

# Annual Report 2012-13







**National Innovation Foundation - India**

Department of Science & Technology, Govt. of India





R. A. Mashelkar, F.R.S.  
Chairperson, NIF  
National Research Professor, Chancellor, AcSIR &  
President, Global Research Alliance

## *Preface*

I will characterize the year under report as a year of new partnerships and new beginnings. I have often reflected on the fact that many innovations inspire us, amuse us and make us curious about them. But what do we do so that these innovations also motivate us to help the journey from 'mind to market place'? Without this journey connection, real difference in the life of people may not either endure or scale up.

I am very happy that NIF has achieved some outstanding breakthroughs last year. Sustained efforts over the past many years to induce industry to help in taking the grassroots innovations to the market have begun to bear fruits. I am very happy to note the new partnership with Tata Agrico, further progress in NIF's association with the Future Group and the tie-up with the Reliance Foundation for social diffusion of select technologies in different parts of the country. These are the signs of the things to come and I hope

that in the coming years, many more industries will come forward to join hands with NIF in making India a leader in sustainable inclusive technologies.

A huge response for Ignite competition for creative ideas among school children continues to inspire us. The response for the three Gandhian Inclusive Challenge Awards announced last year during the Sixth National Award function was not so encouraging. This is a cause of concern and we have to use new approaches to mobilise societal contribution for solving persistent problems, particularly affecting women.

The Hon'ble President, Shri Pranab Mukherjee ji continued the tradition to honour grassroots innovators and host the innovation exhibition at the President House. He, infact, has tried to institutionalize innovations within the education system by asking the Central Universities to start National Innovation

Clubs, set up Inspire Teacher Networks and organize innovation exhibitions. When the Head of the State champions the cause of innovations, the dream of an inclusive and innovative India will get fulfilled eventually. I must say that the one hour meeting with the Hon'ble President that Prof. Anil Gupta and I had in late January 2013, where a number of these thoughts were triggered, was spontaneous, inspiring and motivating.

I am also very happy to note that NIF managed to organize back to back two national award functions within a span of a year. I congratulate every member of our team NIF. I am sure that they will be able to keep up their high motivational level and rededicate themselves to the challenges ahead.

With my best wishes

R. A. Mashelkar





Anil K Gupta  
Executive Vice Chairperson, NIF, Ahmedabad  
Professor, Indian Institute of Management,  
Ahmedabad

## *Introduction*

Serving thousands of grassroots innovators and outstanding traditional knowledge holders all over the country is a mission that requires constant innovations. NIF has tried to experiment with different models of reaching out to creative people and mobilizing their ideas for further development and diffusion. One of the models that NIF has explored more effectively in the last year is of joining hands with the corporate sector to blend the strengths of both informal and formal sectors.

TATA Agrico has been an international player in the field of agricultural machineries since 1925. NIF and TATA Agrico have joined hands to expand market opportunities for grassroots innovators. A sugarcane bud chipper, manufactured by an innovator has been commercialized through the network of TATA Agrico dealers. Many more opportunities of similar kind are being

explored by NIF to diffuse innovations widely.

Another company is being set up jointly with Future Group to provide retail outlets for market-friendly technologies. The demand for innovations from around the world continues to pour in proving the validity of g2G [Grassroots to Global] model.

The contribution of the Honey Bee Network in mobilizing new entries and disseminating open source ideas remains one of the most significant pivots of the entire gamut of activities pursued by NIF. More than twenty thousand entries were pooled by the Network volunteers during the year. In March 2013, NIF organized the 7<sup>th</sup> National Biennial Award function to honour the innovators at the hands of the Hon'ble President within a year of organising the 6<sup>th</sup> National Award Function. This was done to ensure that all future functions are held on time.

Heavy strain so caused was borne by the entire team of NIF and Honey Bee Network with a great dedication. Holding the award function at Rashtrapati Bhawan provides a unique opportunity for commending the creativity at grassroots. India is perhaps the only country where the Head of the State not only honours creativity at grassroots but also hosts an exhibition of grassroots innovations at President's house. NIF is committed to uphold the trust the society has put in it for the purpose.

Two Shodhyatras were organized by Society for Research and Initiatives for Sustainable Technologies and Institutions [SRISTI] in close collaboration with NIF and other volunteers of HBN. The 29<sup>th</sup> Shodhyatra was pursued from Jamonia dam to Nilkanth, Sehore, Madhya Pradesh. Though located very close to the state capital, Bhopal, the conditions of the tribal communities was not something that one can take pride in.

The aspirations on the other hand were extremely high among men and women in almost every village. One of the most remarkable learning was the range of ideas imagined by children met during yatra. It showed clearly that the only reason many of these children may not be able to realize their full potential will be access to good quality schools and nurturant mentoring. In terms of talent, they were second to none. The 30<sup>th</sup> Shodhyatra started from Chandrapur to Kolhen, Manipur during January 2013 involving yatris from India and abroad. It was distressing to see the neglect of the region in one of the sensitive border areas. However, NIF has decided follow up the interest several communities showed in trying out innovative solutions from within as well as outside Manipur. The creativity of children was evident in every village where idea competitions were organized. The hospitality and warmth of the local communities touched the heart of every yatri.

The entries received for the first Gandhian Inclusive Innovation Challenge Award, announced during the 6<sup>th</sup> Biennial Award Function in March 2012, were reviewed by a panel of experts. Subsequently, selected participants were invited to submit the working models. The three challenging problems for which solutions were invited were: a manual paddy transplanter, a device for picking tea leaves and design of a multi fuel low cost cooking stove. As is apparent, all the three problems concern the women whose needs in these cases have been neglected for decades. The response was not very encouraging and NIF proposes to re-announce these challenges along with some new ones.

Developing solutions to the persistent problems may not always take place through endogenous innovations. There are times when not only challenges have to be announced but collaborative initiatives have to be taken to involve

innovators in solving these problems. Former President, Smt. Pratibha Patil shared a serious problem of Vidharba region, Maharashtra with the NIF team. Providing irrigation during the critical stage is crucial for saving the crop. Given the socio-ecological condition, it is not easy to bring water from distance and provide life-saving irrigation efficiently and cost effectively with the existing means. Smt. Patil took personal interest and co-designed with the close involvement of several grassroots innovators, a tanker based mobile sprinkler system. It can transport water collected from a tank and sprinkle it in the field at the critical stage.

The IGNITE competition for children attracted 14,889 entries from children in school and out of school from 282 districts of the country. The awards were given by Dr. A.P.J. Abdul Kalam, former President on November 8, 2012 at IIMA to encourage children. In almost all the cases,



NIF tried to get a prototype made and file the patent in the name of student. Government of India has conceived a new scheme of providing 1000 scholarships to children for creative ideas with the help of National Innovation Council. NIF is likely to play a critical anchor role to implement the scheme with the help of various outstanding academic institutions all over the country.

NIF also supported the IIMA and Honey Bee Network to organize the second ICCIG Conference in China and India to collate the lessons the Network had learnt over the period of last twenty five years. As a befitting conclusion to the Conference, the Ahmedabad Declaration was drafted taking into view ideas from both from Tianjin and Ahmedabad.

At the suggestion of the HBN, the Hon'ble President also announced starting an Inspired Teacher Network and setting up

*In Support of Grassroots Innovations*

National Innovation Clubs (NICs) at each Central University to help create an inclusive innovative eco-system in the country by searching, spreading, sensing (the unmet needs) and celebrating creativity at the grassroots. NIF has also started the process of conceptualizing its campus - National Inclusive Innovation Center (NIICent) at Amrapur, Gandhinagar on land provided to it by Grambharati Trust, a Gandhian institution.

I hope that support of all the volunteers of Honey Bee Network will continue to be available to NIF so that it can continue to create new benchmarks of service to the creative communities at grassroots. I pray that we all get strength enough to come up to the rising expectations of knowledge rich-economically poor people, young children and other stakeholders.

I must thank the Department of Science and Technology, Government of India for their unstinted continued support. Faculty, students, and staff of Indian Institute of Management Ahmedabad have also been a great source of strength to NIF in its all activities as ever.

Various scientists, IPR attorneys, design firms, and numerous other professionals have contributed immensely in helping NIF in achieving its missions. I must put on record highest appreciation for the leadership of Dr. Vipin Kumar, Director and Chief Innovation Officer of NIF for motivating the entire team to accomplish so much in the year. I hope that they will keep it up and spare no effort to serve the creative communities of our country.



Anil K Gupta





Vipin Kumar  
Director and Chief Innovation Officer  
NIF, Ahmedabad

## *Director's message*

A year of great hope is what I will describe the last year as. With a number of new partnerships and initiatives, with greater vigour we have begun to move towards realizing the targets we have set for ourselves. When we started functioning little over a decade ago, there were no benchmarks for us to emulate. Over the years, we have moved from strength to strength, creating our own benchmarks, improving them and learning in the process. This collective learning has always helped us to calibrate our sensitivities and systems so as to improve our delivery over geography and time.

The year that went by is a testimonial to this fact. The young team at National Innovation Foundation-India could manage organizing the Seventh National Biennial Award function at the President House within a year of the Sixth Award Function, generate unprecedented response to the Ignite 12 competition, forge new linkages for social and commercial

diffusion of innovations, engage research institutions for value addition and product development, and undertake many other activities for the promotion of grassroots innovators by the Hon'ble President of India, Shri Pranab Mukherjeeji reemphasized the richness our creative individuals and communities at the grassroots are blessed with. The former President of India, Smt Pratibha Devisingh Patilji continued to bless and motivate our innovators. Reputed industrial conglomerates joined hands to take the agenda of grassroots innovations forward, media played its part to generate awareness and disseminate useful information, and the Honey Bee Network volunteers continued their unstinted support to NIF as ever.

With great respect, I wish to thank our Chairperson, Dr RA Mashelkar and Executive Vice Chair, Prof Anil Gupta for their inspiring leadership, tremendous

motivation and guidance they provide to all of us. The continued support of Dr. T Ramasami, Secretary, and other officials of the Department of Science and Technology enabled us to achieve the desired goals. Indian Institute of Management deserves a special mention for all the support it provides round the year in various activities of the organization. I also take this opportunity to thank all my colleagues at NIF and in the Honey Bee Network, for all the hard work and support, and demonstration of a great spirit of cooperation. I hope that such camaraderie would continue in the years to come and help us serve the cause of the grassroots innovations in the most appropriate manner.

With my best wishes to all



Vipin Kumar

## Governing Board

Dr. R A Mashelkar - Chairperson  
National Research Professor, National Chemical Laboratory  
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Prof. Anil K Gupta - Executive Vice Chair  
Indian Institute of Management, Vastrapur,  
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Ms. Elaben Bhatt - Member  
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Scientist G, Adviser & Head, NSTEDB, Technology Bhawan,  
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Dr. Samir Brahmchari - Member  
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Director General, ICMR, V. Ramalingaswami Bhawan,  
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Shri Pradyumna Vyas - Member  
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Secretary, MSME - Ex-officio Member  
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Chief Secretary,  
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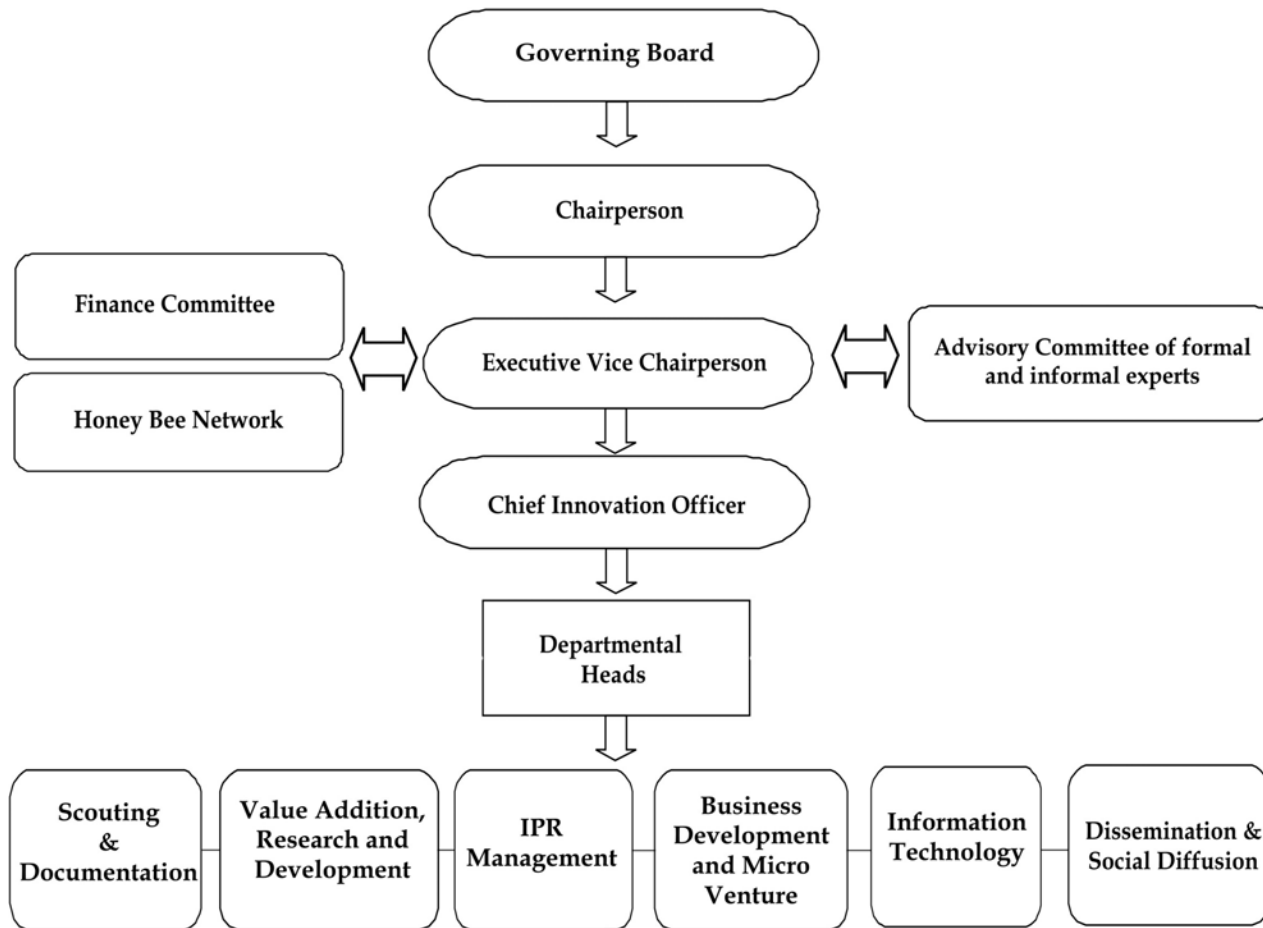
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## Organisational Chart



