

Annual Report 2013-2014



National Innovation Foundation - India





National Innovation Foundation - India
An Autonomous Body of Department of Science & Technology, Govt. of India



Preface



R. A. Mashelkar, F.R.S.

Chairperson, NIF
National Research Professor, Chancellor, AcSIR &
President, Global Research Alliance

Every New Year for NIF is a year of new milestones, new challenges and invention of new standards to measure it against. When organisations, which have no real peer in the world have to develop new standards of performance and accountability, they cannot resort to benchmarking. They have to invent new metrics to measure their performance. NIF has chosen to bridge the increasing chasm between rising aspirations of creative people and very limited resources available to it to meet them as a point of departure. It has continued to rely on volunteers of Honey Bee Network (HBN). Their dedication has helped NIF to mobilise enormous social resources often at no or very low cost. This is the secret of extremely low unit cost of doing various activities in NIF. But this also means that all the staff and collaborators of NIF have to stretch themselves a great deal.

Many times, organizations lose their moorings and confuse between means and ends. They forget the contribution of the decades of struggles of common people and multitudes of volunteers. Team NIF will have to maintain its humility, collegiality and simplicity so as to continue to deserve all the support from so many scientists, technologists, designers, entrepreneurs, and nameless and often faceless scouts of HBN.

The support by NIF to *Innovation Scholar in Residence program* at the Rashtrapati Bhavan has been ongoing. Grassroots innovators and a school student winner of IGNITE award earlier will be hosted by the Rashtrapati Bhavan. The exhibition of Innovation at the Rashtrapati Bhavan campus attracted numerous policy makers and common people. The IGNITE

contest attracted more than 21,000 entries from school children all over the country. Dr A P J Abdul Kalam honoured the IGNITE winners like in the previous year and charged them with new hopes and also new commitments to spread the spirit of HBN around.

I hope the readers will appreciate the new partnerships and new initiatives initiated by NIF during the year. The real value of various innovations and outstanding traditional knowledge can only be harnessed once they reach common people. NIF team will have to try new schemes, devise new mechanisms and develop new special purpose vehicles for diffusion of grassroots innovations. My best wishes to the NIF team to take the various initiatives further.

A handwritten signature in black ink, appearing to read 'R. A. Mashelkar', written in a cursive style.

R. A. Mashelkar



Introduction



Anil K Gupta

Executive Vice Chairperson, NIF, Ahmedabad
Professor, Indian Institute of Management,
Ahmedabad

NIF has continued to struggle with the rising societal expectations from it and declining resources available with it. It has to constantly reinvent itself and identify new ways of what Dr. R A Mashelkar, Chairperson, NIF says, “getting more from less for many.” While working with frugal innovators, it has succeeded in achieving very high standards of frugality in its own working thanks to its ability to draw upon sumptuous social capital of Honey Bee Network. A very large number of scientists, technologists and fabricators have not charged the NIF for validation and value addition in people’s knowledge/innovations. This has helped NIF in using limited funds for supporting larger number of innovators and outstanding tradition knowledge holders.

Support by DST, ICMR, CSIR and ICAR institutions, State Agricultural Universities and numerous other private S and T institutions, apart from the fabricators, designers has been extremely useful in this frugal journey for supporting frugal, grassroots green innovations. NIF wishes to put on record its deepest appreciation for their most generous and ever helpful contribution.

India cares for creative common people: The Presidential Initiatives

The Hon’ble President of India, Shri Pranab Mukherjee has given a great push to the green grassroots innovation movement. He has decided to inaugurate Innovation clubs, exhibition of Innovations, and link innovators with academia during his visit to Central Universities and NITs. Beginning with the inauguration of National Innovation Club in Babasaheb Bhimrao Ambedkar University, Lucknow on May 10, 2013,

the Hon’ble President exhorted the academia to set up such National Innovation Club chapters in every university and college. The purpose of these clubs is to provide hand holding support to local innovators by linking formal and informal sector. Primarily, the clubs aim at four functions viz. search, spread, sand celebrate innovations and sense the unmet social needs. If every club searches various kinds of innovations in its hinterland, respect for creative, self-triggered, self-inspired people will increase. Spreading the innovations from Honey Bee Database, NIF website but also other sources will reinforce the experimental and innovative spirit. Celebrating innovations by inviting innovators to classes will motivate the young students and help them learn about frugality, generosity and creativity. The sensing of unmet social needs is an extremely important goal of the clubs. If all the students can map the unmet social needs, a new grounded impetus will be given to search for future innovations. Further, at least one reason for institutionalized inertia will not be there, “we did not know”.

On December 11, 2013, his birthday, the Hon’ble President launched an ‘In-residence’ Programme for writers, artists and innovation scholars at Rashtrapati Bhavan. This will add a new dimension to grassroots innovation movement. The Hon’ble President will interact with them to inspire them during their stay at Rashtrapati Bhavan. These Innovation Scholars can also be challenged to address unmet social needs scouted through National Innovation Clubs. The Hon’ble President of India also inaugurated the National Exhibition of Innovations at Rashtrapati Bhavan estate, New Delhi on March 7, 2014.

The Hon'ble Vice President, Shri Mohammad Hamid Ansari in a meeting with NIF team on April 5, 2013 provided guidance for promoting the activities of grassroots innovation at the global level. The Hon'ble Vice President suggested using the platform of Rajya Sabha television for wider dissemination of grassroots innovations, which may also help NIF to source ideas and innovations of the grassroots innovators and students.

Respecting, recognizing and rewarding innovators

The 31st Shodh Yatra was organised in the Wardha district of Maharashtra in summers and the 32nd Shodh Yatra in Jalandhar district of Punjab during winters. In both the places, several innovative solutions developed by individuals and local communities were discovered. Some of them were felicitated at their doorsteps in front of their community so that others may also draw inspiration from. During the yatra in Vidharbha region, it was observed that despite so much opportunity, very little had been done to conserve rain water. In Punjab, the green revolution has brought about a lot of prosperity but the widespread problem of drug addiction even among children has taken a heavy toll of the cultural capital of the society.

