
24	Herbal Therapeutic Product for the Prevention and treatment of retention of placenta in cattle and Buffaloes Harshadbhai Patel	India	Y. J. Trivedi & Co., A'bad	CS filed
25	Herbal composition for tapeworm infestations Harshadbhai Patel	India	Y. J. Trivedi & Co., A'bad	CS filed
26	Herbal formulation for control of agriculture pests Solanki Naranbhai Shamjibhai	India	Y. J. Trivedi & Co., A'bad	CS filed
27	Herbal composition for the prevention and treatment of Marek's disease and immunity enhancement Patel, Jamunaben Bhanabhai	India	Y. J. Trivedi & Co., A'bad	CS filed
28	Formulation for treatment of gastrointestinal disorders and process thereof Dindor Kalabhai	India	Y. J. Trivedi & Co., A'bad	CS filed
29	Herbal Composition for the Control and prevention of agriculture pests Jograjya Devjibhai Sangrambhai, Darbar Devkubhai Jivubhai, Koladiya Vinubhai Harjibhai	India	Y. J. Trivedi & Co., A'bad	CS filed
30	Herbal Composition for the prevention and treatment of endoparasites in animals Ramana Dahyabhai Nanjibhai, Makwana Madhabhai Sobabhai, Gohil Doodhiben Gabhabhai, Solanki Rukhadbhai Veljibhai, Gohil Tulsibhai Veljibhai	India	Y. J. Trivedi & Co., A'bad	CS filed

31	Organic Composition for the Control of blister beetles Vasava Rupjibhai Kalubhai	India	Y. J. Trivedi & Co., A'bad	CS filed
32	Lamination Device Amandeep Singh	India	Anand & Anand, New Delhi	CS filed
33	Multipurpose walking support device Rakesh Patra	India	Anand & Anand, New Delhi	CS filed
34	Improved Crop Thresher Mahipal Singh Rana	India	Anand & Anand, New Delhi	CS filed
35	Multipurpose Harvesting Device Annasaheb Bavu Udgavi	India	Anand & Anand, New Delhi	CS filed
36	Adoptable vehicle equipment for physically challenged Mujib Khan Nawab Khan Nagori	India	Anand & Anand, New Delhi	CS filed

**TABLE 17:**

**List of Patent applications granted/ placed in order for grant during the year 2007-08**

S. No.	Innovation & Innovator	Country of Filing	IP Firm	Filing Details
1	An Automatic Portable Sprayer, Arvindhbai R. Patel	India	Anand & Anand, New Delhi	Granted
2	Button Hole Machine Anil R. Kamdar	India	Anand & Anand, New Delhi	Granted
3	Oil expeller Kalpesh Gajjar	India	NRDC, New Delhi (L.S. Davar & Co.)	Granted
4	Manual Washing Machine Jose, Remya	India	Anand & Anand, New Delhi	Granted
5	Wheeled Manual Sprayer for vegetation Gopalbhai Suratia	India	Anand & Anand, New Delhi	Granted
6	LPG Gas Conversion Kit A. N. Manoharan	India	Surana & Surana, Chennai	Granted
7	A Manual Sprayer Khimjibhai Kanadia	India	Anand & Anand, New Delhi	Granted



8	A Drier for drying cardamom and like spices P. J. Abraham	India	Anand & Anand, New Delhi	Granted
9	Cycle Operated Water Lifting Pump Vikram Rathore	India	Surana & Surana, Chennai	Granted
10	Natural Fiber Matchstick and a Process for the Preparation Thereof U S Patil	India	Anand & Anand, New Delhi	Granted
11	Multi cylinder Reciprocating Pump Shakun Das	India	Anand & Anand, New Delhi	Granted
12	Improved bicycle Kanak Das	India	Directly filed by NIF CELL-ASSAM	In order for grant
13	Portable Battery Operated Sprayer Lalit Surana	India	Anand & Anand, New Delhi	In order for Grant

#### **Information Technology and Dissemination**

The main functions carried by IT&D in this year were software development, website development and maintenance, databases, servers maintenance, procurement of IT resources and dissemination/diffusion of grassroots technologies using IT and communication platforms. IT & D also initiated various small development projects useful in supporting the activities of other functions of NIF. These projects were done apart from other routine tasks of providing IT support including CMS based website development and maintaining the portals.

**Online incubation platform:** Under the InfoDev supported project at SRISTI and with the help of a company in Bangalore, NIF is supporting an online incubation platform for mentoring and valorising the innovations and traditional knowledge. It would enable experts, mentors, designers, engineers, and professors from all over the world to contribute remotely from their site to improve and valorise grassroots innovations of their interest. Different knowledge tools are still to be deployed which would facilitate users to submit information in terms of text, video, speech, file, drawing or picture.

The application shows the complete information flow from scouting and documentation to dissemination activities. The platform requires for user to register first and then gives varied access to use the system depending on the

interest. The beta version is already online and can be accessed at <http://demo.indiainnovates.com/>

**New Inward / Outward management system:** An application (which is a part of comprehensive MIS for NIF) to manage inward/outward, reference number, forwarding, user and administrator modules has been developed. Open source technologies have been used. The previous application of inward /outward was not as useful as changes could not be made in it and it was a desktop application with no web components available.

A few more helpful applications have been developed such as web based open source address book, using YouTube.com for hosting and downloading NIF videos, photo and video management module, plant database lookup module and resume database.

**Entries in database:** Around 12000 entries of fifth round have been entered in database while 500 entries from sixth campaign have been entered.

Following modules were also developed:

1. **Collaborator to Collaborator (C2C) sub-domain:** It is a discussion forum for collaborators of the Honey Bee network (<http://nif.org.in/c2c/>). The C2C platform has been developed to bridge the communication gaps among collaborators and other stakeholders of the network.
2. **Discussion Forum:** An Internal forum has been developed which is hosted on the intranet and is meant for online discussions and issue resolution by the staff of NIF.
3. **Address Book:** The module was designed to store the contact information of various well wishers, visitors and stakeholders. The visiting cards are stored in a database with place of meeting (optional).
4. **Video & Photo management application:** This open source based application has been designed for its utility to search, edit, categorise and browse photos and videos of innovators and innovations along with the information on competitions.
5. **CMS based SCAI as sub domain of NIF site:** Separate site for SCAI has been converted into CMS website from static site and made a sub domain of [nif.org.in](http://nif.org.in) ([scai.nif.org.in](http://scai.nif.org.in)).