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## 1. New wings to innovation mission

Continuing the tradition of hosting an exhibition of Innovations at the President's House, National Innovation Foundation - India (NIF) organized the Seventh Biennial award function and the innovation exhibition during the year. The Honourable President Pranab Mukherjee gave new wings to the mission of making India innovative by deciding to meet with innovators at an exhibition of innovation at each central university, besides inaugurating National Innovation Clubs, and meeting inspired teachers during his visits. Children continued to surprise the nation by their creativity during IGNITE function at which former President of India encouraged them.

The year 2012-13 thus was yet another year of achievements for NIF. During the year, NIF successfully organized three national campaigns, supported validation and value addition of grassroots technologies, filed for intellectual property

protection, developed new linkages to take forward these innovations, and provided technical and financial support to innovators.

### **The learning and exploration walks: Shodh Yatras**

The 29<sup>th</sup> Shodh yatra was organised in the Sehore district of Madhya Pradesh from Jamunia talab to Neelkanth from May 23 to 30, 2012 by SRISTI, NIF and other Honey Bee Network members. Raj Kumar Rathore, NIF awardee, joined SRISTI team and NIF volunteers in scouting as well as

in detailed documentation. Over a period of eight days, about 65 yatris from different parts of the country and from abroad walked about 130 km together to learn from four teachers a) nature b) each other c) common people and d) inner self. During the shodh yatra the yatris organised village meetings, idea and biodiversity competitions among children and adults, met creative artisans, musicians, outstanding traditional knowledge holders and innovators. This journey of exploration on foot took the shodh yatris through villages, tiger reserve forests, fields, hills, and valleys. Shodh yatris also observed the colourful exteriors of houses that showed distinctive aesthetic sense of local communities. More than 350 ideas, innovations and practices were documented during the yatra.

Several innovations were carried by the yatris such as pulley with stopper made by Amrutbhai Agrawat and were gifted to villagers wherever greater interest was evident.



Some other open source technologies like head load carrier by Khimjibhai Kanadia were also displayed/ demonstrated.

The 30<sup>th</sup> Shodh Yatra was organized in the Churachandpur district of Manipur (Churachandpur to Tuilumjang) from January 12 to 17, 2013. Sixty people walked together through villages for more than 60 km. A rich treasure of traditional knowledge as well as contemporary innovations, creative crafts and rich cultural institutions was found during the yatra. In some of the villages, the local priest prayed together with yatri and villagers to wish success for the shodh yatra. Almost all the elders stood in line to wish the yatri as they left the village to continue their journey. It was not surprising that during idea competitions, most children articulated the vision of a school in the village as at many places; there was no school for four to five kilometres around. The apathy of development administration was quite visible in an otherwise sensitive region. A follow up action is planned through testing of some of the innovative devices such as food processing machinery and bamboo incense stick making devices.



IGNITE 12: Usman explaining his idea to Dr APJ Abdul Kalam

### IGNITE 2012: Celebrating children's creativity

The annual national competition of technological ideas and innovations by school students saw tremendous participation from all over the country. During the campaign period from October 16, 2011 to August 31, 2012, 14, 889 ideas were received from 282 districts across 30 states and union territories. Of these 16 ideas of 31 students were selected by an

expert committee for recognition in the IGNITE 2012 award function. An additional 10 students earned a special mention of their ideas. For the first time this year, five students received the 'Kite Flying Idea Award' for sharing 'ahead of their time' ideas. This award is inspired by the thought that today's absurdity may become tomorrow's reality. These were ideas that may sound irrational now but could become possible later with technological advances. Interestingly, the winners represented different parts of the country, coming from 19 districts spread across 14 states. The awards were announced on October 15, the birthday of Dr APJ Adbul Kalam, celebrated as Children's Creativity and Innovation Day by NIF.

The awardees and their families were invited to the award function organized at the RJMCEI auditorium at IIM, Ahmedabad campus on November 10, 2012 where Dr. Kalam gave away the awards. NIF got prototypes developed and also filed patent applications in the children's names for most of the award winning ideas. A tablet PC manufacturer WishTel also gifted 31 mini tablets,

containing soft copies of previous IGNITE award books and other content from the Honey Bee Network, to the students.

The function kicked-off with an exhibition of the prototypes of the awarded ideas. Excitement of seeing their ideas turned into reality was visible on children's faces. The exhibition area bustled with energy as award winners, their families, media representatives, students and teachers from local schools and other visitors moved around, talking to children about their ideas and seeing the working prototypes.

Dr. Kalam motivated the children to believe in themselves. He urged them to make unique contributions by giving examples of various pioneer inventors. Through lively instances from his professional life, he encouraged children to make a real difference in their own and social life. An animation film on IGNITE was also screened for the first time and was well-received by the audience.

*In Support of Grassroots Innovations*

### **The Seventh National Biennial Grassroots Innovations and Outstanding Traditional Knowledge Award Function**

The much awaited 7<sup>th</sup> National Biennial Award Function was organized near Mughal Garden, Rashtrapati Bhavan on March 7, 2013 at 12.30 pm. A total of 54 awards were given to 64 innovators and five community representatives in the function. The Hon'ble President of India,



*7th National Awards: Anna Saheb receiving Lifetime Achievement award from the Hon'ble President*

Shri Pranab Mukherjee gave away twenty National awards to the outstanding grassroots innovators of the country. He also gave the lifetime achievement award to Annasaheb Udgavi from Belgaum, Karnataka. On this occasion, the President released the second edition of the book 'India Innovates'. Shri Jaipal Reddy, Union Minister for Science and Technology, Dr RA Mashelkar, Chairperson NIF, and Dr T Ramasami, Secretary DST shared the dais with the Honourable President. Many other dignitaries including many

Secretaries to the Government of India and other senior government officials were also present on the occasion. Representatives from various Embassies/ Consulates and industry, academicians, civil society members, students also attended the function among others.

The awarded grassroots innovators were selected from over 19, 000 submissions received

during the competition period *viz.* from February 1, 2009 to March 31, 2011. These awards were decided after rigorous screening at different levels. All the entries were subjected to technical and patent and non-patent prior art search to ascertain the novelty/distinction, cost effectiveness and social applicability. Three Research Advisory Committees (RACs) comprising the Heads of the top R&D

institutions, experts from Engineering, Agricultural and Veterinary Colleges, Vice Chancellors of various Universities besides grassroots innovators (winners of previous rounds of award function) from different parts of the country screened the short-listed entries. The RAC to review shortlisted engineering innovations was chaired by Prof Ashok Jhunjhunwala, IIT Madras while the RAC to review agriculture and veterinary related entries



*7th National Awards: Susant Pattnaik demonstrating his innovation to the Hon'ble President*

was chaired by Prof PL Gautam, the then Chairperson PPV&FRA, New Delhi. The third RAC comprising grassroots innovator experts from the informal sector was jointly chaired by Shri Sundaram Verma, farmer innovator and Shri Gurmail Singh Dhonshi, innovator and NIF's National Award Winner.

Dr. RA Mashelkar, Chairperson, NIF extended a warm welcome to the guests

mission by starting National Innovation Clubs and organising innovation exhibitions during the Presidential visit.

Shri S Jaipal Reddy, Union Minister of Science and Technology, in his speech, mentioned that the recognition at the hands of the President conveyed the trust the country has in its innovators. Differentiating grassroots innovations from innovations in formal sector, he

and thanked the President for taking the agenda of innovations forward in the current decade of innovation. Prof Anil K Gupta also thanked the President for his support to the innovation movement. He also briefly recalled the initiatives the Hon'ble President had taken to involve Central Universities in this

remarked that grassroots innovation 'aims to democratize innovation both as a process and product' and that they had the potential to 'include the excluded'. He referred to the announcement of Rs 200 crores in the Union budget to leverage the commercialization potential of innovations sourced through different means including those promoted by NIF. Thereafter the lifetime achievement and national awards were given away by the President.

In his award address, the Hon'ble President, Shri Pranab Mukherjee expressed his happiness on the fact that the awardees of all ages came from different parts of the country. Speaking particularly about student innovators, he mentioned that starting early gives a whole life time of creativity to the person. He noted that many innovations awarded in the function demonstrate the ability of innovators to deliver frugal and effective solutions. He remarked that India was perhaps the only country where grassroots innovations are a part of the National Innovation System. He stressed that the time had come to institutionalize the culture of innovation

at all levels of public administration as well. The President then inaugurated the Innovations' Exhibition organised at the venue and interacted with the award winners.

In the second half of the function, Dr. RA Mashelkar gave away eight state, seventeen consolation, one diffusion, seven partnership, three media awards along with one scout award. Four innovators were also given certificate of appreciation for their work. Dr. Mashelkar congratulated the award winners and mentioned how inspiring it was for everyone to see their creativity.

#### **Fourth Innovations' Exhibition at the President House, New Delhi**

The Innovations' Exhibition was successfully organized for the fourth consecutive year during March 7-12, 2013 at the Sports Ground, the President House. The President of India, Shri Pranab Mukherjee inaugurated the Innovations' Exhibition in presence of Shri Jaipal Reddy, Union Minister for Science and Technology, Dr RA Mashelkar, Chairperson NIF, Dr T Ramasami, Secretary DST, Prof Anil K

Gupta, EVC NIF and other dignitaries. The President showed keen interest in the innovations displayed specially those of the children. He interacted with the award winners and appreciated their work.

It was an extra ordinary privilege for the innovators to have former President of India, Smt. Pratibha Devisingh Patil, to not only invite innovators at her place for an evening of sharing their ideas but also visit the exhibition on the closing day.

Shri B.L. Joshi, Hon'ble Governor of Uttar Pradesh, Shri Abhishek Mishra, Minister S&T, UP Government, Secretaries to the Government of India of the Departments of Tribal Affairs, Agricultural Research and Education, Performance Management Division, Disinvestment, Scientific and Industrial Research, representatives of many Embassies and Consulates, Vice Chancellors, Director of Institutions among others visited the exhibition to encourage the innovators. Representatives of the Global Research Alliance (GRA) from many countries also met the President at the exhibition venue and also went around the exhibition. One

of the members took the pepper harvesting device and later sent a very encouraging feedback.

A mind-to-market pavilion displaying thirty nine technologies ready for technology licensing was also set up at the venue. Prior to the exhibition, the Business Development (BD) team of NIF had got in touch with many entrepreneurs all across the country exploring licensing possibilities. About 120 entrepreneurs showed interest in the innovations and about forty five of them visited the exhibition. During the exhibition, over 450 business queries were generated. Another meeting of fabricators was also organized at the venue where many fabricators from Ludhiana

and Delhi participated.

This opportunity was also utilized to organize a meeting of innovators, many of whom volunteered to look for more creative people like them from their region. Idea competition for school students was also organized on all the six days of the exhibition. The event was well covered by media with articles on the award function and exhibition appearing in all national

dailies. A couple of film makers also profiled many innovators. A team from Surabhi Foundation also profiled many grassroots innovators for one of their upcoming series on innovations.