In the IGNITE 13 National Award function, a total of 44 student innovators were awarded for their creative ideas and innovations at the hands of the Hon'ble Dr. APJ Abdul Kalam. These students came from 25 districts of 17 states and union territories of the country and were selected among the pool of thousands who participated.

Building linkages, leveraging social capital

NIF supported the organization of the First National Seminar on Social Innovations for Inclusive Development by Indian Institute of Management, Ahmedabad at Pune on November 17, 2013. Pune International Center, Pune, International Longevity Centre, India, SRISTI and Honey Bee Network also collaborated with IIMA for organizing the same. The idea was to explore the support of various social innovators in wider diffusion of technological innovations apart from learning from the strategies of overcoming social inertia.

NIF partnered with the Performance Management Division, Cabinet Secretariat for a workshop to help various Union Ministries prepare an Action Plan on Innovations. It also helped various Central Universities to initiate National Innovation Clubs and organize innovation exhibitions during the visit of the Hon'ble President.

During the year, NIF succeeded in getting a USA patent granted to a tribal healer from Jharkhand for treating typhoid using a herbal formulation despite initial opposition by TKDL of India. This only goes to show once again that grassroots communities have considerable knowledge of global significance.

NIF has continued to expand opportunities for grassroots innovators and traditional knowledge holders, and students. The goal of inclusive development was pursued through creation and support of community fabrication workshop in different parts of the country including north-east and J & K. Several seminars were organized to

build capacity of new civils society actors in supporting scouting and documentation function at NIF.

Thanks to the agreement with Gram Bharati, Amrapur, a very reputed Gandhian rural education and development institution, NIF moved several of its activities there to get closer to rural hinterland. Long term relationship of SRISTI and HBN with Gram Bharati was very helpful in forging this new partnership.

On farm research, green house experiments, validation and value addition in grassroots knowledge and innovations have continued in collaboration with SRISTI-Sadbhav-Sanshodhan natural product laboratory.

The Team-NIF has continued to excel in serving the creative communities through their extraordinary devotion and dedication. I compliment them all for often going beyond the call of duty. For instance, in one case NIF helped an innovator get a large order for supplying his innovative solution to a state body. But the innovator had never handled large scale fabrication on his own. The staff of NIF stayed with the innovator, found suppliers, fabricators and built entire fabrication chain and helped him fulfill part of the order. Building capacity of innovator by extending handholding support to innovators has been a core part of the DNA of NIF.

I thank the Chair, Dr. R A Mashelkar for his continued guidance and ever enthusiastic support for taking up various initiatives often with no prior experience or template. Dr. Vipin Kumar, Director and Chief Innovation Officer, NIF has provided an exemplary leadership not just to NIF

but the entire inclusive innovation movement in the country. Global interest in learning from NIF's experience continues to remain very high. Several delegations have visited NIF and learned from open culture of the Institution. I hope that culture and values of Honey Bee Network embedded in the working of NIF will continue to sustain India's quest for not letting a single good idea unattended.

I also hope that all colleagues in Department of Science and Technology, Government of India and the state governments will continue to strengthen NIF's hands in meeting the rising aspiration of creative communities of our country.

*Let the clouds not hesitate, nor should winds be frozen
Let the rain of restorative grace shower
Let the ideas sprout in soils not tilled for years
Let the collaborative spirit guide and groom
The minds young and old,
To make India a beacon of hope for
The minds on the margins
Which are not marginal minds worldwide*



Anil K Gupta



Director's Message



Vipin Kumar

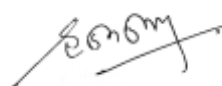
Director and Chief Innovation Officer

A number of new initiatives marked the year 2013-14, where National Innovation Foundation – India was expected to play a significant wider role for innovation promotion in the country. NIF supported the Performance Management Division, Cabinet Secretariat to help initiate Innovation Action Plans in various Departments. At the behest of the Rashtrapati Bhavan, it also facilitated Central Universities to set up National Innovation Clubs and organise innovation exhibitions during the visit of the Hon'ble President at the University. The inaugural Innovation Scholar-in-residence program of the Rashtrapati Bhavan was also facilitated by NIF.

NIF has been evolving over the years, putting together different segments of the innovation value chain. The initial focus on scouting and documentation was necessary to aggregate ideas, innovations and traditional knowledge to feed into the innovation funnel. The activities related to validation and value addition, Intellectual Property protection and diffusion of innovative technologies through commercial and non-commercial channels are now being taken up with greater rigour to take forward the identified innovations further ahead in the value chain. To achieve this, NIF has been partnering with a number of institutions and organisations across disciplines and verticals all over the country. Much has been done and much still remains desired however, the organisation is determined to continue on its path, unabated, towards achieving its goal. NIF welcomes the support of all to help realise the aspiration to be an inclusive and innovative nation.

I would also like to take this opportunity to thank our Chairperson, Dr RA Mashelkar and Executive Vice Chair, Prof Anil Gupta and other Governing Board Members for providing us inspiration and guidance from time to time. The support of the Secretary and other officials of the Department of Science and Technology is also gratefully acknowledged. My team at NIF and Honey Bee Network collaborators deserve much appreciation for their hard work and contribution to the mission of making India innovative.