6. **Stall Auction:** A small module (<http://sristi.org/auction>) was launched on an experimental basis to facilitate interested people to bid for stalls in the Satvik food festival.

### **Dissemination**

- **Collaboration with educational institutes:** Presentations on grassroots activities have been held in IIIT Hyderabad, IIIT Gwalior, NIT Hamirpur, NIT Suratkal, NIT Warangal, AIM Jodhpur, IIM Ahmedabad, IIM Kolkata, IIM Indore, IIM Kozhikode, XIM Bhubaneswar and XLRI, Jamshedpur and MNIT Jaipur.
- **Distribution of CDs:** During the year NIF has distributed more than 56,000 multimedia CDs in various exhibitions, conferences, seminars and Shodh Yatras.
- **Grameena Pragathi Pradarshana Exhibition:** NIF participated in this exhibition in Andhra Pradesh from June 1 - 10, 2007. Purpose was to showcase the innovations pertaining to farmers of AP with a view to create awareness regarding NIF and Honeybee, understanding and absorbing simple yet effective solutions to the day to day problems of the farmers, scout innovators in and around the venue, disseminate information regarding the 6th campaign etc.
- **Echo clubs:** With the help of SRISTI, a meeting was held in Sabarkantha district of Gujarat on 19<sup>th</sup> July 2007 to mobilise 265 higher secondary school teachers and to introduce to them innovative practices and technologies.
- **Global GIAN conference and APCTT workshop:** The conference and workshop was held in China during May-June 2007 to give a global direction to grassroots movement. Representatives of participating countries appreciated the efforts of NIF, SRISTI and Honey Bee Network and decided to use similar mechanisms to scout unheralded innovations in their respective countries.
- **Competitions -** Under student activities, several initiatives have been taken by the BD section. The IT&D Department provided technical support to these initiatives and hosted various competitions on dedicated sections of online portal. The competitions hosted were Disha 2007, Pratyancha 2008, Saakar 2008, Re-Kriti 2008 etc.
- **Knowledge Management workshop:** IT&D section participated in a workshop organized by the World Bank in New Delhi. The theme of the workshop was 'Knowledge Management for organizational capacity - South Asia Region (SAR) with Brainstorming session on Workshop Design and Content - Policy, Research and Action. NIF presented its ICT enabled activities and different initiatives in information management, multilingual kiosk, Shodh Yatra, open access database during the event discussions

- **Conference on Business Incubation:** The conference and workshop on Business Incubation activities in Asia Pacific Region and use of ICT was held in Vietnam during October 3-6, 2007. Two persons from HB network participated in the conference as SRISTI nominee. Apart from introduction of HB network and partner organisations, the online incubation portal was presented and issues related to Business Incubation and associated challenges were discussed.

## **Dissemination of Innovations in North East**

### **1. Wind Operated Water Pump of Mehtar-Hussain**

An initiative was made to implement Mehtab Hussain's Wind Operated Water Pump in different field sides of Siphajar, through Sri Loken Das, DDM, NABARD, Mongoldoi of Darang district.

### **2. Spring Rickshaw of Shiv Sankar Mandal**

Contacts were made with Center for Rural Development (CRD), Guwahati for a tie-up in Shiv Sankar Mandal's Spring Ricksaw system. CRD has the largest rickshaw bank project in the northeast; it provides rickshaws to those urban and rural poor as a soft loan.

### **3. Prem Singh's Mobile Charger**

Two mobile chargers developed by Mr. Prem Singh Saini from NIF were brought to Gauhati to try it out with CRD funded rickshaws. Two rickshaws were installed with the mobile charger on experimental basis.

### **4. Bamboo processing plant of Udhav Bharali**

The NECRMP Haflong, Assam got interested in Udhav Bharali's bamboo processing unit. One whole bamboo processing plant was set up at Haflong center of NECRMP costing more than seven lakhs. The bamboo processing plant is running well at a common facility center (CFC) in Haflong, providing self-employment opportunity to many unemployed youths in the area.

### **5. Rural Egg Incubator**

Efforts were made to popularize this machine in his surrounding localities, other districts of Assam and also in other NE states. District Collector, Sivsagar, Assam, took special interest and two machines were supplied to the DC. Similarly, in Manipur also, two local NGOs, Rural Development Organization (RDO) and Organization for Rural Improvement (ORI), have agreed to do a techno-feasibility assessment of the machine. This experiment has already started in Manipur with financial support of NIF.

## **6. Wood lathe cum drilling machine**

NIF Assam cell has tied up with Thy Sustainable Front (TSF), a local NGO from Imphal, to do a techno-feasibility study on the machine.

## **7. Agarbati sticks making machine and Bamboo Strip making machine**

An initiative was taken up by Assam Rifles, Tripura, under the Military Civic Action Plan, to train villagers in Agarbati Stick making processes. Machines from Usman Shekhani and Imli Toshi were demonstrated to the villagers.

## **8. Fabric Design Making Machine**

A training program for demonstrating and using the fabric design making machine was initiated in Ukhrul, Manipur, with women SHG's of NECRMP.

## **Prototyping, Value Addition and Research and Development (VARD)**

The projects supported for value addition, research and development include Portable Muga Reeling Machine, Chira Making Machine, Manual Wood Cutter, Wind Turbine Validation, Shock Proof Converter, Reuse of fused choke and Double phase protector, Chinmoi Mutipurpose Charkha, Pomegranate machine, Green Areca-nut peeling machine, Bamboo Lathe machine, Aminuddin Railway Project, Badminton Stroke Making Machine, Solar Boat of Ganesh Gihmeri, Validation of Fuel efficient Auto, Power Generation from Rumble Strip, Herbal tea pesticide, Zero Head Water Turbine, and project of the Traditional Bone Healers

New dissemination models tried out include the following:

- **Message on kites:** During Uttarayan on 14th January, 2008, NIF distributed around 8000 kites with message written on the kites to attract ideas and innovations.
- **Sky balloon:** During 5th traditional food festival, SATVIK, NIF tried to disseminate message using a sky balloon which gained the attention of children.
- **Bulk SMS services:** NIF also experimented by circulating message using bulk sms service through private operators like Reliance, Idea, Hutch, Airtel. Around 50,000 people were sent messages during the 5th traditional food festival organized by SRISTI.