### **Gandhian Inclusive Innovation Challenge Awards**

In response to the three technological challenges *viz.* development of a manual paddy transplanter, a fuel efficient wood/ bio mass stove and a tea plucking device announced during 6<sup>th</sup> National Biennial Award Function in March 2012, NIF received more than 500 entries. Fifty four entries were short listed by an expert committee for developing prototypes to be submitted to NIF by March 31, 2013.



## 2. Activities

### a) Scouting and Documentation

#### *National Biennial Competitions*

The Eighth National Biennial Competition for unaided grassroots innovations and outstanding traditional knowledge (2011-13) concluded on March 31, 2013 with about 42000 submissions of which approximately 35000 were found to be eligible for consideration in the competition. The review of entries received for the Eighth competition has already started. The Ninth National Biennial Competition, which started receiving entries from April 1, 2013, will continue till March 31, 2015.

#### *IGNITE campaign to harness the creativity of children*

IGNITE 13, the national competition for students' ideas and innovations, is accepting submissions till July 31, 2013. So far over 5000 submissions have been received for the same. The awards will be declared on October 15, 2013, the birthday of Dr. APJ Abdul Kalam, celebrated by NIF as Children's Creativity and Innovation Day.

#### *Workshops and meetings*

As a part of the capacity building program, a regional workshop was organized for scouts, volunteers and regional staff on April 19-20, 2012 at GIAN Cell, University of Kashmir, Srinagar, J&K and a national level workshop on May 3, 2012 at Ahmedabad in collaboration with SRISTI. A total of forty scouts, volunteers and staff were given orientation for scouting and documentation activities. A series of interactive workshops were also organized in Dhemaji and Tinsukia districts of Assam (April 18-19, 2012), Thiruvanthapuram district of Kerala (May 15, 2012) and Sehore district of Madhya Pradesh (May 23, 2012). About one hundred and ten innovators / traditional knowledge holders participated in these workshops.

For expanding the network for scouting and documentation, a meeting was organized at Churachandpur district, Manipur on August 21, 2012 in collaboration with local partners *viz.* Kuki Innpi Manipur and SPTWD, Manipur branch. A presentation on scouting and documentation of GRIs was also made in

a conference held on June 28, 2012 at Birsa Agricultural University, Ranchi. Interactive workshops and meetings were organized with innovators and knowledge holders at Hazaribag district of Jharkhand (June 29, 2012), Churachandpur district of Manipur (August 21, 2012), Udham Singh Nagar (November 3, 2012) and Kathua districts (November 4, 2012) of Jammu and Kashmir (J&K). More than a hundred innovators/traditional knowledge holders participated in these meetings and workshops.

Honey Bee Network meeting of key scouting collaborators was organised on December 8, 2012 at Ahmedabad where old and new network members from eight states *viz.* Himachal Pradesh, Gujarat, Andhra Pradesh, Kerala, Tamil Nadu, Manipur, Orissa and Assam participated. Strategies for effective scouting of innovations, detailed documentation of practices, organizing regional network meetings and promoting dissemination activities were discussed. This was an attempt to recalibrate and fine-tune the ongoing scouting and documentation efforts. A herbal healers' meeting was also

organized on February 28, 2013 in Oinam and Heinoubok areas of Bishnupur district of Manipur to discuss the details of the benefit sharing mechanisms for novel poultry practice chosen for recognition in the 7<sup>th</sup> National Award Function.

### ***Shodh Camp***

A three day Shodh Camp during September 19-22, 2012 was organized in the Ganderbal district of Jammu and Kashmir. Eight members from the J&K team and a colleague from NIF participated in the activity, under which they walked in different directions everyday to scout ideas, innovations and traditional knowledge examples, about a hundred of which were collected. Information about a community preserved paddy variety, *Kotar Nal*, was gathered during the camp. This is the first such example of a farmer/community developed paddy variety reported from J&K. During the camp, brainstorming meetings were conducted to discuss the road map for further scouting and documentation in the region and beyond.

### **b) Value Addition, Research and Development**

#### ***Seventh National Research Advisory Committee meetings***

In case of engineering innovations, meetings were organized at Central Institute of Agricultural Engineering Bhopal; College of Technology and Engineering, MPUAT, Udaipur; International Centre for Automotive Technology, Gurgaon, The Energy and Resources Institute, New Delhi, Rubber Research Institute of India, Kottayam; College of Agricultural Engineering & Technology, JAU, Junagadh for getting feedback of experts on potential grassroots innovations considered for 7th National Biennial Awards. Feedback was also received from Central Coir Research Institute, Alleppey; Directorate of Groundnut Research, Junagadh, Director of Agriculture, Sambalpur and District Collector, Alappuzha on some grassroots technologies. Request for feedback was also sent to respective District Collectors, Agriculture Officers, Research Institutes etc. The promising engineering technologies were presented to the National Research Advisory Committee

(RAC) meeting held on January 2, 2013. To evaluate agriculture and herbal technologies, RAC meeting was organised on January 3, 2013. All promising technologies were also presented before the RAC meeting of grassroots innovator experts from informal sector on January 4, 2013.

#### ***NIF-ICMR collaboration***

The SFC document, for validation of non-codified health claims, was presented in a SFC/EFC meeting held on July 6, 2012, chaired by the Secretary, DHR. Another expert group meeting to finalize the protocols for validation of herbal healers' claims was organized at IIM Ahmedabad during July 16 - 17, 2012 and at VPCI, New Delhi on August 24, 2012. A meeting of experts to discuss the possibilities of re-validation and adding value to potential leads was held on September 6, 2012 at CSIR Science Centre, New Delhi. Necessary follow up including collection of plant samples and dispatch of extracts has been taken care of as per schedule.

A project to increase the capacity of SRISTI-Sadhbhav-Sanshodhan Laboratory for screening of pathogenic



microbial strains against herbal extracts was sanctioned by ICMR. SRISTI Laboratory is the only lab in India dedicated to work on the practices of grassroots innovators and traditional knowledge holders. NIF had earlier entered into an agreement with SRISTI for validation of grassroots innovations and traditional knowledge practices and this cooperation continues.

#### ***Herbal Agriculture, Human and Veterinary technologies***

Extensive efforts were made by NIF for testing and validation of promising herbal human technologies. About 70 herbal leads/technologies were sent for evaluation at National Institute of Malaria Research, Delhi; B V Patel PERD Centre, Ahmedabad; Bangalore University, Bangalore; Christ Church College & GSVM Medical College, Kanpur; Oxford College of Engineering, Bangalore etc. Four herbal extracts were tested for their effectiveness against *Plasmodium falciparum* isolates. Significant results were found in the case of three herbal extracts when compared to control drug Chloroquine. Twelve herbal extracts were sent for evaluation against clinical isolates

of Dermatophytes; out of which five were found effective. Three practices were evaluated for anti-epileptic activity and results revealed significant activity.

Twelve plant varieties (one each of paddy, carrot, brinjal, ridge gourd, mustard, chilly, fennel, and bottle gourd and two each of pigeon pea and wheat) were sent for evaluation at Tamil Nadu Agricultural University, Coimbatore; Rajasthan Agricultural University, Bikaner and CCS Haryana Agricultural University, Hisar. Trial data of four plant varieties (pigeon pea, paddy, carrot, brinjal) was received out of which three plant varieties were found superior in different attributes/parameters studied.

Six plant varieties (one each of onion and cardamom and four of wheat) were sent for registration on behalf of farmer breeders to PPV&FR Authority. Two farmer varieties namely Kudrat 9 (wheat) and HMT (rice) have already been registered under PPV&FR, Act 2001.

Nine herbal preparations were sent for validation at S.D. Agricultural University, S. K. Nagar. The interim reports of the

field trials were received and the formulations were found moderately to highly effective in controlling various pests and promoting growth of Okra. Final report of the trials is yet to be received. Ten herbal agriculture products based on grassroots innovations were sent for efficacy evaluation at Punjab Agriculture University and GBPUAT, Uttarakhand. The trials are being conducted on vegetable and other crops in field conditions and the results are likely to be received by the end of the year.

Eleven herbal formulations were evaluated for their ability to control various pests and promote crop growth at Grambharti research farm and farmers' fields. Different formulations were found effective to varying extent in controlling various pests in field conditions. Five formulations (KKP, RM, RP, VP, MLS) showed reduction of leaf folder population ranging from 24 to 55%, highest with VP. Formulation GC exhibited about 61% reduction in the pest population per plant higher than positive control. *Ficus* and bamboo based herbal preparations were evaluated for their ability to promote the growth of crop. Both

the formulations increased the number of branches, flower and fruits as compared to the control.

Validation activities were taken up for 72 technologies for curing ailments like bloat, retention of placenta, post partum anestrus, ectoparasite infestation, galactagogue, ephemeral fever, babesiosis, enteritis, mastitis, black quarter, colic, endoparasite infestation, sprain, besides for formulations showing tonic properties in animals and for alleviating respiratory distress, bacterial infections in poultry. Trials were conducted with the help of veterinary institutes viz. Nagpur Veterinary College, Nagpur; Bombay Veterinary College, Mumbai, College of Veterinary sciences, Udgir and College of Veterinary and Animal sciences, Parbhani, MAFSU, Maharashtra, Madras Veterinary College, TNUVAS, Tamil Nadu, College of Veterinary Science, SKUASAT, Jammu and Kashmir and College of Veterinary and Animal Sciences, and CSK

HPKV, Himachal Pradesh. New linkages for evaluating indigenous medications for curing poultry ailments were established at Veterinary University Training and Research Centre, TNUVAS, Salem, Tamil Nadu and College of Veterinary Science, KVAFSU, Hassan, Karnataka. In clinical trials, herbal medications for bloat, post partum anestrus, retention of placenta, anthelmintic properties, and bacterial mastitis were found to be quite promising.

*Value addition in and validation of engineering technologies:*

Performance evaluation reports of most of the innovations shortlisted for presentation before the Research Advisory Committee were received. Projects were

started at Indian Institute of Technology, Gandhinagar for value addition in the low cost windmill for pumping brine and electricity production in rural areas; SKM designs Pvt Ltd, Faridabad, Haryana for design improvements in travel bag with seating arrangement; Automotive Research Association of India (ARAI), Pune, Maharashtra for testing of pollution controller; and Navsari Agriculture University, Navsari, Gujarat for testing of Natural clay freeze (Mitticool); JNTU College of Engineering, Hyderabad for testing of the castor oil fuel engine; Central Institute of Agricultural Engineering, Bhopal for validation of modified knapsack sprayer; College of Engineering and Technology, Maharana Pratap University of Agriculture and Technology, Udaipur for validation of modified water heating stove; Indian Institute of Technology, Guwahati for validation of modified engine; College of Agricultural Engineering & Technology, JAU, Junagadh for validation of mobile groundnut thresher and M/s Platypus Designs Pvt Ltd, Ahmedabad for developing prototype of manual paddy transplanter. NIF invested about Rs



*Improved version of Nisha Chaube's travelling bag with folding seat*

42 lac for these R and D, and design activities involving various institutions.

### ***Expansion of fabrication facilities***

Under an understanding between NIF and Electronics and Quality Development Centre (EQDC), Gandhinagar signed on March 26, 2012, the digital Fab Lab, which was set up with the help of MIT's Fablab network in 2009 has been shifted to EQDC. Few new machines for basic fabrication like lathe, milling machine, drilling machine, welding machine, sheet cutters etc., were also purchased.

NIF also supported strengthening/building community workshops at innovators' places in Deoria (Uttar Pradesh), Sambalpur (Orissa), Lohardaga (Jharkhand), Kanker (Chhattisgarh) and Jaipur (Rajasthan) by investing total amount of about Rs 16 lac. Apart from this NIF also provided direct support of over Rs 10 lac to innovators.

### ***Internships***

NIF also offered internships opportunity to students from National Institute of Fashion Technology, Bangalore, National Institute of Fashion Technology, Shillong,

MIT institute of Technology Pune, Cluster Innovation Centre, University of Delhi, etc.

### **c) Business Development and Micro Venture**

#### ***Micro Venture Innovation Fund (MVIF)***

Financial support for nine projects was provided to innovators under MVIF. About Rs 31 lac were disbursed of the total Rs 35.5 lac sanctioned this year. An amount of Rs 53 lac was received towards MVIF repayment from the innovators.

#### ***Technology transfers/ renewals***

Non-exclusive international marketing rights of Mitticool Clay Products were given to Altair Management Consultants, Dubai. The technology of Innovative Water Pot was transferred to Mansukhbhai Prajapati, NIF awardee. Mansukhbhai also received an order of 100 units of Mitticool refrigerator from Hobro Corp, USA.