With my best wishes to all



Vipin Kumar

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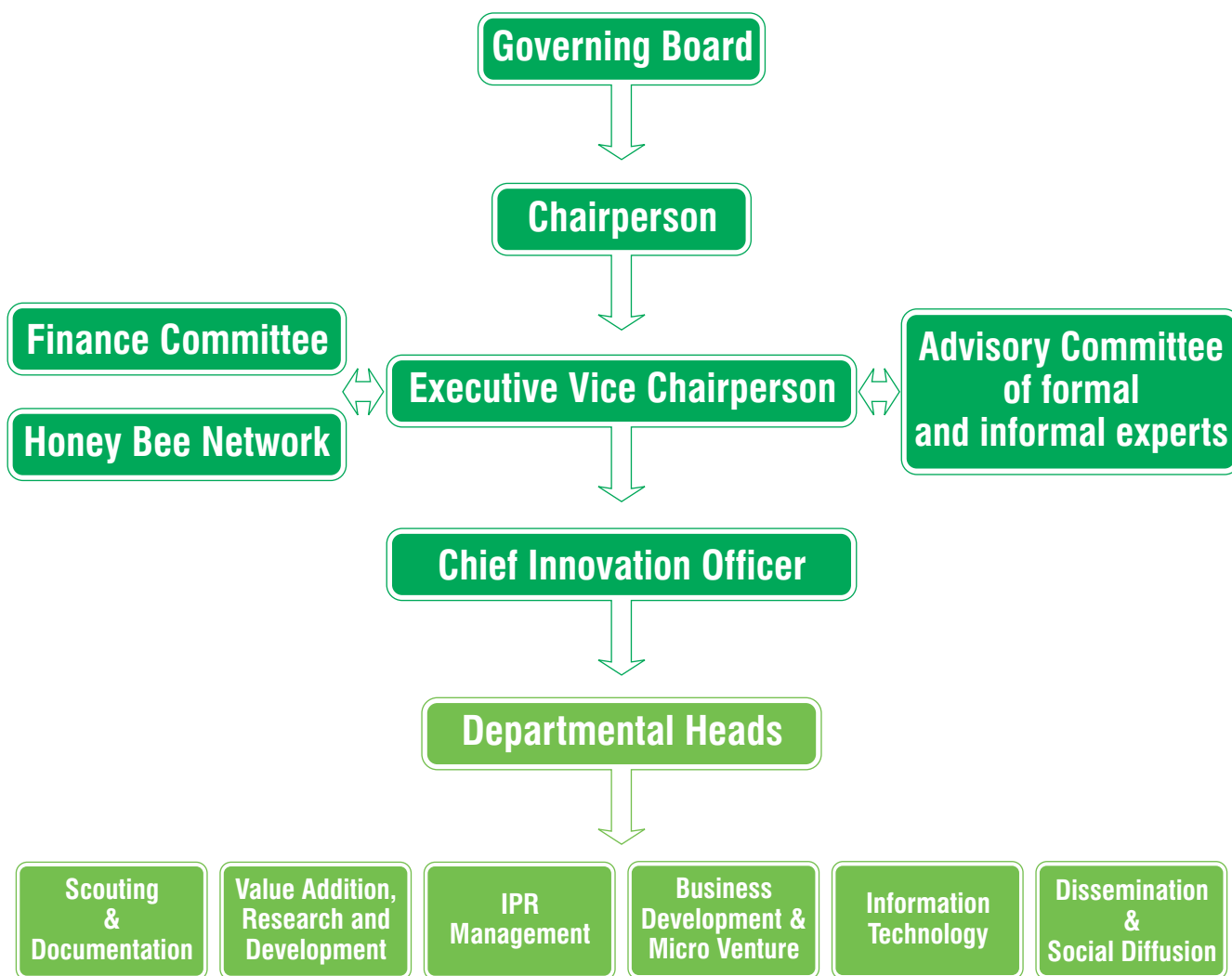
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Organisational Chart



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Leadership Roles: creating new benchmarks

National Innovation Foundation – India (NIF) is increasingly been seen as a pivot of many national initiatives in promoting innovations in different sectors of economy and at various levels in society. One of the challenging roles NIF played in this regard was the facilitation of a workshop to help about eighty central government departments prepare an Action Plan on Innovations. Performance Management Division, Cabinet Secretariat had organized these workshops to incorporate innovation agenda in the Results Framework Documents (RFD) of different departments.

The office of the President of India has taken many new initiatives to embed the concern for inclusive innovations and partnership between institutions of higher education and grassroots innovators and communities. During the visit of the President to various central universities, NIF helps in organizing innovation exhibition and setting up of National Innovation Clubs. These clubs are expected to search, spread and celebrate innovations and help in sensing the unmet social needs in their hinterland.

The year saw an unprecedented response to IGNITE, the competition to recognize the ideas of the students in and out of schools. Significant progress was made in adding value to the ideas of children and in linking them with the industry. NIF also succeeded in getting a herbal healer grant of a US patent despite initial opposition by Traditional Knowledge Digital Library (TKDL), India. Several innovators were supported to create community fabrication workshops. Efforts to diffuse grassroots innovations were invigorated much more during the year.

The year culminated on a high note with the Chairperson, Dr RA Mashelkar being conferred Padma Vibhushan, the second highest civilian award at the hands of the Hon'ble President of India, Shri Pranab Mukherjee.



Rapid compost maker of Gurmail Singh Dhoshi, Rajasthan



Walks in pursuit of creativity: the Shodh Yatras




३९वी शोधयात्रा, वर्धा (महाराष्ट्र)
दिनांक ०५ ते १२ मे, २०१३
सेवाग्राम आश्रम- वर्धा ते हेटीकुंडी (करंजा ब्लॉक)
 

Summer Shodh Yatra

The 31st Shodh Yatra was organised from Sevagram to Hetikundi in the Wardha district of Maharashtra during May 5 - 12, 2013 by SRISTI, NIF and other Honey Bee Network members. Over a period of seven days, 60 people from different walks of life and various parts of the country, and abroad, walked together about 120 km to learn from four teachers: a) teacher within, b) nature, c) each other and d) common people. This journey of exploration on foot took the shodh yatri through villages, forests and fields in sweltering heat. Sevagram was set up by Gandhiji in 1936 at the age of 67 years. He later spent many years here. The yatri also visited Acharya Vinoba Bhave's Paunar ashram a few kilometres away from Sevagram. Starting the Shodh Yatra from the karmbhoomi of Gandhiji and later visiting Vinoba Ashram was very inspiring for all the shodh yatri. These visits triggered a kind of spiritual awakening among the shodh yatri who vowed to rededicate themselves to the cause of the creativity at the grassroots while following the values of frugality, simplicity and transparency.