## **GIAN Activities**

### **GIAN North**

### **Value Addition Activities**

GIAN North took up many projects for value addition and these included the Walnut Cracker Machine, Tree Climber, Solar Laminator, Trolley for porters at Mussoorie, Improved Automatic Seed Drill, Multipurpose Agro Machine, Car for Physically Challenged, Semi Automatic Harvester, and Oil and gas Extraction from waste rubber/ Plastic.

### **Hand Pump Diffusion**

CIM had a meeting with Sh. M.K.M. Joshi, Chief Engineer (R) - Additional, PHED, Jaipur regarding the diffusion of improved hand pump through PHED. PHED implemented one design at village Newaru

### **Outreach/ Dissemination and Networking**

GIAN-N participated in the following conferences and workshops during the period: Asia and the Pacific Incubator Conference (AAPIC), Hanoi, Vietnam (Oct 03 - 06, 2007), and the Indian Expo & Trade Fair, Pragati Maidan, New Delhi,

### **Participation in 19th Shodh Yatra in Kashmir:**

CIM participated in the 19th Sodhyatra in Kashmir (from June 20-27, 2007) organized by SRISTI and NIF and represented GIAN-North, Rajasthan.

### **Workshop at Indian Institute of Petroleum, Dehradun (IIP):**

GIAN-N and NIF had submitted eight prototypes of different stoves/ burners/ related devices to IIP, Dehradun for testing and evaluation under NIF-CSIR MoU. A workshop at IIP was held on July 23, 2007 where the innovators also demonstrated their technologies.

## **GIAN West**

### **Achievements:**

#### **Licensing marketing rights of Maruti Jhula Rocking cum Exercise chair**

The innovation by Shri Sakrabhai Prajapati from Kalol has been licensed to M/s Radix Technologies. An agreement was executed on March 29, 2007.

#### **Approval of Vanraj 10 HP tractor by CFMT&TI, Budni**

After a long exercise of about 5 years, Central Institute of Farm Machinery Training and Testing Institute (CFMT&TI), Budni has approved the tractor under initial commercial test for commercial production.

### **Resource Mobilization**

An innovator from Ahmedabad (Shri Yagnesh Mehta) has extended a token amount to GIAN to organize the Idea Competition for children to promote the

creativity and awareness about GIAN and NIF. Though the amount is very small but it reflects the spirit of the innovator to help.

#### **Mobilization of product development support from TePP**

GIAN west has mobilized financial support of Rs. 7, 09,000 in seven projects from the TEPP scheme of DSIR.

#### **Mobilization of product development support from SAVE, Ahmedabad**

GIAN west has also mobilized financial support of Rs. 92000/- for development of salt harvesting equipments through Bullet Santi from SAVE (Saline Area Vitalization Enterprise), an Ahmedabad based NGO.

#### **Progress in ongoing projects:**

GIAN has extended validation, incubation and venture support for the following projects:

Innovative Health Care Chair, Auto Compression Sprayer, Motorcycle Ploughing, Machine for Application in Salt farming, Non-stick tawa, Mitticool Refrigerator, Low cost natural cold storage, Ribbed tawa, Whole stalk paddy threshing machine, JALPARI – Water carrier (Water Jacket), Bicycle Sprayer, Herbal bullet-proof jacket, Variable speed power generator, Vertical Axis Wind Mill, Buttonhole edging machine, Natural Water cooler, Modified wood stove, Herbal Bullet Proof Jacket, Non stick tawa, Mitticool Refrigerator and Plant oil stove

#### **Prior art search and validation of 5<sup>th</sup> round entries from Gujarat & Maharashtra:**

Out of total entries received by NIF from Gujarat and Maharashtra, from the Mechanical and Agriculture category, GIAN west examined about 140 entries from Gujarat and 146 entries from Maharashtra region.

#### **Expansion of GIAN activity in GOA**

In order to expand the incubation of grassroots innovation activity in GOA region, Mr. Fredrick Noronha, an active member of Honey Bee member has agreed to provide all possible support. A competition for journalist to cover grassroots innovation story was under consideration by GIAN & NIF to create awareness in the region.

#### **New product launch**

The following products were launched in the market

- Gangesh – mobile solar operated natural water cooler
- Clay Pressure Cooker

### **Cross regional application of low cost wind mill for lifting ground water**

With collaboration of NIF cell at Assam, a product demonstration of the windmill was made at Boda village of little desert of Kutch, Near Dhangadhra in association with SAVE (Saline Area Vitalization Ltd) an Ahmedabad based NGO worked for salt farmers. The innovator, Mohammad. Mehtar Hussain, was invited to fabricate and install the windmill.

GEDA (Gujarat Energy Development Agency), Gujarat has also agreed to support installation of five wind mills for carrying out scientific study for further value addition. GIAN west has planned an installation of 50 such wind mill in salt desert area of Kutch in next four months with the help of SAVE and NIF.

### **Opening Permanent outlet Centre of Grassroots Technologies at GramHatt, Vastrapur, Ahmedabad**

Based on the response and awareness generated by last three Traditional Food Festivals, GIAN and NIF felt the need of permanent outlets at commercial premises for display and sales of the grassroots technologies and organic traditional foods. GIAN west approached department of Gujarat for providing space and finally obtained two stalls (10 x 20 ft each) at GRAMHAAT - a permanent exhibition and commercial Haat of Gujarat Government located in Vastrapur area.

### **ARTC (Agriculture Tools and Research Center), Bardoli as a Technology center**

ARTC, Bardoli is a ground level organization established by Shri Mohanbhai Parikh. ARTC agreed to showcase and demonstrate the different technologies at their campus. In first phase, GIAN west has sent the Bicycle Sprayer, Seed Dibbler, coconut tree climber, samples of herbal formulations etc to ARTC, Bardoli.