GIAN/NIF transferred the non-exclusive manufacturing and marketing rights of manually operated household sugarcane juice extractor to an Ahmedabad based

entrepreneur who considerably improved the design. The same was demonstrated during the traditional food festival in Dec 2012 at IIM Ahmedabad.

In March 2012, NIF had acquired the intellectual property and associated knowledge rights and/or independent rights of Bicycle Weeder of Gopal Bhise under the Grassroots Technological Innovation Acquisition Fund (GTIAF). In November 2012, NIF transferred non-exclusive manufacturing and marketing rights of bicycle weeder to an entrepreneur from Hyderabad, who has developed fixtures for standardizing the weeder.

NIF also facilitated the renewal of an earlier technology transfer of Solar Natural Water to an Amrawati, Maharashtra based entrepreneur through GIAN West. Under the agreement, the entrepreneur would have exclusive manufacturing and marketing rights for the innovation in the state of Maharashtra.

***'Idea India ka Innovations Pvt. Ltd.'***  
***company in collaboration with Future***

### ***Group for commercialization of grassroots technologies***

A for-profit company 'Idea India ka Innovations Pvt. Ltd' was set up by NIF and Future Group to work on NIF technologies by conducting market research, developing and making products for global markets. The company has shortlisted several products that were selected under the joint Khoj lab initiative earlier. Fifty per cent stakes would be held both by NIF and Future Group with NIF making its investment only in the terms of technologies on behalf of the innovators. The company will bring out products that are truly 'Indian', and will be branded as "Idea India ka". Further progress has been a bit slow but it is expected that momentum will pick up soon.

### ***Agreement with Tata Agrico for commercialization of grassroots innovations***

As a part of perhaps a small breakthrough, an MOU was signed on January 6, 2013 between NIF and Tata



*Sugarcane Bud Chipper taken up as the first innovation under the MoU with Tata Agrico*

Agrico to collaborate in the areas of agricultural implements. Under the agreement, the Agrico will co-brand the technologies developed by the grassroots innovators registered at NIF. The initiative has begun with co-branding of the Sugarcane Bud Chipper of Roshanlal Vishwakarma. The Agrico will procure the bud chipper from the innovator and will sell through TATA outlets and a fixed margin will be paid to the innovator. Once the pilot is over, other technologies from NIF database will be co-branded under this arrangement.

### ***MoU with ISIS Innovation, Oxford University***

In order to promote grassroots innovation globally, NIF signed MoU with ISIS Innovation Limited, which is Oxford University's technology commercialisation company. Under the scope of the MoU, various activities have been planned, which include international marketing, accelerated technology assessment and commercialisation pathways, strategic support, training and entrepreneurship, technology development support, relationship with industry and investors and technology and company acquisition support.

### ***Setting up the innovators' companies***

NIF initiated the setting of Proprietorship or Pvt. Ltd. companies for innovators and in the first phase 13 innovators were approached. This initiative will help innovators in manufacturing and marketing of their products and also attract investors. The company of one

innovator has already been formed while the process is on for the rest of them.

### ***Organizing Technology Clearing Houses***

In order to attract fabricators, entrepreneurs and investors, an advertisement was given in Nov and Dec 2012 in leading newspapers, as a result of which NIF received about 300 inquiries. A mind-to-market pavilion displaying technologies ready for technology licensing was also set up at the 4<sup>th</sup> Innovation Exhibition at the President House in March 2013. Further tie-ups are being pursued with interested companies for commercialisation of various technologies.

### ***Other Activities***

The Business Development (BD) team also participated in World Tea and Coffee Expo exhibition for social and commercial diffusion related activities of innovations related with Tea and Coffee. NIF shared platform with over 450 other exhibitors from eight Indian states and thirty nine countries in the Global Investors Meet (GIM) organized at Bangalore by the Karnataka government during June 6-8, 2012. During the event, which saw over

40, 000 visitors, NIF displayed eleven innovative products and distributed NIF literature. NIF BD team also engaged MDI, Gurgaon to organize the business plan competition for grassroots technologies.

### ***Internships***

BD NIF also offered internships opportunity to students from IIM, Ahmedabad, PDP, Gandhinagar, IRMA, Anand, SID, Pune, GB Pant Institute of Social Science, Allahabad etc.

### **d) Intellectual Property Rights Management**

During this financial year, with the *pro bono* help of various law firms, a total of 94 patent applications including one application under Patent Cooperation Treaty (PCT), were filed. Six applications for protecting farmers' developed plant varieties were also filed with the PPV&FR Authority. NIF also received International Search Authority (ISA) reports for 23 applications filed under PCT and First Examination Reports (FER) of 27 applications from Indian Patent Office. IPR team also coordinated with National

Biodiversity Authority (NBA) in connection with 62 applications.

### **e) Information Technology**

#### ***New look website***

NIF switched over to a new look website in April 2013 with the search being optimized, and all award sub domains developed in a uniform format. The official website banner of NIF has been designed by Abhishek Bhagat, student innovator and, IGNITE 2009 and National Award winner in 6<sup>th</sup> National Biennial Awards 2012.

#### ***Online Idea Submission platform for IGNITE***

An online idea submission platform has been developed (in testing phase) in open source software for NIF website. This platform will enable submission of ideas, commenting, liking, sharing of ideas on social media and short listing of ideas.

#### ***Online dynamic maps of community workshops, partners and NIF awardees***

Online maps of awardees of NIF's National Competitions, community workshop network, partners working

with NIF, have been developed incorporating various filter/search options. The map can zoom in/out and panned across as per requirement upto district level.

### ***Online Learning Log***

IT team has developed and deployed an online learning log for the staff where insights, news, instructions, suggestions etc., can be recorded chronologically. This learning log is expected to be an induction material for the new staff as well as the place to capture the tacit knowledge of colleagues.

### ***Prior Art Search Module***

A module to systematically record and link (related) Prior Art Search has been developed by the IT team to be linked to the database being used at NIF for innovation record keeping. It is being revised and upgraded after receiving suggestions from colleagues.

### ***NIF DVD and Kiosk software***

The work on the new NIF DVD with search facility has been completed. Subsequent to thorough checking of the data, the same would be translated in

Hindi. The same software with suitable modifications has been deployed in NIF's Information Kiosks.

### ***Honey Bee Newsletter CDs***

NIF uses CDs having old issues of Honey Bee newsletter for dissemination purpose. These CDs have been majorly upgraded with incorporation of provision of reading newsletters in a flip book style in addition to the option of being downloaded on the computer and opened as a regular PDF.

## **f) Dissemination and Social Diffusion**

### ***Social diffusion of GRIs***

In an effort to scale up the diffusion of grassroots innovations in relevant pockets of the country, NIF sanctioned proposals for introduction/ social diffusion of twenty five technologies in seven states. These projects will be implemented by various GIANS and GIAN cells and other regional collaborators.

### ***Grassroots Technological Innovation Acquisition Fund (GTIAF)***

During the 7<sup>th</sup> National Research Advisory Committee meetings, January 2-7, 2013, consultations were held with experts

seeking suggestions for social diffusion/ dissemination of the technologies acquired under the GTIAF in different parts of the country. Discussions on many technologies identified to be acquired under the GTIAF were also held during the meetings. In the current financial year, NIF acquired the rights of twelve socially useful grassroots innovations by paying the innovators a total sum of Rs 7, 25, 000 (Rs Seven lakh twenty five thousand only).

### ***Participation in Exhibitions and Fairs***

For the first time NIF participated in the Konkan Fruit Festival organised by Botanical Society of Goa during May 11-13, 2012 at Panaji. An exhibition of grassroots technologies was set up and newsletters, posters and CDs were distributed to the visitors. Special attractions for the visitors were the three models of amphibious bicycles developed by Mohd. Saidullah (Bihar) and Late Dwarka Prasad Chourasiya (Uttar Pradesh) displayed at the venue. The excitement was palpable as many visitors wanted to try these. The bicycles were handed over to the organizers so that these could be tried in ponds or sea and the feedback shared with NIF.

NIF along with PPV&FR Authority, ISPGR and Gene Campaign participated in the exhibition organized on the sidelines of the XI Conference of Parties to the Convention on Biological Diversity at Hyderabad during October 1- 19, 2012. A small exhibition of innovations of children was also put up at the INSPIRE camp (DST) held at Delhi during October 21-23, 2012. At the camp 1000 creative children from various parts of the country were invited to present their science based models. NIF also participated in the DST's Pavilion at the India International Trade Fair 2012 and put up an exhibition of grassroots innovations profiling mainly the multipurpose food processing machine, mileage enhancer for automobiles, low-cost remote for electric switches, animating T Shirt among others.

The 10<sup>th</sup> Traditional Food Festival "Sattvik 2012" was organized by SRISTI in collaboration with various Honey Bee Network partners during December 29-31, 2012 at Indian Institute of Management, Ahmedabad. NIF displayed many grassroots technologies at the venue, test marketed a few innovation based products, organized idea competitions

and had interactions with several entrepreneurs interested in licensing or buying various products. For dissemination purposes, many posters were put up and, newsletters and brochures distributed. Feedback of the visitors was taken on many grassroots technologies on display, which may be considered during the value addition process or preparing a business plan on these technologies. The innovations on display included a set of three machines for incense stick making, walker with adjustable legs, improved knapsack sprayer and coffee cooker. The response to the coffee making cooker was remarkable.

The 100<sup>th</sup> Indian Science Congress was organized with the theme '*Science for shaping the future of India*' at Kolkata, West Bengal during January 3-7, 2013. In the pavilion of Department of Science and Technology at Pride of India Expo, NIF put up a stall to showcase the work of grassroots innovators. Dharamveer Kamboj, innovator of multipurpose processing machine (Haryana State Award winner in 5<sup>th</sup> National Biennial Award function) and Shailendra

Rakhecha, innovator of T- shirt with animated designs (Consolation award winner in 6<sup>th</sup> National Biennial Award Function) also participated in the exhibition.

### ***Demonstration of technologies at the President House***

In March 2012, the then President of India Smt. Pratibha Devisingh Patil had suggested developing mobile irrigation systems for water scarce regions with rain fed crops. Many times farmers in dry regions have to suffer losses due to the delay in rain during critical stages of crop. NIF put forward this challenge before some grassroots innovators.

Dharamveer Kamboj (Haryana) and Radheyshyam Sharma (Madhya Pradesh) came up with solutions to meet the requirements. The same were demonstrated before her on July 7, 2012 at President House. While Dharamveer had modified a manual hand pulled rickshaw to carry upto 250 liters of water in the field and irrigate the crop using showers fitted in the boom mounted, Radheyshyam Sharma had developed a self propelled irrigation system with a

water tank of 300 liters, which can be moved in the field when crop height is less than 2.5 ft. Smt. Patil appreciated the efforts of innovators and NIF and liked the three technologies *viz.* rickshaw sprinkler, self propelled sprinkler cum sprayer, and tanker sprinkler. She also invited the Governor of Punjab, Shri Shivraj Patil to see the demonstration of the same on July 8, 2012 at Rashtrapati Bhawan. He much appreciated the efforts made by the NIF and grassroots innovators and assured to do needful for taking them forward.

#### ***Grassroots Innovations Exhibition cum Demonstration Van***

The necessary formalities related to registration and passing of vehicle have been done. Once the registration number is allotted, the Grassroots Innovations Exhibition cum Demonstration Van would be ready to travel around the country for documentation/ dissemination purpose.

#### **Media and Publications**

The Second edition of the India Innovates compendium was launched by the Hon'ble President, Shri Pranab Mukherjee

during the 7<sup>th</sup> National Grassroots Innovations Award function in March 2013 at President House, New Delhi. The 7<sup>th</sup> National Award book featuring the award winners of the Seventh National Biennial Competition for green grassroots innovations and outstanding traditional knowledge was also prepared for the occasion.

NIF prepared a special booklet featuring awarded plant varieties for the XI Conference of Parties to the Convention on Biological Diversity at Hyderabad during October 1-19, 2012. The same was distributed to the dignitaries and other participants of the Conference. A pen drive containing NIF literature was also given to many visitors.

A compendium of ideas and innovations of student award winners of NIF's Biennial Competitions and IGNITE competitions was prepared. Another booklet featuring the ideas and innovations of student award winners of the IGNITE 12 competition was also prepared for the Award function.

The Marathi version of India Innovates book was launched on Nov 17, 2012 by Dr. R. A. Mashelkar, Chairperson, NIF and Dr Vijay Kelkar, Chairman, 13<sup>th</sup> Finance Commission in Pune. India Innovates is a compendium of grassroots innovations from different parts of the country. India Innovates (Marathi) is a joint publication of SRISTI Innovations, Ahmedabad and Ameya Prakashan, Pune. During the 2<sup>nd</sup> International Conference on Creativity and Innovations at Grassroots (ICCIG) in December 2012, Shri P Vivekanandan, oldest Honey Bee Network collaborator from Madurai, Tamil Nadu also presented the book before all the delegates.