Sheikh Jabbar from Nagpur, NIF award winner for his pedal rickshaw with gears and motors;

Sheikh Jahangir from Jalgaon, awarded for his scooter based innovations; and Dharamveer from Yamunanagar, awarded for his multipurpose food and fruit processing machine participated in the Shodh Yatra. Dadaji Khobragade, recipient of Presidential award for his paddy varieties also joined the yatra briefly. During the yatra, Dharamveer demonstrated his mobile irrigation system to the villagers. This was developed at the behest of Smt. Pratibha Devisingh Patil, former President of India. She wanted a solution for the farmers of Vidharba region (and other such regions) who suffer from crop failure many a time due to less/no rain at the critical stages of the crops. Sheikh Jahangir informed the shodh yatri about his Rancho school, which has about 300 children, to impart life skill training to students. Many of the students have turned innovators themselves. Other technologies that were demonstrated during the Yatra included bicycle sprayer, sugarcane bud chipper, and bicycle hoe. Incidentally, Sheikh Jahangir is one of the two innovators whose innovation of scooter mounted flour grinding mill was popularized in Three Idiots film in collaboration with us.



Winter Shodh Yatra

The 32nd Shodh Yatra was organized in the Jalandhar district of Punjab during December 28, 2013 to January 2, 2014. Over eighty shodh yatris from various parts of the country and from other countries like Sweden, Germany, Holland, Russia, France and Singapore walked for about 90 km together. The Yatra started at Nirmal Kuteya, Sultanpur Lodhi. Rich tributes were paid by the shodh yatris to the valiant efforts of Sant Balbir Singh Seechewal to clean the Kali Bein river when state and the legal systems proved inadequate in the matter.

The yatris met a number of innovators during the Yatra. Lakhwinder Singh of Busowal village had developed a small machine to sow gladiolus flower bulbs. In another village, Ali Khurdkalan, the yatris met Gurdoyal Singh and Varjan Singh, who had developed an onion variety where one could get up to 27 onions from one bulb, may be a kind of stem or Egyptian walking onion. The yatris also found a cycle hoe in Bhago Buddha village, similar to what Gopalbhai Bhise developed in Maharashtra and innovators developed in China. Carrot cleaning machines

were also found on the way. A frugal and simple innovation for serving water to those eating food sitting on ground was found in the Lodhiwal village. Dharamveer Kamboj also demonstrated his multipurpose food processing machine in various villages, explaining how his machine could make mint extract, ber juice, and gooseberry juice without crushing seeds.

During the Shodh Yatra, the yatris organised a number of village meetings, idea and biodiversity competitions, met creative artisans, musicians, outstanding traditional knowledge holders and innovators. Much effort was also put in to demonstrate socially relevant grassroots technologies to the villagers during the yatras. Posters in local language describing grassroots solutions to local agricultural and veterinary problems were put up in all the villages along with posters of the NIF's national campaign, Ignite competition and other Honey Bee Network activities including promotion of educational, institutional, and cultural creativity.



Children impatient with inertia: the IGNITE 2013 awards

The IGNITE 13 award ceremony was organized on Feb 19, 2014 at IIM Ahmedabad to recognize innovations by school children. IGNITE is a national competition of original technological ideas and innovations of children upto class 12 only. IGNITE is organised by NIF in association with Central Board of Secondary Education (CBSE), Society for Research and Initiatives in Sustainable Technologies and Institutions (SRISTI), and other partners. A number of other State Educational Boards viz. West Bengal Board of Secondary Education, Punjab School Education Board, Haryana School Education Board, Goa Board of Secondary and Higher Education, Meghalaya Board of School Education and Chhattisgarh Madhyamik Siksha Mandal also actively promoted the IGNITE campaign.

Overall 20836 submissions of students from 301 districts of 33 states & union territories of the country were received for IGNITE 2013

(September 1, 2012 to August 31, 2013). The awards of IGNITE 2013 were announced on October 15th, Dr APJ Abdul Kalam's birthday, which is celebrated as the Children's Creativity and Innovation Day by NIF.

In IGNITE 2013, a total of 44 students from 25 districts of 17 states and union territories got 26 awards for their ideas/innovations at the hands of Dr APJ Abdul Kalam at IIMA. An exhibition of all award winning ideas/innovations was also organised at the venue. NIF filed patents in all applicable cases in the name of the students and handed over the patent application copies to the students. It also engaged designers/fabricators to develop prototypes of the students' ideas, which were displayed at the exhibition. Dr Kalam also met some inspired school teachers who use innovative pedagogy for teaching and Gandhian Young Technologist Award winners of SRISTI's competition among engineering student projects.



The Fifth Innovation Exhibition at the Rashtrapati Bhavan, New Delhi

The Hon'ble President of India, Shri Pranab Mukherjee inaugurated the National Exhibition of Innovations at Rashtrapati Bhavan estate, New Delhi on March 7, 2014. A total of 41 innovative technologies including seven from students were showcased at the exhibition. In addition, community knowledge based herbal products for human, veterinary and plant health, were also exhibited under the "Mind to Market" Pavilion. The Hon'ble President also interacted with innovators from different parts of country. The exhibition was open during March 7 – 13, 2014 for public.

As one of the distinctive innovation clusters, seven variants of motor cycle driven Santi plough and other farm equipment were showcased in a special pavilion. Using the chassis, drive and power of a motorcycle in front, the innovator Mansukhbhai Jagani reduced the speed, increased the torque to attach various farm implements to a multi-purpose tool bar. Later, in several derivative innovations, other innovators created new chassis and developed different modifications to suit location specific needs. How ploughing, sowing crops, weeding, and spraying are done by farmers who cannot afford tractor and cannot keep bullocks due to fodder shortage was brought out in this cluster of derivative innovations. Many other users and innovators are allowed to copy this technology and make modifications according to their requirements.

This has led to the evolution of the concept of 'Technology Commons' implying no restrictions for other self-employed innovators and users to copy and adapt. But commercial firms will need license from members of the 'Technology Commons'.

These innovation showcased were selected after a rigorous screening at different levels. All the entries were subjected to technical and prior art search to ascertain the novelty/distinction

and/or cost effectiveness. NIF has supported most of them for validation of their claims, value addition in them and product development besides dissemination. The patents for all the technologies were filed in the name of grassroots innovators.