### **Other GIAN Cells**

#### **Thiagarajar College of Engineering, Madurai:**

Apart from evaluating and giving feedback on 20 technologies, this cell has taken up three major projects for value addition

1. Cycle based cell phone charger by T Manoharan
2. Manually operated spring making machine developed by Mr Selvarasu
3. Mini Boiler developed by Mr K R Duraisamy.

#### **SSIT, Tumkur:**



Sri Siddhartha Institute of Technology in Tumkur took three projects for value addition -

1. Fuel-efficient two-in-one stove developed by Jyothi Ravi Shankar
2. Milking Machine by Sh. Raghava Gowda
3. Plastic sealing device.

Two papers on grassroots innovations have been published by the coordinator GIAN-cell, Fellow NIF and Principal SSIT and the value addition work has been enhanced with the services of the faculty as well as students.

## **Join Us**

The responsibility of making India innovative lies with all of us. All of us who are well educated, with access to resources and technology are uniquely positioned to take this movement forward to make India a creative society. Come forward and join NIF in this innovation movement. Together let us build the value chain to convert innovations into sharp products and successful enterprise.

With your passion and expertise, you could assist us in following areas:

### ***Scouting and Documentation:***

Here you could help us onsite in identifying and documenting local grassroots innovators, traditional knowledge holders and linking NIF with entrepreneurs who may be interested in setting up business ventures around chosen innovations.

### ***Value addition:***

As a technical expert, industry professional or student, you could assist us in adding value to innovations towards technology incubation.

### ***Angel investors And Entrepreneurs:***

As an investor, you could choose to fund the enterprises built around innovations or as an entrepreneur, you could take up innovations from our product portfolio for developing new businesses.

### ***Information dissemination:***

You could help us in diffusion of innovation details, conduct events, use online and offline resources to increase awareness of innovations that could change lives all over the country

### ***Building Linkages:***

By virtue of your position, or professional network, you could help us in build linkages with agencies, industry clusters, policy makers and activists, who wish to facilitate this movement towards making India a knowledge society.

### ***Mentoring Innovators:***

As an industry expert or technical specialist, you could be a mentor and extend professional expertise for technology incubation and value engineering of grassroots innovations to reach new heights.

*Please feel free to write, call, fax or email us. We would get back to you.*

NATIONAL INNOVATION FOUNDATION

INDIA

AHMEDABAD

ANNUAL ACCOUNTS

FOR THE YEAR 2007 – 2008

**B C M Associates**  
**Chartered Accountants**

**402/403 Janpath, 4<sup>th</sup> floor,**  
**Near LIC, Opp. Nehru Bridge,**  
**Ashram Road, Ahmedabad - 380009.**

### **AUDITORS' REPORT**

We have audited the attached Balance Sheet of NATIONAL INNOVATION FOUNDATION INDIA, Bungalow No. 1, Satellite Complex, Premchand Nagar Road, Satellite, Ahmedabad - 380 015 as at 31st March 2008 and the Income and Expenditure account for the year ended on that date annexed hereto. These financial statements are the responsibility of the trustees. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by trustees, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

Further to the above, we state that -

- (a) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purposes of our audit;
- (b) In our opinion, proper books of account as required by law have been kept by the Foundation so far as appears from our examination of the books;
- (c) The Balance Sheet and Income and Expenditure Account dealt with by this report are in agreement with the books of account;
- (d) In our opinion and to the best of our information and according to the explanations given to us, the accounts read with the notes thereon give the information required by the Bombay Public Trust Act, 1950 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 Foundation as at 31<sup>st</sup> March 2008; and
  - ii. in the case of the Income and Expenditure Account, of the Excess of Income over Expenditure for the year ended on 31st March, 2008.



As required under section 33(2) of the Bombay Public Trust Act, 1950, we further report that -

- (1) The accounts are maintained regularly and in accordance with the provisions of the Act and the Rules.
- (2) The receipts and disbursements are properly and correctly shown in the accounts.
- (3) The cash balance and vouchers in the custody of the trustee on the date of audit were in agreement with the accounts.
- (4) All books, deeds, accounts, vouchers, or other documents or records required by us were produced before us.
- (5) A register of movable and immovable properties is properly maintained and the changes therein are communicated from time to time to the regional office of the Charity Commissioner.
- (6) There are no defects and inaccuracies mentioned in the previous audit report which need to be complied with.
- (7) The manager / trustee required by us to appear before us did show and furnished the necessary information required by us.
- (8) No property or funds were applied for any object or purpose other than the object or purpose of the trust.
- (9) The amounts outstanding for more than 1 year and the amounts written off are NIL.
- (10) Tenders were invited wherever the repairs or construction involving expenditure exceeding Rs. 5,000 was taken up.
- (11) We have not come across any case of alienations of the immovable properties contrary to the provisions of section 36 of the Act.
- (12) We have not come across any case of irregular, illegal or improper application of or failure or omission to recover monies or other property belonging to the public trust or of loss or waste of money or other property thereof on the part of the trustees or any person while in the management of the trust.
- (13) The minimum and maximum number of the trustees is maintained.
- (14) The meetings are held regularly as provided in the trust instrument.
- (15) The minute book of the proceedings of the meeting is maintained.




- (16) None of the trustees has any interest in the investments of the trust.
- (17) None of the trustees is debtor or creditor of the trust.
- (18) No irregularities are pointed out by the auditors in the accounts of the previous year which require to be complied with by the trustees during the period of audit.

For B C M Associates  
Chartered Accountants

Ahmedabad  
Dated July 23, 2008.



  
Bharat C. Mehta  
Proprietor  
Membership No. 30268

**NATIONAL INNOVATION FOUNDATION - INDIA**

**BALANCE SHEET AS ON 31-03-2008**

**Regn.No.F/7412/Ahmedabad**

<b>FUNDS &amp; LIABILITIES</b>		<b>Rs.</b>	<b>Rs.</b>
<b>Trust Funds or Corpus</b>			
Balance as per last Balance Sheet			200,000,000
<b>Other Earmarked Funds</b>			76,109,707
As per Schedule 1			
<b><u>Loans (Unsecured or Secured)</u></b>			
<u>Secured Loans</u>		0	
<u>Unsecured Loans</u>			
- From Trustees		0	
- From Others		0	0
<b><u>Liabilities :</u></b>			
- For Expenses		0	
- For Advance Received			
- Innovator fellowship fund		6,700	
- TePP project		59,500	
- For Rent and other Deposits		0	
- For Sundry Credit Balances		0	66,200
<b><u>Income and Expenditure Account :</u></b>			
Balance as per last Balance Sheet		15,248,391	
Less : Excess of Income over Expenditure as per Income and Expenditure Account		2,372,554	17,620,945
		<b>Total..</b>	<b>293,796,852</b>
<b>PROPERTY &amp; ASSETS</b>		<b>Rs.</b>	<b>Rs.</b>
<b>Immovable Properties</b>			0
<b>Movable Properties</b>			
As per Schedule 2			
Gross Block		9,532,984	
Less : Depreciation Reserve fund		6,110,340	
Net Block			3,422,644


Contd..