#### ***Radio Series on GRIs***

In partnership with Vigyan Prasar and All India Radio, a thirteen episode series profiling two innovators per episode was launched on January 24, 2013. The series, which was broadcast from all regional channels in regional languages, has concluded successfully.

#### ***Teenovation on Zee Q television channel***

NIF was the knowledge partner in the show Teenovation being telecast on Zee



Q channel. The twenty six episode television series profiled the winners and participants of the IGNITE competition of NIF. Teenovation also won an award for the best edutainment/knowledge based show in the 12<sup>th</sup> Indian Telly Awards 2013.

### **Conferences, Seminars and Workshops**

#### ***International Seminar on Scaling-up Rural Innovations, Lima, Peru***

Dr. Vipin Kumar, Chief Innovation Officer-NIF (CIO-NIF) represented SRISTI, NIF and Honey Bee Network in the International Seminar on Scaling up Rural Innovations organized by International Development Research Centre (IDRC) at Lima, Peru during May 7-9, 2012. Understanding how rural innovations develop, become more efficient and scale up, and how these innovations reduce poverty and inequality in rapidly transforming rural settings were the key themes addressed in this workshop. Besides the role of market and private stakeholders, the role of public policies was also discussed. Particular emphasis was given on grassroots innovations and cross pollination of practical ideas. Dr.

Vipin Kumar, who was the key note speaker of this workshop, shared the network's experience on grassroots ideas, cross-pollination and scaling up of innovations, local innovations and social inclusion in India.

#### ***The International Treaty on Plant Genetic Resources for Food and Agriculture Meeting***

Dr. Vipin Kumar, (CIO-NIF), attended the meeting of the Platform for the Co-Development and Transfer of Technologies of the International Treaty on Plant Genetic Resources for Food and Agriculture held at Brasilia, Brazil during August 7-8, 2012. The meeting was organized to plan for the development of a platform for co-development and tech transfer. Keeping in view the Rio six point action plans for the international treaty, it was decided to develop an integral global mechanism to promote, support and realize technology transfer to plant genetic resources for food and agriculture for the benefit of small farmers in developing countries, which could offer an innovative approach to effective benefit sharing.

Institutions based on their wide range of expertise will be involved to establish this platform, which will help in creating the methodologies to enable technology transfer to meet the need of beneficiaries. Further, the benefits are planned to include improved food securities, social and economical development, improvised resilience in farming system and improved capacity to adapt to climate change through the use of PGFRA.

#### ***2<sup>nd</sup> International Conference on Creativity and Innovations at Grassroots [ICCIG]***

The second International Conference on Creativity and Innovations at Grassroots [ICCIG] followed up on the recommendations of the first ICCIG held at IIMA in collaboration with SRISTI in January 1997. The impact of the first conference was witnessed in the form of founding GIAN (1997) and later NIF (2000). Another international workshop on Building a Global Value Chain around Green Grassroots Innovations (GRI) and Traditional Knowledge [May 31 - June 2, 2007, Tianjin University of Finance and Economics, Tianjin, China] was organised to provide mentoring, incubation and online support to innovators and

entrepreneurs in China, Brazil and India through a project supported by infoDev at SRISTI. The Tianjin Declaration for Promoting Green Grassroots Innovation for Harmonious Development was issued on the occasion.

The second ICCIG Conference was organised in China and India to update the collective understanding on the subject by inviting experts and practitioners in the field. The first part of the ICCIG was organized during December 3–5, 2012 at Tianjin University of Finance & Economics (TUFEE), Tianjin, China and the second part at IIM Ahmedabad during December 7–8, 2012. Through the Conference it was proposed to take stock of the current state of art in this field and consolidate the lessons of almost 25 years of research and action on the subject through the Honey Bee Network.

In the first part of the conference in China over 65 delegates participated from different countries viz. India, China, South Africa, South Korea, Zimbabwe, Switzerland, Japan, Mexico, and Germany. The participants also included grassroots innovators from India



*2nd ICCIG, Tianjin, China:  
Demonstration of wheelchair  
that can be used on stairs*

(Mansukhbhai Patel, Gujarat- Cotton Stripping machine; Dipak Bharali, Assam - Magnetic bobbin for design making in

handlooms, C Mallesham, Andhra Pradesh - asu making machine) and collaborators and policymakers. Some of the Chinese innovators featured in the network's publications viz. Chen Guangxing, LvShengzhan, Ding Wendou, and Li Rongbiao were also present along with various dignitaries from China's academia, industry and polity. Many interesting projects by TUFEE students were also presented. Some of these were not only novel but also had the maturity and pragmatism of the kind associated with seasoned practitioners. International perspectives were also brought forward in panel discussions. The Chinese section ended on a high note with innovators admitting to have gained better understanding of CHIN (China Innovation Network, counterpart of Honey Bee Network) coordinated by Prof Liyan Zhang, TUFEE and her team in China. They demanded passionately a stronger network there.

In the second part of the conference at Ahmedabad about 150 participants including innovators, innovative teachers, and delegates from different countries participated in the discussions.

The Ahmedabad part of the conference deliberately allowed for interactive sessions. Discussions on incentives to grassroots innovators, intellectual property protection, alternative models of incentives and attribution, structures of dynamic and static multilingual databases, strengthening online and offline platforms, identifying policy gaps, making innovation ecosystem more robust, respecting and promoting cultural creativity, education and tools for promoting a creative pedagogy took place. The Ahmedabad Declaration was drafted taking into view ideas from Tianjin and Ahmedabad. The Third ICCIG is planned in Dec 2014 or Jan 2015 with the active support of NIF.



*In Support of Grassroots Innovations*

## New Initiatives

### *Legacy of Presidency 2012-2017: innovation, education and society*

Dr R A Mashelkar, Chairperson, NIF and Prof Anil K Gupta, Executive Vice Chair, NIF, presented a vision of Honey Bee Network and NIF for building a legacy of innovation to the Honorable President on January 24, 2013 at the President House, New Delhi. This resulted in the announcement of starting an Inspired Teacher Network and setting up National Innovation Clubs (NICs) at each Central University on Feb 7, at the Vice Chancellor's conference chaired by the Honourable President. The idea is to link local innovators, artists and artisans with the formal system and create market opportunities for them. The Innovation Clubs

will *search* and *spread* innovations, *sense* or benchmark unsolved problems and *celebrate* the achievements of outstanding creative people around. It was discussed that at least one wall of every public building should be given to local folk artists to display their art and culture. This will help in creating an inclusive innovative eco-system in the country. The President decided that during his visit to various central universities, he would pursue a) meeting

with grassroots innovators and open an exhibition, b) inaugurate the local chapter of National Innovation Club, c) encourage university to provide support to the innovators and invite them to classrooms to inspire the students, and d) meet with inspired teachers.

### *National Innovation Scholarships for school children*

National Innovation Scholarship scheme suggested by the National Innovation Council and to be implemented by MHRD has almost been finalized and modalities are being discussed to launch the scheme in 2013. NIF would be the nodal agency to operationalise the scheme with the help of IITs in different regions.

Under the scheme upto 1000 children (individuals



*Legacy of Presidency 2012-2017: Meeting with the Hon'ble President*

or teams) per year would be identified from class 8<sup>th</sup> to 12<sup>th</sup> or out of school upto the age of 18 years for annual innovation scholarship (Rs 50, 000 - Rs 75, 000) to nurture their creative spirit and augment innovative ideas. Additional monetary incentives would be given to the student if s/he converts an idea into a prototype and then additionally if s/he files a patent for the same.



### **Institutional Policies**

*Official language policy:* For implementing the Official Language Policy of the Government, NIF has taken quite a few initiatives. All posters and dissemination material of NIF are available in both Hindi and English. Efforts are being undertaken to have all other publications in Hindi as well as other regional languages. NIF also supports dissemination of a Hindi publication, *Soojh Boojh aas paas ki* by SRISTI Innovations about grassroots innovations in the Hindi speaking belt. Additionally, NIF makes concerted efforts to promote regional languages as well. All

letters received by NIF in local languages are replied in the same language. For this the services of translators are taken. NIF also procures copies of the publication of newsletters in six regional newsletters *viz.* Oriya, Telugu, Tamil, Kannada and Malayalam and Gujarati for wider dissemination.

### **Administrative Matters**

#### ***Recruitment of Director/Chief Innovation Officer***

In an interview conducted by DST, Dr. Vipin Kumar was selected as the

Director/ Chief Innovation Officer of NIF. Dr Kumar accepted the offer and joined the position on Nov 22, 2012.

#### ***Recruitment of Scientists***

An interview committee under the chairmanship of Dr. RA Mashelkar interviewed twenty three candidates on July 7, 2012 and recommended for selection the following candidates

1. Dr. Ravikumar RK for Senior Innovation Officer/ Scientist D position
2. Er. Rakesh Kumar Maheshwari for Innovation Officer/ Scientist C position
3. Ms. Bhanumathi R for Innovation Officer/ Scientist C position

First two candidates accepted the offer and joined NIF. Ms. Bhanumathi did not accept the offer and thus it was withdrawn.

### ***Recruitments of Fellows and Research Associates***

The interviews for the selection of Fellows, Research Associates and Managers in different sections were held during January 24 - 25, 2013 under the chairmanship of Prof Anil K Gupta. In total thirty one candidates were interviewed and eighteen recommended for selection.

### ***Result Framework Document of NIF***

NIF was invited by Performance Management Division, Cabinet Secretariat for a meeting with the Adhoc Task Force (ATF) to discuss the Result Framework Document (RFD) on February 1, 2013. Prof. Anil K Gupta gave a presentation on the activities and progress of NIF to the ATF members. ATF complimented Prof. Gupta on his presentation and appreciated the pioneering work done by NIF. The ATF also suggested that DST increase the awareness of other departments/ministries about NIF's activities and build stronger links with NIF.

NIF submitted the Annual Report of RTI for the year 2012-13 and the RFD for the

year 2013-14 to the Department of Science and Technology.

### **Summing Up**

The year has been quite an eventful one with all the sections of the organization forging new partnerships, consolidating old efforts, and taking new initiatives to further improve the service and delivery of outputs and enhance the outcomes and impact. Efforts for value addition and validation, and protection of intellectual property have been scaled up considerably. Social and commercial diffusion of grassroots technologies has taken off much more than earlier. With active support from the Department of Science and Technology, the Honey Bee Network, and other stakeholders, NIF hopes to keep moving ahead in its efforts to serve the grassroots innovators and share the benefit of their work with the society at large.

### **Volunteers invited**

It is apparent from the activities under report that despite becoming an integral part of Department of Science and Technology, NIF continues to draw upon volunteers in all fields and functions to achieve its goals. NIF is always looking for volunteers who wish to participate in any aspect of value chain around grassroots innovation and outstanding traditional knowledge. Interested colleagues can write to NIF at [info@nifindia.org](mailto:info@nifindia.org) and offer to join this mammoth effort of making India Innovative by contributing in scouting and documentation, mobilizing ideas and innovations from children in and out of school, informal sector, rural areas or urban informal sector, value addition, validation, business development, dissemination; developing media strategy; designing products; filing patents or trademarks; writing stories; making films, or just walking with Honey Bee Network volunteers during shodh yatras every summer and winter.

# **Auditor's Report and Balance Sheet 2012-13**

## **NATIONAL INNOVATION FOUNDATION - INDIA**

A Trust registered under the Bombay Public Trust Act, 1950, Regn. No. - F/7412/Ahmedabad

A society registered under the Societies Registration Act, 1860, Regn. No. - GUJ/7567/Ahmedabad

### **Report on the Financial Statements**

We have audited the accompanying financial statements of **NATIONAL INNOVATION FOUNDATION-INDIA** (“the Trust” or “the society”), which comprise the Balance Sheet as at 31<sup>st</sup> March , 2013, the Statement of Income and expenditure Account for the year then ended, and a summary of the significant accounting policies and other explanatory notes.

### **Management’s Responsibility for the Financial Statements**

Management is responsible for the preparation of these financial statements in accordance with the Bombay Public Trust Act, 1950, the Societies Registration Act, 1860 and guidelines prescribed for preparation and presentation of financial statement for Central Autonomous Body

issued by Ministry of Finance, Government of India. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that are free from material misstatement, whether due to fraud or error.

### **Auditors’ Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors’ judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Organisations preparation and fair

presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### **Opinion**

In our opinion and to the best of our information and according to the explanations given to us, the financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India:

- (a) in the case of the Balance Sheet, of the state of affairs of the Trust as at 31<sup>st</sup> March, 2013;
- (b) in the case of the Statement of Income & Expenditure Account , of the Excess of Income over Expenditure for the year ended on 31<sup>st</sup> March, 2013.