An innovators' meet was organized on March 8, 2014, where innovators were requested to share their experiences. They were also urged to look for other creative people from their own regions and send their details to NIF so that it can try to support all worthy ideas/innovations. Another meeting of representatives of National Innovation Clubs set up in various universities was also organized on March 11, 2014 for exploring the possibility to involve students of universities in scouting and documentation as well as for dissemination of innovations. At the suggestion of the President, Shri Pranab Mukherjee, National Innovation Clubs are to be set up in every university and college to promote creativity and build linkages between formal and informal sector. In the meeting the faculty and researchers from Osmania University, Hyderabad, Jamia Millia University, Delhi, Babasaheb Bhimrao Ambedkar University, Lucknow, Assam University, Silchar, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, University of Delhi, Delhi and Central University of Rajasthan, Ajmer participated.







Sectional Activities

Sectional Activities

a) Scouting and Documentation

National Biennial Campaigns

The Ninth National Biennial Competition started from April 1, 2013 and will accept entries till March 31, 2015. During the first year of the biennial competition, about 20000 entries have been mobilized from different parts of the country.

The Eighth National Biennial Competition for unaided grassroots innovations and outstanding traditional knowledge (2011-13) concluded on March 31, 2013 with about 35,000 submissions (not all new or unique).

IGNITE 14 national competition

IGNITE – the national competition for discovering original technological ideas and innovations by school students started receiving the entries for the 2014 awards after conclusion of the 2013 edition. Till March 2014, about 5, 000 entries had been received. In addition to the Central Board of Secondary Education, many other State Education Boards are also expected to join hands in the campaign as before.

Workshops and meetings

A national Scouting and Documentation (S&D) workshop was organized during August 6-7, 2013 at Grambharati, Amrapur, Gandhinagar where over fifty scouts and volunteers from fifteen states participated. The aim of the workshop was to review the S&D activities, learn from each other's experiences, and develop strategies for further work. Another meeting of innovators, herbal healers and other grassroots level functionaries from Bihar was organised on April 7, 2013 at Patna. The work done by the Honey Bee Network and NIF was showcased and opinion sought for expanding the network to reach out to more grassroots innovators and outstanding traditional knowledge holders. The participants of the workshop came from 14 districts across Bihar.

NIF supported Palle Srujana to organize a two day knowledge exchange meet of traditional healers of Andhra Pradesh during May 24-25, 2013 at Hyderabad. Twenty five herbal healers

from the tribal belts of Adilabad, Warangal, Srikakulam, Kurnool and Visakhapatnam participated in the meeting along with experts from the formal sector. Some other idea competitions and innovation awareness programs were organized in different parts of the country. For expanding the network, a presentation on scouting and documentation of GRIs was made before 40 botanists from different universities during a seminar cum workshop from March 13-15, 2014 at Jiwaji University, Gwalior.



Walnut cracker of Mushtaq Ahmed Dar, Jammu & Kashmir

Sectional Activities

b) Value Addition, Research and Development

Expert Committee Meetings to review progress in engineering innovations

A meeting cum workshop was organised on May 23, 2013 to review innovations for eliminating child labour. The experts reviewed various grassroots technologies, which can eliminate or reduce child labour by increasing productivity/work rate, income of parents, and reducing drudgery. Few technologies were identified in construction and farming sector, which need to be improved and diffused through multi location trials.

An expert committee meeting was held on October 4, 2013 to review IGNITE entries having some potential for solving social or personal problems. The committee reviewed 44 ideas and innovations and recommended 26 ideas/innovations for awards. The committee also reviewed the test report of stoves, prototypes of paddy transplanter and tea leaves plucker submitted under the Gandhian Inclusive Innovation Challenge Awards; the committee did not find any submission eligible for the awards and recommended re-advertising/ re-announcing the challenge. Sardar Patel Renewable Energy Research Institute (SPRERI), Vallabh Vidhyanagar (Anand) was engaged to test these stoves. The stoves were found to have thermal efficiency ranging between 7.42 and 25.97%, and power rating between 0.19 and 2.91 kW.

A Project Review Committee (PRC) meeting was held on February 17, 2014 for reviewing the progress of ongoing projects and assessing new proposals. The progress of ongoing projects at IIT Gandhinagar; IIT, Kharagpur; IIT Guwahati; Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar; M/s Lumium Innovations Pvt. Ltd., Ahmedabad; Srishti School of Arts, Design and Technology, Bangalore was reviewed and feedback was given on each project to respective investigators. New project proposals for extending support to innovators for setting up community workshops and improved prototype development, strengthening of FAB Lab at NIF were also reviewed by the PRC.

Development of improved prototypes and testing

A number of companies and institutes were engaged to add value in prototypes of the innovators and also convert student ideas into prototypes. These include Simple Labs, Chennai for development of prototypes of 'Shirt that keeps you awake', 'Noiseless horn', 'Modified headphones/earphones which enable hearing the horn', 'Door and bell with visitor codes'; LUMIUM Innovations Pvt. Ltd. Ahmedabad for design and development of 'smart controller with localized temperature reading capability for ceiling fan speed regulation'; Embedtronics, Ahmedabad for development of 'System which reminds the owner if keys are forgotten in the vehicle', 'Oxygen/carbon dioxide level indicators in car' and 'Landline phone with status notifier'; and fabricator K M Patel, Ahmedabad for design and development of 'improved prototype of bed sheet squeezer'.

The functional prototypes of 'water bottle with puncturing mechanism', 'smart chair which triggers an alarm if a person sits on it in a wrong posture', 'modified cart with braking and steering mechanism', 'multi-colour headphone wires', 'modified torch which has multifocal lights', 'mobile phone with inbuilt charger', 'concentration pen', 'smart purse', 'model of spike system in road at crossings to control traffic' (ideas selected for IGNITE 13 awards) were developed at the Fab Lab of NIF. In addition, a number of innovators from different parts of the country were directly supported for prototype development and testing.