Contd..

PROPERTY & ASSETS		Rs.	Rs.
<b>Investments</b>			
8% GOI Saving Bonds			224,950,000
<b>Advances :</b>			
- To Trustees			
- To Others			
CSIR-NIF fellow	1,223,195		
Misc advances	284,750		
Utility Deposits	172,950		
RGB - NID	150,000		
		1,830,895	
- Tax Deducted at Source	2,318,406		
- MVIF Project A/c as per Schedule 3	7,993,374	10,311,780	12,142,675
<b>Cash &amp; Bank Balances</b>			
Cash on hand			100
Balance with			
- UTI Bank, Vastrapur - A/c. No.1548	1,158,310		
- A/c. No. 8099	136,983		
- Kotak Mahindra, Vastrapur - SB A/c. No.762	-116,540	1,178,753	
Fixed Deposits			
- A/c. MVIF	51,920,554		
- A/c. NIF	182,126	52,102,680	53,281,533
		Total..	<b>293,796,852</b>

As per our report of even date  
For BCM Associates  
Chartered Accountants

  
Bharat Mehta  
Proprietor  
(Membership No. 30268)

Place : Ahmedabad  
Date : 00-07-2008

The above Balance Sheet to the  
best of my/our belief contains  
a true account of the Funds and  
Liabilities and of the Property  
and Assets of the Trust

  
**Prof. ANIL K. GUPTA**  
EXECUTIVE VICE - CHAIRPERSON  
NATIONAL INNOVATION FOUNDATION  
AHMEDABAD

Place : Ahmedabad  
Date : 00-07-2008





**NATIONAL INNOVATION FOUNDATION - INDIA**

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31-03-2008**

Regn.No.F/7412/Ahmedabad

<b>INCOME</b>	<b>Rs.</b>	<b>Rs.</b>
<u>Interest received:</u>		
- On Investments	17,996,000	
- On Loans (On TDS)	10,626	
- On F.D.R with Banks - A/c. NIF	293,304	18,299,930
Amount transferred from Earmarked Fund		
- Out of Earmark Fund to be utilised before 2012	8,400,000	
- Out of Earmark Fund to be utilised before 2011	5,070,000	13,470,000
Income from other sources		
- Misc. Income	26	
- Overhead Recovery - MVIF	711,425	
- Monitoring fees	50,000	761,451
Total..		<b>32,531,381</b>
<b>EXPENDITURE</b>	<b>Rs.</b>	<b>Rs.</b>
Expenditure in respect of Properties		0
<u>Other Expenses</u>		
Establishment Expense	0	
Remuneration to Trustees	0	
Legal Expenses	0	
Audit & Professional Fees	20,478	
Contribution and Fees	0	
Amounts written off (assets)	63,084	
Miscellaneous expenses	0	
Depreciation	971,943	1,055,505


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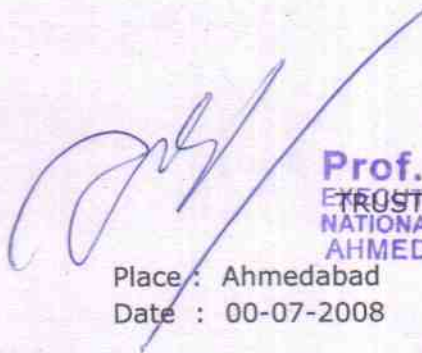
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EXPENDITURE	Rs.	Rs.
To Amounts transferred to reserve or specific funds: - Earmark Fund - to be utilised before 2012		
Expenditure on object of the trust		
(a) Religious	0	
(b) Educational	29,103,322	
(c) Medical	0	
(d) Relief of Poverty	0	
(e) Other Charitable Objects	0	29,103,322
Excess of Income over Expenditures transferred to Balance Sheet		2,372,554
Total..		<b>32,531,381</b>

As per our report of even date  
For BCM Associates  
Chartered Accountants

  
Bharat Mehta  
Proprietor  
(Membership No. 30268)

Place : Ahmedabad  
Date : 00-07-2008



**Prof. ANIL K. GUPTA**  
TRUSTEE VICE - CHAIRPERSON  
NATIONAL INNOVATION FOUNDATION  
AHMEDABAD

Place : Ahmedabad  
Date : 00-07-2008



**NATIONAL INNOVATION FOUNDATION - INDIA**

**Schedule - 1**

**Other Earmarked Funds**

<b>PARTICULARS</b>	<b>Rs.</b>	<b>Rs.</b>
<b>Capital Fund</b>		
Opening Balance		433,294
<b>Earmarked Fund</b>		
- to be utilised before 2011	5,070,000	
Less :- Utilised during the year	5,070,000	0
- to be utilised before 2012	20,000,000	
Less :- Utilised during the year	8,400,000	11,600,000
<b>Micro Venture Innovation Fund- A/c SIDBI</b>		
Balance as per last Balance Sheet	49,780,369	
Add : Interest received	5,073,400	54,853,769
<b>Administrative Grant received in advance A/c-SIDBI</b>		
Balance as per last Balance Sheet	9,791,214	
Add : Interest received	634,920	
	10,426,134	
Less : Institutional charges & expenses	1,203,490	9,222,644
<b>TOTAL</b>		<b>76,109,707</b>