### **Report on Other Legal and Regulatory Requirements**

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

- (a) The accounts are maintained regularly and in accordance with the provisions of the Act and the Rules.
- (b) The Income and Expenses are properly and correctly shown in the accounts.
- (c) The cash balance and vouchers in the custody of the authorised person on the date of audit were in agreement with the accounts.
- (d) Books, Deed, Accounts vouchers and other documents and records required by us were produced before us.
- (e) A register of movable properties of the trust duly certified by the trustee has been properly maintained.
- (f) There are no defects and inaccuracies mentioned in the previous audit report which need to be complied with.
- (g) The manager / trustee appeared before us and furnished necessary information required by us.
- (h) No properties of funds were applied for any object or purpose other than object or purpose of trust.

- (i) The amount outstanding for more than 1 year Rs. 52,31,823/- [includes Rs.52,09,823/- on account of financial assistance under MVIF [Micro Venture Innovation Fund] sponsored by SIDBI [Small Industries Development Bank of India] and amount written off were Rs. NIL.
- (j) Tenders were invited wherever the repairs or construction involving expenditure exceeding Rs.5000/- was taken up.
- (k) We have not come across any case of alienations of immovable property contrary to the provision of section 36 of the act.

Pursuant to section 12-E (2) of the Societies Registration Act, 1860, we further report that we have not come across any case of irregular, illegal or improper expenditure, or failure or omission to recover monies or other property belonging to the society or of loss or waste of money or other property thereof on the part of the governing body or any person.

**For MUKESH M. SHAH & CO.  
Chartered Accountants  
Firm Registration No.: 106625W**

**Chandresh S. Shah  
Partner  
Membership No.: 042132**

Place: Ahmedabad  
Date: 18 July 2013

<b>NATIONAL INNOVATION FOUNDATION - INDIA</b>				
<b>Regn.No.F/7412/Ahmedabad</b>				
<b>BALANCE SHEET AS AT MARCH 31, 2013</b>				
	Schedule No.	INR-Rupees As at March 31, 2013		INR Rupees As at March 31,2012
<b>CORPUS/ CAPITAL FUND &amp; LIABILITIES</b>				
Corpus/Capital Fund	1		26,329,127	23,318,551
Earmarked Funds	2		87,258,444	76,399,067
Current Liabilities and Provisions	3		13,649,205	1,933,652
<b>Total</b>			<b>127,236,776</b>	<b>101,651,270</b>
<b>ASSETS</b>				
<b>Fixed Assets</b>				
Gross Block	4	27,476,849		24,562,371
Less : Depreciation		16,350,133		13,162,340
Net Block			11,126,716	11,400,031
Investments			-	-
Current Assets, Loans, Advances and Other Assets	5		116,110,060	90,251,239
<b>Total</b>			<b>127,236,776</b>	<b>101,651,270</b>
<b>Significant Accounting Policies and Notes on Accounts</b>	11			
As per our report of even date For <b>Mukesh M Shah &amp; Co.</b> Chartered Accountants Firm Regn. No. 106625W		The above Balance Sheet to the best of my/our belief contains a true account of the Funds/Liabilities and Assets/Property of the Trust		
Partner Chandresh Shah Membership No. 042132 Place : Ahmedabad Date : 18 July 2013		<b>TRUSTEE</b>		

**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON MARCH 31, 2013**

	Schedule No.	INR-Rupees For the year ended on March 31, 2013	INR-Rupees For the year ended on March 31, 2012
<b>INCOME</b>			
<u>Grant/ subsidies</u>			
Plan Grant from Department of Science and Technology [DST] (Less: Amount Transferred to Balance sheet representing expenditure on non-recurring items)		101,200,000 (2,930,678)	90,000,000 (6,642,889)
Interest earned	6	98,269,322 -	83,357,111 29,362
Other Income	7	-	-
<b>Total</b>		<b>98,269,322</b>	<b>83,386,473</b>
<b>EXPENDITURE</b>			
Establishment Expenses	8	13,015,693	11,525,826
Recurring Expenses	9	75,375,850	63,992,086
Other Administrative Expenses	10	6,599,998	7,847,392
Depreciation		3,197,883	2,858,209
<b>Total</b>		<b>98,189,424</b>	<b>86,223,513</b>
<b>Excess of Income over Expenditure transferred to Balance Sheet</b>		<b>79,898</b>	<b>(2,837,040)</b>
<b>Significant Accounting Policies and Notes on Accounts</b>	11		
As per our report of even date For <b>Mukesh M Shah &amp; Co.</b> Chartered Accountants Firm Regn. No. 106625W		The above Balance Sheet to the best of my/our belief contains a true account of the Funds/Liabilities and Assets/Property of the Trust	
Partner Chandresh Shah Membership No. 042132 Place : Ahmedabad Date : 18 July 2013		<b>TRUSTEE</b>	

<b>NATIONAL INNOVATION FOUNDATION - INDIA</b> <b>Regn.No.F/7412/Ahmedabad</b>			
<b>SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2013</b>			
		INR-Rupees As at March 31, 2013	INR-Rupees As at March 31,2012
<b>Schedule : 1 - Corpus/Capital Fund :</b>			
<b>1 Corpus Fund</b>			
Balance as per last Balance Sheet	-		-
Add: During the year	-		-
		-	-
<b>2 Capital Fund</b>			
Balance as per last Balance Sheet		433,294	433,294
<b>3 GOI DST Grant for Fixed assets</b>			
Balance as per last Balance Sheet	12,114,676		5,471,787
Add: (Grant received on account of Non-recurring items)	2,930,678		6,642,889
		15,045,354	12,114,676
<b>4 Balance in Income and Expenditure Account</b>			
Balance as per last Balance Sheet	10,770,581		13,607,621
Add /(Less): Excess /(Deficit) of Income transferred from Income and Expenditure Account	79,898		(2,837,040)
		10,850,479	10,770,581
<b>Total</b>		<b>26,329,127</b>	<b>23,318,551</b>

**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2013**

	INR-Rupees As at March 31, 2013	INR-Rupees As at March 31,2012
<b>Schedule : 2 - Earmarked Funds :</b>		
<b>Earmarked Funds</b>		
<b>1 CAPART Exhibition</b>		
a Balance as per last Balance Sheet	(105,697)	-
b Grant received	-	940,500
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	-	-
ii. Revenue Expenditure		
Accomodation, Conference hall, stationery and printing and exhibition expenses	36,374	767,512
Administrative/ Institutional charges	-	95,000
Salaries & Wages	-	122,000
Travel expenses	-	61,685
Total of Expenditure	36,374	1,046,197
Recoverable from CAPART- [a+b-c]		(105,697)
		(142,071)
<b>2 DST &amp; KAPL Project</b>		
a Balance as per last Balance Sheet	(598,208)	6,568,163
b Grant received	-	589,000
c Interest on Grant	-	-
d <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	(521,351)	7,119,702
ii. Revenue Expenditure		
Consumable & Materials	-	418,500
Information & Documentation	-	-
Overhead	-	-
Salaries & Wages	-	150,000
Travel expenses	-	67,169
Total of Expenditure	(521,351)	7,755,371
Net Balance at the year end [a+b+c-d]		(598,208)
		(76,857)
<b>3 DST Seeds Project</b>		
a Balance as per last Balance Sheet	201,439	473,284
b Grant received	-	400,000
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	-	147,529
ii. Revenue Expenditure		
Consumable & Materials	11,460	88,878
Salaries & Wages	237,226	316,903
Overhead	-	100,000
Travel expenses	41,953	18,535
Total of Expenditure	290,639	671,845
Net Balance at the year end [a+b-c]		201,439
		(89,200)
Continue to next page...		

NATIONAL INNOVATION FOUNDATION - INDIA Regn.No.F/7412/Ahmedabad			
SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2013			
	INR-Rupees As at March 31, 2013		INR-Rupees As at March 31,2012
Continue from previous page...			
<b>4 DST Project- Vet</b>			
a Balance as per last Balance Sheet	325,149		500,000
b Grant received	-		400,000
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>			
i. Capital Expenditure	-		-
ii. Revenue Expenditure			
Consumable & Materials	-		238,241
Contingencies	-		16,682
Salaries & Wages	422,968		155,533
Overhead	-		80,000
Travel expenses	11,449		84,395
Total of Expenditure	434,417		574,851
Net Balance at the year end [a+b-c]		(109,268)	325,149
<b>5 NMPB(Ayush) Project</b>			
a Balance as per last Balance Sheet	1,027,102		3,501,391
b Grant received	-		-
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>			
i. Capital Expenditure			
Fixed assets	-		-
Others			
ii. Revenue Expenditure			
Consumables	297,400		
Contingency	22,025		42,972
Manpower	2,237,398		1,522,091
Overhead	-		400,000
Travel	247,211		477,863
Workshop	-		31,363
Total of Expenditure	2,804,034		2,474,289
Net Balance at the year end [a+b-c]		(1,776,932)	1,027,102
<b>6 DST Project- Techpedia</b>			
a Balance as per last Balance Sheet	-		-
b Grant received	-		3,400,000
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>			
i. Capital Expenditure			
Fixed assets	-		-
Others	-		-
ii. Revenue Expenditure			
Communication & Contingency	-		300,000
Manpower	-		1,020,000
Portal Management	-		1,400,000
Travel	-		500,000
Workshop	-		180,000
Total of Expenditure	-		3,400,000
Net Balance at the year end [a+b-c]		-	-
Continue to next page...			

**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2013**

	INR-Rupees	
	As at March 31, 2013	As at March 31, 2012
Continue from previous page...		
<b>7 ICMR- Herbarium and Plant Repository Project</b>		
a Balance as per last Balance Sheet	5,200,000	-
b Grant received	300,000	5,480,000
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	18,900	-
Others	-	-
ii. Revenue Expenditure		
Consultancy Charges	300,000	
Contingencies	93,707	
Overhead	-	280,000
Total of Expenditure	412,607	280,000
Net Balance at the year end [a+b-c]		5,200,000
		5,087,393
<b>8 ICMR- Sristi Laboratory Project</b>		
a Balance as per last Balance Sheet	-	-
b Grant received	4,652,545	-
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	-	-
Others	-	-
ii. Revenue Expenditure		
Overhead	-	-
Total of Expenditure	-	-
Net Balance at the year end [a+b-c]		-
		4,652,545
<b>8 Rajat Jayanti Vigyan Sancharak Fellowship</b>		
a Balance as per last Balance Sheet	51,789	-
b Grant received	212,000	175,000
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Revenue Expenditure	108,722	123,211
Total of Expenditure	108,722	123,211
Net Balance at the year end [a+b-c]	155,067	51,789
Less: Return the Balance of fund to DST	155,067	-
<b>9 Micro Venture Innovation Fund- A/c SIDBI</b>		
a Balance as per last Balance Sheet	67,630,016	65,735,642
b Income during the year from advances and investments made on account of funds	5,638,104	1,894,374
Net Balance at the year end [a+b]		67,630,016
		73,268,120
<b>10 Innovation Fund</b>		
Balance as per last Balance Sheet	2,667,477	14,000
Add: Amount transferred during the year[Refer Note:1(g) Schedule -11]	3,782,487	2,653,477
Less: Amount incurred during the year	5,250	-
		2,667,477
		6,444,714
<b>Total</b>		<b>87,258,444</b>
		<b>76,399,067</b>

<b>NATIONAL INNOVATION FOUNDATION - INDIA</b> <b>Regn.No.F/7412/Ahmedabad</b>		
<b>SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2013</b>		
	INR-Rupees As at March 31, 2013	INR-Rupees As at March 31,2012
<b>Schedule : 3 - Current Liabilities and Provisions :</b>		
<b>Sundry Creditors</b>		
Others		731,703
Bank Book Overdraft		1,713,946
Union Bank of India, Premchandnagar - SB A/c. No.724		-
<b>Other Liabilities</b>		
Employee's NPS Deduction	42,422	106,503
NPS Payable Account	42,422	106,503
		84,844
<b>Total</b>		<b>13,649,205</b>
		<b>1,933,652</b>