The testing of pollution controller of Birendra Sinha (Bihar) was completed at the Automotive Research Association of India (ARAI), Pune. It was observed that by attaching this pollution controller there was significant reduction in particulate matter content in the smoke. The testing of mitticool fridge of Mansukhbhai Prajapati (Gujarat) was completed at Navsari Agricultural University, Navsari. It was observed that there was a temperature drop of 4 to 5° C from the ambient temperature in the fridge. For

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vegetables stored in the mitticool, an increase in shelf life and reduction in microbial infection was found when compared to those stored at room conditions. The testing of some other innovations is ongoing.

Strengthening of Fabrication Facilities

The Fab Lab of NIF has been shifted to its upcoming campus at Grambharti, Amrapur from Electronics and Quality Development Center (EQDC), Gandhinagar. In order to further strengthen the fabrication facilities in the Fab Lab, the process of procurement of different machines including 3D Printer, Vacuum Forming Machine, TIG Welding machine, Spot Welding Machine, Manual Pipe bender, Gas welder cum cutter, Compressor with spray gun, etc., has been started.

Two community workshops were set up at the place of innovators K. Nicholson Singh, Manipur and G. K. Ratnakar, Karnataka. Additional support has also been given for expansion of the community workshop already set up at the place of innovator Kanak Das, Assam. NIF has now established 34 such community workshops in 18 states of the country at the premises of seasoned innovators so that other grassroots innovators of the region can have access to fabrication facilities and also learn from their experience. In June 2013, two meetings of regional innovators were held at community workshops set up by NIF at the places of Madanlal Kumawat, Sikar, Rajasthan and Gurmail Singh Dhonshi, Sri Ganganagar, Rajasthan.

The innovators of the region were quite excited and keen to work at the community workshops. Similar meetings of innovators are being planned at other community workshops. In order to make community workshops more effective, local innovators are being encouraged to visit the workshops and work there. Responsibility of mentoring the community workshops has been allocated to NIF team members. Efforts are also on to identify local and global mentors who can mentor the innovators on a regular basis.

Workshop on Technological Innovations for Eliminating Child Labour

NIF supported SRISTI in organizing a workshop on eliminating child labour in association with International Labour Organization (ILO). The purpose was to identify technological innovations that a) help in eliminating child labour, b) enhance the income of parents so that they do not have to send children to work and c) reduce or eliminate hazardous conditions so that workers do not have to work under risky conditions and thus have low productive life or accidents which may force children to work. Considering the seriousness of the issue, on behalf of the innovators, NIF nominated 47 ideas/technologies. In total 269 ideas/technologies were received.

The workshop was organised for short listing potential innovations. It was recognised that while eliminating jobs done by children from conventional domains through diffusion of new technological innovations, income of the parents should also be enhanced. Experts from academia (IITs, Design Schools), design companies (national and multi-national), NGOs, etc., attended the workshop and provided insights on various technologies that were presented. More than 60 shortlisted ideas/technologies were presented in the workshop for further evaluation/comments from the experts. Based on their comment, 43 technologies/ideas were selected for the preparation of a compendium to showcase innovations that may help eliminate child labour.

Herbal agricultural, human health and veterinary technologies

New Formulations of Herbal Tea

Six types of value added herbal tea formulations viz. anti-obesity, anti-diabetic, anti-ageing, anti-hypertensive, anti-oxidant and anti-inflammatory were developed by NIF. Herbs were blended in an appropriate ratio with tea selected from Kangra region of Himachal Pradesh. The prepared blends were evaluated for their quality

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and taste as per standard methods. All the six types of tea were pre-launched during the Sattvik food festival through Yuvan Long Life Pvt. Ltd. during December 21-23, 2013 at IIM Ahmedabad.

Setting up of Herbarium and Crude Drug Repository under NIF-ICMR Collaboration

A herbarium and crude drug repository facility has been established at NIF exclusively for selected non-codified plants in collaboration with Sadbhav SRISTI Sanshodhan Lab. It is a unique attempt, no such herbarium and repository exists in India and this will be the first of its type. This will also have the associated biological activities data of the unique uses of the plants.

Herbal Technologies Sent for Validation to different Institutes

About 32 herbal leads/technologies claimed to be useful for treatment of liver disorders, asthma, hypertension, diabetic and cataract were sent for validation at B.V. Patel PERD Centre, Ahmedabad and HSK College of Pharmacy, Bagalkot. Three herbal dyes were sent for evaluation of acute dermal/irritation and acute oral toxicity at VESGOP, Mumbai, as per OECD guidelines.

Ten herbal formulations claimed to be effective against different pests and diseases of crop plants were sent for validation at SDAU, Dantiwada. The trials are being conducted on brinjal and okra.

Five farmers' varieties for three crops (mustard-1, rice-3, mango-1) were sent for validation at Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Central Soil Salinity Research Institute, Karnal and S. K. Rajasthan Agricultural University, Bikaner respectively.

Application for varietal registration for Pepper Thekken (black pepper) variety was sent to PPV&FR Authority, New Delhi.

Herbal practices validated at Grambharti Research Plot

Eleven herbal formulations (GC, TSP, RATN,

SATE, SAP, NBR, HJP, CM, etc.) were evaluated for their ability to control the pests and promote the growth and yield of crops. The formulations were found to be effective in controlling the pest population and in promoting growth and yield of the crops. GC@6ml/L and NBR@5 ml/L were found to be effective reducing leaf curl disease in chilly by 34.31 and 34.47% respectively. Treatment with formulation viz., BKS exhibited positive effects on growth parameters and increased number of branches, plant height and yield.

Twenty demonstration trials were conducted at farmers' field in different crops such as cotton, brinjal, paddy, castor, chilly, tomato and cowpea.

Validation Report Received

Validation of two herbal extracts for their anti-diabetic activity was carried out on Wistar rats using a dose of 200.00 mg/kg b.w. once a day for 15 days at PERD Centre. The reports revealed that both the plant extracts have potential anti-diabetic activities. A significant reduction in the blood glucose level was observed in all the treatment groups as compared to the disease control animals. There were no major behavioural changes in any of the treatment groups and also no abnormalities were detected on necropsy in all the animals.