**NATIONAL INNOVATION FOUNDATION - INDIA**

**Schedule 2**

**Movable Properties**

Particulars	GROSS BLOCK			
	Balance as on 01-04-2007	Additions during the year	written off during the year	Gross Block as on 31-03-2008
	Rs.	Rs.	Rs.	Rs.
Furniture & Fixtures	800,747	362,967	16,437	1,147,277
Computers	4,043,428	1,076,019	271,888	4,847,559
Fax Machine	29,232	-	-	29,232
Refrigerator	8,510	16,000	-	24,510
EPABX System	51,908	-	-	51,908
Photo Copying Machine	456,202	49,000	-	505,202
Fire Extinguisher	13,405	-	-	13,405
Telephone/mobile Instrument	169,399	110,539	65,948	213,990
Camera	320,475	243,310	2,990	560,795
Equipment	70,890	124,950	4,925	190,915
Software	1,017,858	328,074	-	1,345,932
Electrical Installations	12,870	56,740	-	69,610
Air Cooler	30,600	62,380	-	92,980
Vechile	112,457	-	-	112,457
Public Address System	-	60,111	-	60,111
Sony LCD	-	91,000	-	91,000
Tape recorder	24,425	8,700	-	33,125
Scanner	-	49,750	-	49,750
Networking equipment	-	57,788	-	57,788
Balloon	-	35,438	-	35,438
<b>Total A</b>	<b>7,162,406</b>	<b>2,732,766</b>	<b>362,188</b>	<b>9,532,984</b>



**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Schedule 2**

DEPRECIATION				Net Block As on 31-03-2008
Depreciation up to 31-03-2007	Depreciation written back on w/o assets	Depreciation for 2007-08	Total Depreciation up to 2007-08	
Rs.	Rs.	Rs.	Rs.	Rs.
294,420	7,068	68,110	355,462	791,815
3,604,307	254,111	578,508	3,928,704	918,855
17,234	-	1,800	19,034	10,198
5,017	-	1,724	6,741	17,769
29,878	-	3,305	33,183	18,725
242,525	-	35,728	278,253	226,949
6,399	-	1,051	7,450	5,955
66,055	22,744	19,186	62,497	151,493
121,804	1,947	47,894	167,751	393,044
28,643	2,354	20,210	46,499	144,416
977,758	-	124,695	1,102,453	243,479
6,045	-	3,520	9,565	60,045
6,426	-	12,984	19,410	73,570
8,435	-	15,603	24,038	88,419
-	-	4,508	4,508	55,603
-	-	6,825	6,825	84,175
11,675	-	2,566	14,241	18,884
-	-	3,732	3,732	46,018
-	-	17,336	17,336	40,452
-	-	2,658	2,658	32,780
<b>5,426,621</b>	<b>288,224</b>	<b>971,943</b>	<b>6,110,340</b>	<b>3,422,644</b>



NATIONAL INNOVATION FOUNDATION - INDIA

F.Y. 2007-2008

Schedule - 3

ADVANCES A/c. MVIF PROJECTS		
	Rs.	Rs.
<b>North East Region</b>		
Arena Nut Peeling machine	37,500	
Automatic Pump Operator	1,200	
Bamboo Strip & Stick Device	12,767	
Bamboo Strip/ Stick Making Machine	5,028	
CIMAP Project	61,964	
Dual Alarm Security Device	205,140	
Egg Incubator	60,000	
Electric shock proof convertor	20,485	
Garlic Peeling Machine	28,900	
Interlocking Bricks	24,743	
Kerosene Stove	25,283	
Passion Fruit Juice Extractor	11,107	
Rural Multi Purpose Dryer	4,250	
Usman Shekhani	14,750	
Wind Turbine	17,167	
Wood apple tea	17,050	
Wood Cutting Machine	54,767	
Wood Carving machine	8,000	
Muga Reeling Machine	20,000	
Pomegranate Deseeding	17,000	
Amount lying with coordinating agency	383,173	1,030,274
<b>North Region</b>		
Automatic Parking Light	3,500	
Coil Winding Machine	7,118	
Film Projector	16,472	
Fire Cracker Device	7,000	
Ground Digger Machine	-5,000	
Horse Shaver	19,224	
Manual Automatic Starter	6,085	
Modified Solar Cooker	5,047	
Multi crop Thresher	-116,542	
Multi-purpose Bicycle	10,000	
Stoves Testing	5,500	
Tea Making Machine	30,000	
Tile Making Machine	4,500	
Herbal Growth	408,919	
Multi Seed Drill	506,954	
Trench Digger Machine	10,238	
Amount lying with coordinating agency	2,015,693	2,934,708



<b>ADVANCES A/c. MVIF PROJECTS</b>		
	<b>Rs.</b>	<b>Rs.</b>
<b><u>Western Region</u></b>		
Bicycle Hoe	15,000	
Bicycle Sprayer	5,221	
Diesel Engine	25,100	
Healthcare chair	24,082	
Jabbar Gear Project	31,221	
Jute Matchstick	10,000	
Kerogas Stove	4,847	
Key Way Making Device	12,000	
Kite String Winder	157,175	
Motor Protection Device	98,074	
Multipurpose Agri. Device	8,000	
Sickles	6,600	
Sugarcane Rotavator	47,486	
Tong Project	20,500	
Rachna Enterprise- Natural water cooler	505,945	
Mitticool Clay	46,026	
Scooter Mounted Paint Gun	52,312	
Amount lying with coordinating agency	242,223	1,311,812
<b><u>Southern Region</u></b>		
GIAN- CELL, SSIT	7,240	
SEVA (Multipurpose Cooking Vessel-Abdul Razak	24,000	31,240
<b><u>Projects under direct supervision of NIF</u></b>		
A N Manoharan	14,500	
A.N.shukla	72,375	
Airkick Pump	3,614	
Appachan M.	74,127	
Ashok kumar-wood apple jam	7,556	
Automatic Portable Sprayer	1,250	
Balramsingh saini	11,200	
Battery Operated Sprayer	600	
Buttonhole Stitching Machine	200	
Chandrapal SinghChandrapal Singh	7,000	
Cotton Stripper	3,614	
Double Acting Pump	500	
Electric Generator	34,515	
Electrical Apparatus	1,000	
Improved Multicrop Thresher	500	
Improved Screw	2,200	
Intercom Device	3,294	
K.linga Brahman	50,000	
K.P. Chinnaswamy	33,727	
K.R.Chandran	125,000	
K.S.Sudheer	10,000	