**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2013**

**F.Y.2012-13**  
**Schedule - 4**

Particulars	GROSS BLOCK				DEPRECIATION				Net Block As on 3/31/2013
	Balance as on 4/1/2012	Additions during the year	Deductions during the year	Gross Block as on 3/31/2013	Depreciation up to 3/31/2012	Deductions during the year	Depreciation for the year	Depreciation up to 3/31/2013	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<b>Computers &amp; Ancillary Assets</b>									
Computers	8,035,839	552,463	-	8,588,302	6,807,791	-	919,414	7,727,205	861,097
Networking equipment	547,703	-	-	547,703	481,202	-	39,901	521,103	26,600
Scanner	372,840	40,900	-	413,740	74,937	-	47,753	122,690	291,050
Software	2,263,067	759,189	-	3,022,256	2,004,239	-	544,345	2,548,584	473,672
<b>Furniture &amp; Fixtures and Dead Stock</b>									
Furniture & Fixtures	1,525,918	518,514	-	2,044,432	682,941	-	115,841	798,782	1,245,650
Electrical Installations	69,610	-	-	69,610	30,215	-	3,940	34,155	35,455
<b>Office Equipments</b>									
Air Cooler	220,130	40,674	(16,200)	244,604	85,851	(10,090)	26,243	102,004	142,600
Balloon	35,438	-	-	35,438	18,327	-	2,567	20,894	14,544
Camera	1,431,381	-	-	1,431,381	510,056	-	138,199	648,255	783,126
EPABX System	127,788	-	-	127,788	66,194	-	9,239	75,433	52,355
Equipment	1,392,585	868,152	-	2,260,737	291,522	-	361,734	653,256	1,607,481
Fab Lab Equipment	1,614,676	-	-	1,614,676	535,567	-	161,866	697,433	917,243
Fax Machine	36,907	-	-	36,907	25,059	-	1,777	26,836	10,071
Fire Extinguisher	13,405	-	-	13,405	10,296	-	466	10,762	2,643
Photo Copying Machine	505,202	-	-	505,202	386,733	-	17,770	404,503	100,699
Public Address System	60,111	-	-	60,111	31,085	-	4,354	35,439	24,672
Refrigerator	39,010	-	-	39,010	16,323	-	3,403	19,726	19,284
Sony LCD	91,000	-	-	91,000	47,060	-	6,591	53,651	37,349
Tape recorder	41,727	-	-	41,727	25,654	-	2,411	28,065	13,662
Telephone/mobile Instrument	444,358	150,786	-	595,144	179,582	-	63,774	243,356	351,788
<b>Vehicles</b>									
Activa Honda	44168	-	-	44,168	26041	-	2719	28,760	15,408
Bajaj Pulser	68289	-	-	68,289	40261	-	4204	44,465	23,824
Honda city	1,037,399	-	-	1,037,399	221,744	-	122348	344,092	693,307
Tata safari	1,311,519	-	-	1,311,519	280,337	-	154677	435,014	876,505
Tata Indica	545,341	-	-	545,341	81,801	-	69531	151,332	394,009
Mobile Exhibition Van	2,686,960	-	-	2,686,960	201,522	-	372816	574,338	2,112,622
<b>Total A</b>	<b>24,562,371</b>	<b>2,930,678</b>	<b>(16,200)</b>	<b>27,476,849</b>	<b>13,162,340</b>	<b>(10,090)</b>	<b>3,197,883</b>	<b>16,350,133</b>	<b>11,126,716</b>

**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2013**

	INR-Rupees As at March 31, 2013	INR-Rupees As at March 31,2012
<b>Schedule : 5 - Current Assets, Loans, Advances and Other Assets :</b>		
<b>1 Cash and Bank Balances</b>		
Cash Balance on hand	-	-
Balance with Banks		
In Saving Accounts		
- Kotak Mahindra, Vastrapur - SB A/c. No.762	1,890,925	11,679,301
- Union Bank of India, Premchandnagar - SB A/c. No.724	-	7,965,534
	1,890,925	19,644,835
In Current Accounts		
- Axis Bank, Vastrapur - A/c. No.1548	883,660	1,615,098
- Axis Bank, Vastrapur - A/c. No. 8099 - MVIF	3,616,361	4,009,402
- SBI, IIM - A/c. No.30379920229	289,821	290,371
	4,789,842	5,914,871
In Fixed Deposit Accounts		
- From NIF funds	38,451,225	-
- From MVIF funds	55,798,862	48,455,650
	94,250,087	48,455,650
<b>Total</b>	<b>100,930,854</b>	<b>74,015,356</b>
<b>2 Loans, Advances and Other Assets</b>		
Advance recoverable in cash or in kind or for value to be received	1,046,283	1,152,697
Advances to Innovators from MVIF Funds [SIDBI]	13,197,972	14,405,487
Advance payment of Income Tax	934,951	598,128
Bank receivable	-	79,571
<b>Total</b>	<b>15,179,206</b>	<b>16,235,883</b>
<b>Total</b>	<b>116,110,060</b>	<b>90,251,239</b>

**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**  
**FOR THE YEAR ENDED ON MARCH 31, 2013**

	INR-Rupees For the year ended on March 31, 2013	INR-Rupees For the year ended on March 31, 2012
<b>Schedule : 6 - Interest earned :</b>		
Interest earned on 8% Govt. of India saving bond	-	-
Interest on fixed deposits with banks	3,504,611	1,674,626
Interest on Saving Bank account	276,746	116,851
Interest earned on others	-	29,362
<b>Total Interest Earned</b>	<b>3,781,357</b>	<b>1,820,839</b>
Less: Transfer to Innovation Fund	(3,781,357)	(1,791,477)
<b>Total</b>	<b>-</b>	<b>29,362</b>
<b>Schedule : 7 - Other Income :</b>		
Administrative overhead recovery from Earmarked Projects	-	860,000
Miscellaneous Income	-	-
	-	860,000
Less: Transfer to Innovation Fund	-	(860,000)
<b>Total</b>	<b>-</b>	<b>-</b>

NATIONAL INNOVATION FOUNDATION - INDIA Regn.No.F/7412/Ahmedabad		
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON MARCH 31, 2013		
	INR-Rupees For the year ended on March 31, 2013	INR-Rupees For the year ended on March 31, 2012
<b>Schedule : 8 - Establishment Expenses :</b>		
Basic Pay	2,745,021	649,405
Consultancy Charges	1,257,758	1,285,360
Contractual Payment	2,899,081	2,510,453
Dearness Allowance	1,937,345	415,605
Employer's NPS Contribution	468,251	106,503
Fellowship	2,738,963	4,731,595
Fellowship (NIF Cell- NE)	-	462,903
House Rent Allowance	549,004	129,881
Salary and Wages	-	1,143,355
Transport Allowance	420,270	90,766
<b>Total</b>	<b>13,015,693</b>	<b>11,525,826</b>
<b>Schedule : 9 - Recurring Expenses :</b>		
<b>1 Business Development</b>		
Advertisement for Licensing	160,003	55,405
Benchmarking and Market Research	274,525	1,443,700
Data Management /MIS (BD)	-	14,513
Demonstrations (BD)	945,774	1,436,726
Incubation Committee / Mentor Meetings	-	23,113
Online Catalogues	54,699	150,697
Packaging, Labeling and Branding	-	38,675
Student Involvement for Business Plans	520,005	591,374
Travel (BD)	1,236,686	378,731
	<b>3,191,692</b>	<b>4,132,934</b>
<b>2 Dissemination &amp; Social Diffusion</b>		
Data Management /MIS (Dnsd)	-	14,513
Demonstrations (Dnsd)	660,578	488,952
Diffusion of Practices Through Farmers /media /KVK	3,061,848	717,889
Exhibitions & Innovation exhibition	3,013,039	1,759,357
Innovation Diffusion Centre	976,359	994,210
Printing & Publication (Dasd)	2,622,898	-
Travel (Dissemination)	666,242	49,679
	<b>11,000,964</b>	<b>4,024,600</b>
<b>3 IPR and Law</b>		
Data Management/ MIS (IPR & Law)	-	23,221
Experts / Mentors Committee Meeting (IPR)	1,716	740
Filing National Patent Applications	2,337,869	2,853,778
Filing Trade Mark and Geographical Applications	-	59,869
PCT Applications	1,072,985	707,718
Travel (IPR)	62,618	7,982
	<b>3,475,188</b>	<b>3,653,308</b>
Continue to next page...		

**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**  
**FOR THE YEAR ENDED ON MARCH 31, 2013**

	INR-Rupees For the year ended on March 31, 2013	INR-Rupees For the year ended on March 31, 2012
Continue from previous page...		
<b>4 IT &amp; Database</b>		
Computer Maintenance & Upgradation	111,708	160,663
Database & Software Dev , Proof Reading	1,222,621	1,085,493
Internet	356,925	380,915
Online Applications(Incubation ,MIS, Travk Status)	90,220	46,957
Travel (IT)	9,465	-
Website	86,843	130,944
	<b>1,877,782</b>	<b>1,804,972</b>
<b>5 Scouting &amp; Documentation</b>		
Advertisement- Regional and National	4,536,652	2,055,211
Collaborators	3,500,583	2,402,350
Data Management / MIS (S&D)	-	29,027
Experts / Mentors Meetings (S&D)	60,130	124,026
Ignite (S&D)	1,230,050	672,518
Sample / Prototype Collection & Identification	697,060	863,338
Travel (S&D)	1,895,672	721,418
Verification / Detailed Documentation	2,204,319	2,056,192
Workshops and Publications	2,296,349	1,529,972
	<b>16,420,815</b>	<b>10,454,052</b>
<b>6 Value Addition and Research &amp; Development</b>		
Administrative Exps- VARD	-	17,635
Data Management /MIS (Vard)	-	29,026
Experts /mentors Meetings (Vard)	1,616,809	798,330
Prior Art Search, Validation of Innovations	9,144,130	9,471,983
Testing of Prototypes / Products	4,123,070	3,859,436
Travel (VARD)	2,408,062	1,132,816
Value Addition and Product Development	7,884,522	11,073,739
	<b>25,176,593</b>	<b>26,382,965</b>
<b>7 Technology acquired under Technology Acquisition Fund</b>	<b>875,894</b>	<b>2,991,380</b>
<b>8 Award Function Expenses</b>		
Accomodation	884,153	699,400
Catering	495,979	413,100
Dissemination	108,763	136,584
Exhibition and Other Exps	2,481,684	2,426,600
Photography	19,300	-
Prizes	7,845,000	5,195,000
Stationery and Printing	21,070	256,664
Travel and Transportation	1,193,405	1,155,207
Trophy	303,458	265,320
	<b>13,352,812</b>	<b>10,547,875</b>
<b>9 Loss on Sale of Fixed Assets</b>	<b>4,110</b>	<b>-</b>
<b>Total</b>	<b>75,375,850</b>	<b>63,992,086</b>

*In Support of Grassroots Innovations*

**NATIONAL INNOVATION FOUNDATION - INDIA**  
**Regn.No.F/7412/Ahmedabad**

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**  
**FOR THE YEAR ENDED ON MARCH 31, 2013**

	INR-Rupees For the year ended on March 31, 2013		INR-Rupees For the year ended on March 31, 2012
<b>Schedule : 10 - Other Administrative Expenses :</b>			
Auditors Remuneration			
Audit Fees	85,956		
Other certification fees	2,248	88,204	71,210
Bank Charges		5,268	18,906
Conveyance Expenses		25,106	30,066
Electricity and Power		260,838	212,833
G.C. Meeting Expenses		230,489	122,530
Insurance Expenses		117,118	54,214
Office Expenses		354,371	303,378
Postage Expenses		323,697	402,215
Printing and Stationary		652,261	956,846
Recruitment Expenses		1,146,074	2,604,070
Rent, Rates and Taxes		2,634,376	2,472,844
Repairs and Maintenance		152,457	148,206
Security Expenses		269,525	218,514
Telephone and Communication Charges		59,737	83,665
Travel Expenses		123,209	-
Vehicles Running and Maintenance		157,268	147,895
<b>Total</b>		<b>6,599,998</b>	<b>7,847,392</b>

<b>ADVANCES A/c. MVIF PROJECTS</b>		
	<b>Rs.</b>	<b>Rs.</b>
<b>North East Region</b>		
Areca Nut Peeling Machine	7500	
Bamboo Strip/Stick Making Machine	5028	
Amount lying with coordinating agency	5622	
Muga Reeling Machine	20000	
Pomegranate Deseeding	12000	50150
<b>North Region</b>		
Fire Cracker Device	7000	
Amount lying with coordinating agency	15480	
Gurmal Singh Dhoshi- Compost Aerator Machine	18125	
Herbal Growth	162407	
HNP-Performance Enhancer for Petrol Engine- Harinar	149417	
Modified Solar Cooker	5047	
Multi Crop Thresher	884931	
Multi Seed Drill	385268	
Safety Valve for Stove	16000	
Trench Digger Machine	1093480	2737155
<b>Western Region</b>		
Bicycle Hoe	15000	
Healthcare Chair	37390	
Mitticool Clay	1991	
Mohan Lamb- Kranti Spray Pump	105500	
Natural Water Cooler- Arvindbhai Patel	90000	
Paresh Panchal- Incense Stick Macking Machine	300000	
Stencil Cutting Device- Nazim Shaikh	171100	
Sugarcane Rotator	47486	
Amount lying with coordinating agency	-57181	711286
<b>BALANCE C/F</b>		<b>3498591</b>