The anti-hypertensive activities of two herbal extracts were evaluated in male Sprague-Dawley rats after an oral dose of 200.00 mg/kg b.w. once a day for 15 days at PERD Centre. Significant decreases in the systolic, diastolic and mean arterial pressures were observed in all the test groups as compared to the disease control group. No major behavioural changes were observed in any of the groups.

A herbal practice for anti-inflammatory and wound healing activity was validated at Synapse Life Sciences, Hyderabad. The extract exhibited significant reduction in rat paw oedema. The results of wound healing activity revealed the enhanced rate of wound contraction in animals treated with extract, as compared to control group.

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Ten herbal agriculture products were evaluated at PAU, Ludhiana and GBPUAT, Pant Nagar. The herbal pesticide formulations were found to be effective in reducing the pest population as compared to the control group. Increase in the plant biomass, height and yield was recorded by the herbal growth promoter. One formulation (GC) was sent for evaluation of its anti-nematode activity on barley and brinjal crop at SK Rajasthan Agriculture University, Bikaner. The formulation effectively reduced the nematode population as compared to the untreated control plots.

On-site evaluation of mango variety was done by S. K. Rajasthan Agricultural University, Bikaner. The variety was found tolerant to leaf scorching disorder and resistant to mango gall formation disease.

Veterinary practices under validation

For two practices of endoparasite infestation, the *in vivo* test results of naturally infested goats with *Haemonchus contortus* at the Department of Veterinary Clinical Medicine, Nagpur Veterinary College were found to be comparable with albendazole, standard drug of choice for treatment of endoparasite infestation.

Clinical conditions for mastitis were confirmed and examined for causative organisms *viz.*, *Pseudomonas sp.*, *Klebsiella sp.*, *E. coli*, *Staphylococcus sp.*, and *Streptococcus sp.*, at Madras Veterinary College. A trial drug (MAAC) was found to improve udder consistency and milk production with no flakes noticeable second day after administration. An ectoparasite medication was clinically tested, which confirmed its efficacy over *Haemaphysalis bispinosa* in goat and *Hyalomma anatolicum* in cattle. Therapeutic evaluation of a medication for enteritis was carried out and confirmed against etiological agents such as *Strongyle sp.*, *Eimeria sp.*, and microbial organisms *Campylobacter sp.*, *E. coli* and *Salmonella sp.*

Clinical evaluation of unique medicinal practices for tonic properties, fever of unknown origin, endoparasite infestation, abscess were conducted at College of Veterinary Science,

Jammu and three ectoparasite formulations were tested at Bombay Veterinary College.

Integrated tick control program

A community led tick control program was started in one village of Gandhinagar district, Gujarat and animals in the village were clinically examined for tick infestation for two days. An indigenous herbal medication helped farmers to significantly control ectoparasite infestation due to *Rhipicephalus (Boophilus) microplus* and *Hyalomma spp.*

Therapeutic Evidence for Anti-diarrhoeal Formulations with the Help of Partnership with Community, Indiranagar Hamlet, Gandhinagar District, Gujarat

Two community medications for treatment of endoparasite infestation were tested with help of villagers. The research team examined the affected animals and found 57.14 percent of animals affected with endoparasite. The experimental study found that the two medications significantly reduced the worm load and can be used for control of endoparasite infestation under field conditions.

New Projects for Validation of Animal Health and Poultry Practices

Validation activities for indigenous veterinary practices for curing ailments like bloat, retention of placenta and post-partum anestrus, were initiated at Dept. of Veterinary Clinical Medicine and Dept. of Veterinary Gynaecology, Nagpur Veterinary College, Maharashtra Animal & Fishery Sciences University (MAFSU), Maharashtra. Ephemeral fever, a common viral disease affecting bovines was taken up at Dr. G C Negi College of Veterinary and Animal Sciences (CSKHPKV), Palampur, Himachal Pradesh. Indigenous poultry practices for relieving respiratory infection among birds is being carried out at Tamil Nadu Veterinary & Animal Sciences University (TNUVAS) and for evaluating feed supplement for protection against bacterial infections in broilers is being conducted at Karnataka Veterinary, Animal & Fisheries Sciences University (KVAFSU), Bidar.

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c) Business Development and Micro Venture

Micro Venture Innovation Fund (MVIF)

Financial support for six projects was provided to innovators to scale up their business and about Rs.14.5 lakh was disbursed during the year under MVIF. New projects worth Rs.13 lakh were sanctioned this year. An amount of Rs. 28 lakh was received towards MVIF repayment from the innovators.

Taking Grassroots Innovations to the Market

Suntec Agri Equipments, a Bangalore based company, entered into an agreement with NIF on April 29, 2013 for marketing milking machines of the grassroots innovator, Raghav Gowda, from Dakshina Kannada, Karnataka. Gowda's Ksheera Enterprise currently manufactures and markets the milking machines, which are available in four variants a) manually operated b) semi-automatic single cluster AC motor driven c) semi-automatic double cluster AC motor driven and d) semi-automatic 12V DC battery operated. Under the agreement, Suntec Agri Equipments, which is a leading importer and distributor of economical agricultural equipments, will have exclusive marketing rights for India (except Andhra Pradesh, Karnataka and Maharashtra).

On July 9, 2013, a MoU was signed with Pune based EnSigns Life Sciences Pvt. Ltd. and Jayshree Foods to form a new joint venture company to manufacture and market nutraceutical products globally. Under the proposed collaboration, NIF will provide nutraceutical technologies for the development of products, Jayshree Foods will be responsible for the manufacturing of the same while Ensigns shall make investments for marketing, brand building, generating working capital support for business in India and abroad. All the nutraceutical products will be sold under a new umbrella brand, which will be owned by a Flagship Company. The brand name will be used for retail and industrial products.