<b>ADVANCES A/c. MVIF PROJECTS</b>		
	<b>Rs.</b>	<b>Rs.</b>
M. Nagarajan	-5,000	
Manoharan	3,000	
Manual Sprayer (Gopalbhai Surtia)	6,370	
Manual Sprayer (Khimjibhai Kanedia)	6,370	
Mohd. Saidullah	16,000	
Multi-purpose Agri. Device	500	
Multipurpose Electric Boiler	1,250	
Nageshwar Pandit	2,850	
Oil Expeller Machine	3,614	
P. K. Ravi	70,200	
Radheshyam sharma	5,000	
Rajesh Deshmukh (Modified Solar Cooker)	3,500	
Rajesh T.R.	9,000	
Safruddin kazi	25,000	
Satish Deb	42,000	
Solar Cooker shaikh	2,500	
Tukaram Verma	1,800	
Vanraj Tractor	3,614	
Dr.K.L.Rao- Honeybee AP	184,000	
Jayshree Industries- Sanitary Napkin	870,000	
Director, SMIT- Ajooba Tube Light Frames	382,000	
Amla Enterprise	95,000	
Augustine Thomas- Electro Tyre Rethreading ma	500,000	2,685,340
<b>TOTAL</b>		<b>7,993,374</b>





**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Schedule - 4**  
**Educational Expenses**

Sl. No.	PARTICULARS	Rs.	Rs.
<b>A.</b>	<b>Administration</b>		
1	Accommodation	9,720	
2	Bank Charges	18,178	
3	Books & Subscriptions	19,000	
4	Communication & Telephone charges	308,920	
5	Consultancy Charges	9,115	
6	Electricity Charges	330,234	
7	Human Resource Payments		
	Contractual payments	222,863	
	Salary	27,677	
8	Insurance Premium	32,230	
9	Legal and Professional Expenses	4,775	
10	Meeting Expenses	138,067	
11	Office Expenses	182,576	
12	Postage	73,009	
13	Recruitment Expenses	1,201,995	
14	Rent & Municipal Tax	972,961	
15	Repairs & Maintenance	19,411	
16	Security Expenses	106,626	
17	Staff Welfare Expenses	224,143	
18	Stationery & Printing	153,953	
19	Travel & Conveyance Expenses	754,231	
20	Xerox Expenses	52,717	<b>4,862,401</b>
<b>B.</b>	<b>Information Technology/Database Development &amp; Dissemination</b>		
1	Books & Magazines & Membership Fees	170,250	
2	CBSC CD media	40,020	
3	Communication & Telephone Charges	171,300	
4	Computer Consumables	143,302	
5	Computer Maintenance & Upgradation	67,001	
6	Consultancy Charges	19,750	
7	Database	215,196	
8	Dissemination	147,808	
9	Exhibition, Eeminar, Workshop Expenses	133,137	
10	Human Resource Payments		
	Fellowship	256,581	
	Salary	428,000	
	Training / stipend	122,633	
11	Internet Expenses	61,542	
12	Postage & Courier Charges	36,325	
13	Stationery & Printing	45,764	
14	Travel & Conveyance Expenses	73,219	
15	Website/ Web Hosting	261,276	
16	Xerox Expenses	26,229	<b>2,419,333</b>
	<b>Total c/f</b>		<b>7,281,734</b>



## Schedule - 4 contd..

Sl. No.	Particulars	Rs.	Rs.
	<b>Total b/f</b>		<b>7,281,734</b>
<b>C.</b>	<b>Business Development Activities</b>		
1	Advertisement Expenses	91,218	
2	Books & Magazines & Membership Fees	170,250	
3	Communication & Telephone Charges	229,345	
4	Exhibitions/Workshops & Competitions Expenses	641,423	
5	Human Resource Payments		
	Contractual Payments and Consultancy Fees	377,624	
	Fellowship	344,555	
	Salary	436,000	
	Training / stipend	357,411	
6	Grant	173,100	
7	Meeting Expenses	6,164	
8	Postage & Courier Charges	50,146	
9	Stationery & Printing	49,659	
10	Travel & Conveyance Expenses	376,747	
11	Xerox Expenses	36,209	<b>3,339,851</b>
<b>D.</b>	<b>Intellectual Property Right Activities</b>		
1	Communication & Telephone Charges	59,487	
2	Books & Magazines & Memberships	8,055	
3	Human Resource Payments		
	Contractual Payments and Consultancy Fees	110,279	
	Fellowship	373,060	
	Salary	27,385	
4	Patent/ Trade Mark	227,345	
5	Postage & Courier Charges	14,432	
6	Seminar, workshop & related Expenses	7,443	
7	Stationery & Printing	12,729	
8	Travel & Conveyance Expenses	110,586	
9	Xerox Expenses	10,421	<b>961,222</b>
<b>E.</b>	<b>Scouting &amp; Documentation</b>		
1	Books & Magazines & Membership Fees	222,750	
2	Campaign	464,136	
3	Communication & Telephone Charges	349,469	
4	Consultancy Charges	40,625	
5	Human resource payments		
	Contractual Payments and Consultancy Fees	953,579	
	Fellowship	1,117,258	
	Field staff Expenses	1,183,551	
	Honorarium	0	
	Salary	270,839	
	Training / stipend	153,380	
6	Grant	2,926,217	
7	Meeting Expenses	206,771	
8	Postage & Courier Charges	150,042	
9	Stationery & Printing	185,200	
10	Translation charges	22,590	
11	Travel & Conveyance Expenses	743,710	
12	Videography & Photography	43,418	
13	Workshop/ Seminar /Exhibition Expenses	542,808	
14	Xerox Expenses	108,340	<b>9,684,683</b>
	<b>Total c/f</b>		<b>21,267,490</b>