<b>ADVANCES A/c. MVIF PROJECTS</b>		
	<b>Rs.</b>	<b>Rs.</b>
<b>Schedule - 1</b>		
<b>BALANCE B/F</b>		<b>3498591</b>
<b>Southern Region</b>		
SEVA (Multipurpose Cooking Vessel-Abdul Razak)	42150	42150
<b>Projects under direct supervision of NIF</b>		
Bamboo Agarbati Stick Making Machine	300000	
B.Mohanlal- Marine Reversible Reduction Gearbox	1480000	
Bommagani Mallesh- Remote for electronic gadgets	150000	
Clear Banana Alkali- Basanta Sharma	96050	
C.V.Raju- Anything by HAnd	599040	
Dadaji Khobragade- DRK 2008 Paddy Variety	300000	
Deepak Bharali- Innovative Design Making Machine	1065000	
Director, SMIT- Ajooba Tube Light Frames	182032	
D N Venkat- Multi Tree Climbing Instrument	370000	
Dr. K L Rao- Honeybee A P	9000	
G Chandrashekhar- Passiflora Foetida	360000	
Huma Toilet Cleaner- Md. Motin Ahmed	24000	
Imli Toshi Namu- Multi Use Hand Free Visor	13500	
Iron Mesh Making Machine- N. Indrakumar Singh	90000	
Jai Prakash Singh- Wheat Varieties	100000	
Jaydeep Mandal	565000	
Jayprakash- Energy Efficient Stove	300000	
Mallesham- Laxmi Asu Machine	367534	
Md.Fajlul Haque- Paddy Thresher	804075	
Mujib Khan- Retrofitted Kit in Car for Physically Challenged	260000	
Prem Singh Saini- Phone Operated Switch	200000	
Rajkumar Rathore- Richa 2000	300000	
Rama Shankar Sharma- Modified Hand Pump	37000	
Shailendra Rakhecha- Animated T- Shirt	375000	
Sugarcane Bud Chipper Device-Roshanlal Vishwakarma	500000	
Tulsi Growth Promoter	80000	
Umesh Chandra Sharma- Interlocking Bricks	350000	
Yellow Fourier Technologies P.Ltd.-Indian Tea Makin	210000	
Augustine Thomas- Electro Tyre Rethreading machine	100000	
GIAN- Cell (J&K)	70000	9657231
<b>TOTAL</b>		<b>13197972</b>



<b>Schedule IXC</b> <b>(Vide Rule 32)</b>		
<i>Statement of Income liable to contribution for the Financial Year 01-04-2012 to 31-03-2013</i>		
Name of the Public Trust:	<b>NATIONAL INNOVATION FOUNDATION - INDIA</b> Bungalow No. 1, Satellite Centre, Satellite Complex, Premchandnagar Road, Jodhpur Tekra, Satellite, Ahmedabad - 380015.	
Regn.No.	F/7412/Ahmedabad	
	INR-Rupees	
<b>Gross Annual Income</b>		
Plan Grant from Department of Science and Technology [DST]	101,200,000	
Interest Income earned	3,781,357	
<b>Total Gross Annual Income</b>		104,981,357
<b>Details of Income not Chargeable to Contribution under Section 58 and Rule 32 :</b>		
(i) Donation received during the year from other public trusts and Dharmadas		
(ii) Grants by Government and Local Authorities	101,200,000	
(iii) Interest on Sinking or Depreciation Fund		
(iv) Amount spent for the purpose of secular education	98,189,424	
(v) Amount spent for the purpose of medical relief		
(vi) Amount spent for the purpose of veterinary treatment of animals.		
(vii) Expenditure incurred from donations for relief of distress caused by scarcity, drought, flood, fire or other natural calamity.		
(viii) 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		
(ix) 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 10 per cent of gross rents of buildings		
(e) Cost of collection at 4 percent of gross rent of buildings let out		
(x) Cost of collection of income or receipts from securities stocks etc.at 1 percent of such income		
(xi) Deduction on account of repairs in respect of buildings not rented and yielding no income at 10 per cent of the estimated gross annual rent		
<b>Total Income not chargeable to contribution.</b>		104,981,357
<b>Gross Annual Income Chargeable to Contribution</b>		<b>0</b>
For National Innovation Foundation	As per our report of even date For <b>Mukesh M Shah &amp; Co.</b> Chartered Accountants Firm Regn. No. 106625W	
Trustee		
Place : Ahmedabad	Partner	
Date : 18 July 2013	Chandresh Shah	
	Membership No. 042132	

**NATIONAL INNOVATION  
FOUNDATION INDIA**

**SCHEDULE: 11 - 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 the accrual 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 and in accordance with the guidelines on accounting for the central autonomous bodies, issued by Ministry of Finance. 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 expenditure are recognized on accrual basis except in case of specific and conditional Grants. 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. Government grants/subsidies are accounted on realisation basis.

**c) Fixed assets and intangible assets**

i. 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. Fixed assets acquired from earmarked funds are shown as utilisation of funds in Schedule-2 in respective earmarked funds.

ii. Any loss or gain on exchange rate fluctuation attributable to fixed assets is adjusted to the cost of fixed assets.

**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) Plan/Non-Plan grant received from the Government**

Plan Grants received during the tear are credited to revenue account except

grants utilised for acquisition of capital assets during the year is credited to respective "Capital Fund" account.

**f) Earmarked Funds**

Funds/grant received for specific projects are credited to separate account and utilisation of the same also debited to respective funds/grant accounts. Outstanding amount in those funds/grants shows amounts still to be incurred on running projects.

**g) Innovation Funds**

Interest earned during the year has been credited to Innovation Funds.

**h) Fellowships and scholarships**

Sponsored fellowships and scholarships are accounted against the sponsored project fund/grant. Fellowships and scholarships paid out of the organisation funds are treated as revenue expenditure and debited to "Establishment Expenses".

**i) Expenditure on Technology acquisitions**

Payments made for acquiring rights in innovated products from the innovators for making it available to public at large at low cost or no cost are charged to

revenue account in the year of payment as recurring expenditure as "Technology acquired under Technology Acquisition Fund".

**j) Investments**

The investments are stated at cost.

**k) 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.

**l) Taxation**

Income tax provision is made as per applicable provisions of Income Tax Act, 1961.

**m) Foreign Currency Transactions**

Transactions denominated in foreign currency are accounted at the exchange rate prevailing at the date of the transaction.

**2. Notes on Accounts :**

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.

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.

**c) Taxation**

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

d) Estimated amount of Capital contracts to be executed       Rs. Nil

e) Foreign Currency transactions :

Value of Import on CIF basis   Rs. Nil  
Expenditure in Foreign Currency

Rs. Nil

Earnings in Foreign Currency   Rs. Nil

**Schedule - 1 to 11 are annexed to and from an integral part of the Balance Sheet as at March 31, 2013 and the Income and Expenditure Account for the year ended on that date.**

As per our report of even date attached  
**For Mukesh M. Shah & Co.**  
Chartered Accountants  
Firm Regn. No. 106625W

Chandresh Shah

Partner

Membership No. 042132

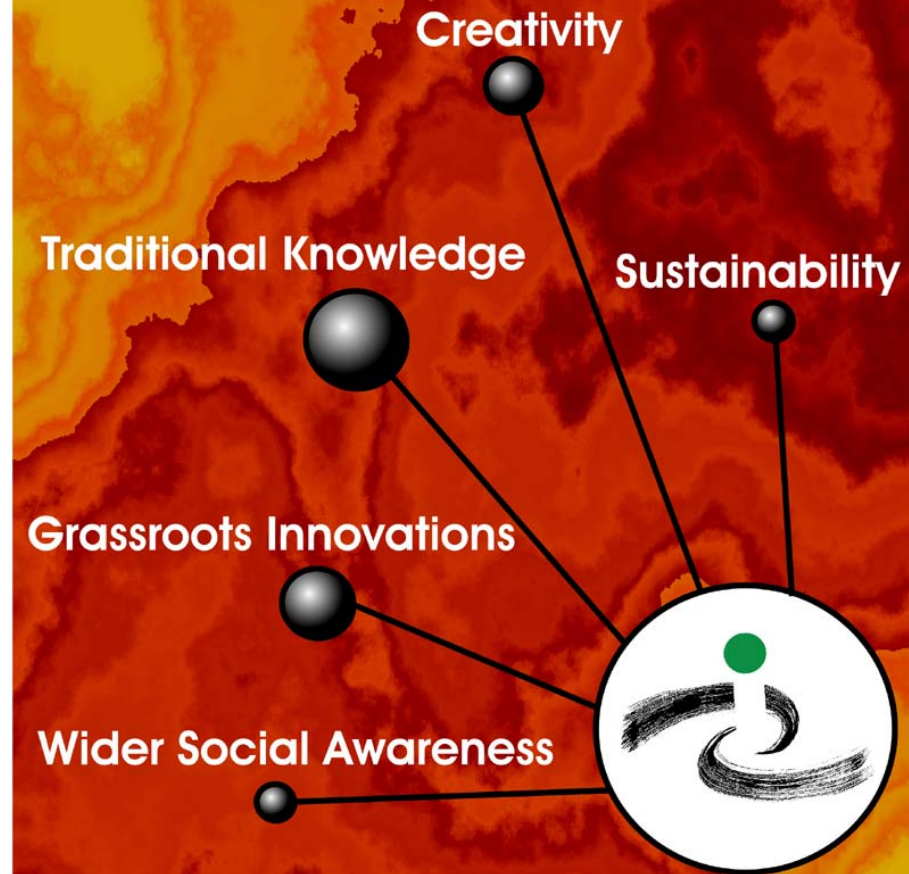
Trustee

Place: Ahmedabad

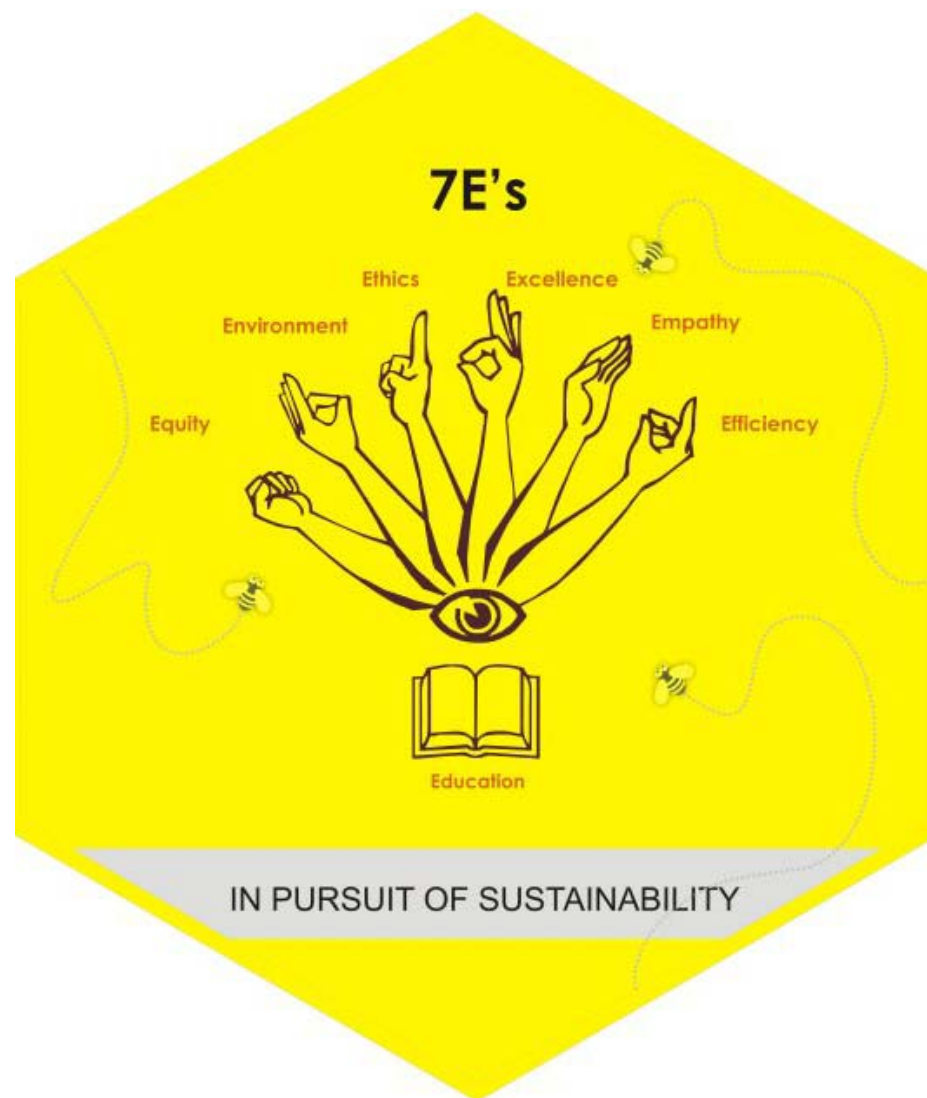
Dated: 18 July 2013



# In Quest of



National Innovation Foundation



**National Innovation Foundation - India**

Satellite Complex, Prem Chand Nagar Road

Ahmedabad 380 015 Gujarat

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