## Schedule - 4 Contd..

Sl. No.	Particulars	Rs.	Rs.
	<b>Total b/f</b>		<b>21,267,490</b>
<b>F.</b>	<b>Value Addition and Research Development Activities</b>		
1	Books & Magazines & Membership Fees	189,059	
2	Communication & Telephone Charges	312,243	
3	Consultancy/ Honorarium Charges	27,150	
4	Contractual Payments	946,150	
5	Exhibitions/Workshops/Seminars Expenses	248,758	
6	Fellowship including Innovator fellowship	1,080,231	
7	Grant	212,465	
8	JIC Expenses	44,895	
9	Meeting Expenses	57,990	
10	Postage & Courier Charges	92,211	
11	Prototype Repairing & Other Expenses	1,149,903	
12	Salary	338,133	
13	Stationery & Printing	91,480	
14	Training / stipend	95,450	
15	Travel & Conveyance Expenses	688,195	
16	Value Addition Awareness	270,153	
17	Xerox Expenses	66,583	<b>5,911,049</b>
<b>G.</b>	<b>Award Function</b>		
1	Exhibition - Photography and Other Expenses	2,000	
2	Travel/ Transportation	13,735	<b>15,735</b>
<b>H.</b>	<b>Supports Provided to</b>		
1	NIF Cell (NE)	834,700	
2	GIAN North	1,074,348	<b>1,909,048</b>
	<b>TOTAL</b>		<b>29,103,322</b>



**NATIONAL INNOVATION FOUNDATION INDIA**

**SCHEDULE 5**

**SIGNIFICANT ACCOUNTING POLICIES AND NOTES TO ACCOUNTS**

**1. Significant accounting policies**

**a) Basis of accounting**

The financial statements are prepared under the historical cost convention, on cash basis of accounting in conformity with generally accepted accounting principles in India ('Indian GAAP') as applicable, and the relevant provisions of the Bombay Public Trust Act, 1950. The accounting policies have been consistently applied by the Foundation; and the accounting policies not referred to otherwise, are in conformity with Indian GAAP.

**b) Revenue recognition**

All income and expenditures are recognized on cash basis except in case of specific and conditional Grants received from some organizations. The un-spent amount of such Grant is liable to be returned or re-directed as per the directions of the Donor organisations. Accordingly the unspent amounts as on the date of Balance Sheet are shown as liability.

**c) Fixed assets and intangible assets**

Fixed assets are stated at cost, less accumulated depreciation. Cost includes all expenditure necessary to bring the asset to its working condition for its intended use.

**d) Depreciation and amortisation**

Depreciation is provided on the Written Down Value (WDV) at rates and in the manner prescribed in Appendix I to the Income tax rules, 1962.

**e) Investments**

The investments are carried at cost.




**f) Retirement and other employee benefits**

The foundation has not made any retirement benefits payable to the employees. The retirement benefits are accounted for as and when they become due and payable to the employees.

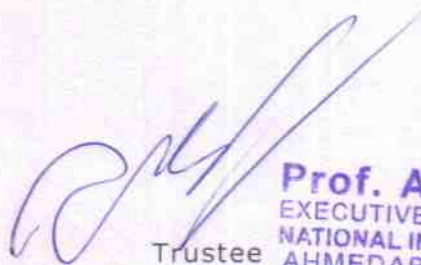
**2. Other notes**

- a) In the opinion of the trustees, the current assets, loans and advances have a value on realisation in the ordinary course, at least equal to the amount at which they are stated in the Balance Sheet.
- b) In opinion of the trustees, there is no contingent liability as on the date of balance sheet.
- c) The balances of loans and advances to innovators are subject to confirmation / reconciliation and the necessary adjustments, if any, in respect thereto will be carried out in the year in which they are settled.

As per our report of even date attached  
For B C M Associates  
Chartered Accountants

  
Bharat Mehta  
Proprietor

Ahmedabad.  
Dated 23<sup>rd</sup> July, 2008.

  
Trustee

**Prof. ANIL K. GUPTA**  
EXECUTIVE VICE - CHAIRPERSON  
NATIONAL INNOVATION FOUNDATION  
AHMEDABAD

Ahmedabad.  
Dated 23<sup>rd</sup> July, 2008.




**Schedule IXC  
(Vide Rule 32)**

*Statement of Income liable to contribution for the Financial Year 01-04-07 to 31-03-08*

Name of the Public Trust:	NATIONAL INNOVATION FOUNDATION - INDIA Bungalow No. 1, Satellite Centre, Satellite Complex, Premchandnagar Road, Jodhpur Tekra, Satellite, Ahmedabad - 380015.	
Regn.No.	F/7412/Ahmedabad	
	Rs.	
Gross Annual Income		
As per Income and Expenditure account	18,349,956	
As per Balance Sheet:		
Interest credited to MVIF A/c SIDBI	5,073,400	
Interest credited to Administrative Grant SIDBI	634,920	
<b>Total Gross Annual Income</b>		<b>24,058,276</b>
Details of Income not Chargeable to Contribution under Section 58 Rule 32		
(i) Donation received during the year from any sources		
(ii) Grants by Government and Local Authorities		
(iii) Interest on Sinking or Depreciation Fund		
(iv) Amount spent for the purpose of education	29,103,322	
(v) Amount spent for the purpose of medical relief		
(vi) Deductions out of income from lands used for agricultural purpose :		
(a) Land Revenue and Local Funds/Cess		
(b) Rent payable to superior landlord		
(c) Cost of production, if lands are cultivated by trust		
(vii) Deductions out of income from lands used for non-agricultural purpose :		
(a) Assessment, Cesses and other Government or Municipal Taxes		
(b) Ground rent payable to the superior landlord		
(c) Insurance Premium		
(d) Repairs at 8 1/3 per cent of gross rents of buildings		
(e) Cost of collection at 4 percent of gross rent of buildings let out		
(viii) Cost of collection of income or receipts from securities stocks etc.at 1 percent of such income		
(ix) Deduction on account of repairs in respect of buildings not rented and yielding no income at 8 1/3 per cent of the estimated gross annual rent		
<b>Total of Deductions</b>		<b>29,103,322</b>
<b>Income liable to contribution -</b>		<b>0</b>

As per our report of even date  
B C M Associates  
Chartered Accountants

  
Bharat Mehta  
Proprietor  
Membership No. 30268

Place Ahmedabad  
Dated 23rd July, 2008.

Trustee

**Prof. ANIL K. GUPTA**  
EXECUTIVE VICE - CHAIRPERSON  
NATIONAL INNOVATION FOUNDATION  
AHMEDABAD