Subsequently, a new company 'Yuvan Longlife Pvt. Ltd' was formed with a focus on development, production & marketing of nutraceutical ingredients and food related

consumer products through the use of outstanding traditional knowledge documented and validated by NIF, which will have 34 percent equity in the company. In the first phase Yuvan Longlife launched six variants of tea namely viz. anti-ageing, anti-obesity, anti-inflammatory, anti-hypertensive, anti-diabetic, and anti-oxidant. All the herbs are blended with Kangra tea as it is rich in antioxidants, has rich poly-phenolic content like catechins and low caffeine content. It also has a unique aroma and flavor. These teas were pre-launched in the Traditional Food Festival at IIM Ahmedabad in December 2013 and also displayed during the Innovation Exhibition at the Rashtrapati Bhavan in March 2014.

MATSYAFED – the Kerala State Co-operative Federation for Fisheries Development, entered into an agreement with NIF and Qurmos Marine Equipments, a firm of grassroots innovator from Kerala, B. Mohanlal (innovator of Z-drive and gearbox for marine diesel engines) on December 3, 2013. Subsequently MATSYAFED also raised a purchase order for 100 such systems worth about Rs 70 lakh.

A MoU was signed with Aarti Seeds Research Agritech Pvt. Ltd. for production and marketing of Kudrat series of Pigeon Pea (Kudrat – 3) and Wheat varieties (Kudrat – 17 and Kudrat – 7) developed by Prakash Singh Raghuvanshi, farmer innovator from Varanasi. Raghuvanshi has been a national award winner of NIF and has developed a number of high yielding plant varieties of wheat, paddy, mustard and pigeon pea. Based at Nagpur, Maharashtra, Aarti Seeds and Research Agritech Pvt. Ltd. is a company dealing in crop seeds aiming to enhance the quality and productivity of various crops.

Dhampur Sugar Mills (Dhampur) is a leading integrated sugarcane processing company in India and has agreed to collaborate with NIF to promote technologies through manufacturing or marketing. In the first phase, NIF provided a list of about 100 innovations to Dhampur Sugar Mills of which they selected and purchased milking machine, Mitticool fridge, Kudrat wheat variety

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seeds, mustard variety seeds and a couple of herbal agricultural products. Starting from Uttar Pradesh and Uttarakhand, Dhampur intends to scale up activities pan-India.

Budding collaborations

NIF provided details of about 100 innovations to Tata industries categorizing them industry wise for sharing them with Tata group companies, viz. Tata Motors, Tata Chemicals, Rallis India, Tata Power, Indian group of Hotels and Tata steel. The hotel industry has expressed interest in the Garlic Peeling machine, Multi-purpose food processing machine and Chicken Dressing machine for improving their existing practices. Tata Power started discussion with Raisingh Dahiya for Biomass Gasifier. Tata Chemical has agreed to initiate discussions on nutraceutical product range. Rallis India has started discussions with NIF for pesticides and plant varieties. Tata steel is considering bamboo based innovations for CSR practices while Tata Agrico requested innovations from Odisha as they are interested in that region. NIF has shared around 40 innovations, which are either from Odisha or have relevance for the area. Tata Agrico is already collaborating with NIF in the areas of agricultural implements and is co-branding and marketing the sugarcane bud chipper machines of the innovator, Roshanlal Vishwakarma of Madhya Pradesh.

NIF is also in discussion with Godrej Agrovet and Zydus Cadila to initiate collaborative projects.

Reaching out

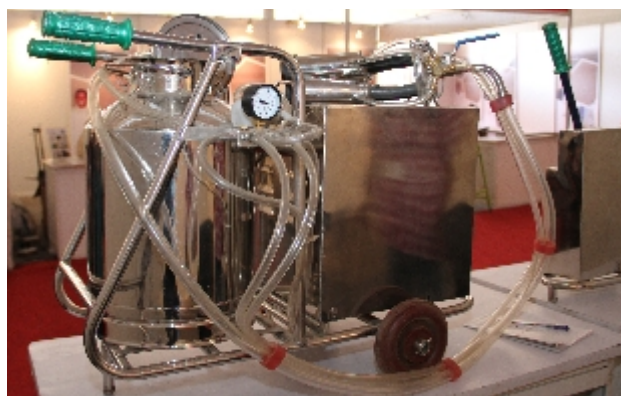
NIF participated in the India International Trade Fair (IITF) at Pragati Maidan, New Delhi during November 14-27, 2013. Eight innovations and fifteen traditional knowledge based herbal human and agricultural products were showcased in the exhibition. The visitors evinced good interest in NIF's innovations. About Rs. 10 lakh worth of innovative products were sold during the IITF and over 150 enquiries were also received.

On December 14, 2014, NIF team interacted with the members of the Young Presidents

Organization (YPO), who are second generation entrepreneurs of established businesses across the country. There were more than 70 entrepreneurs from diverse industries. The main purpose was to apprise the gathering of the activities at NIF and create awareness about grassroots innovation movement. Some of the YPO members showed great interest in NIF's work and innovations.

NIF also participated in 11th Traditional Food Festival, Sattvik 2013 organised by SRISTI at New Campus, IIM Ahmedabad during December 21-23, 2013. An exhibition of grassroots innovations was setup by NIF. Feedback of the visitors was taken on adjustable walker, travelling bag with a seat and mileage enhancer. These inputs are being considered for the value addition process and are helpful in preparing business plan for these innovations. The innovations on display included a set of three machines for incense stick making by Paresh Panchal, walker with adjustable legs by Shalini Kumari, improved knapsack sprayer by Mohan Muktaji Lamb and Coffee Cooker by Md. Rozadeen. Walnut cracker by Mushtaq Ahmad Dar, Tree climber by Late Appachan, Travelling bag with a seat by Nisha Choubey, Mileage enhancer by Harinaryan Prajapat, and Hand operated water-lifting device by N Sakthimainthan.

Business Development (BD) team of NIF participated in Krishi Vasant event during February 9-13, 2014 at Central Institute of Cotton Research (CICR), Nagpur where it displayed twenty technologies including plant varieties,



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farm machinery, and herbal products related to human, agriculture and animal health. NIF also participated in the exhibition, 'Aadhunik Kheti Avam Anna Prakriya' organized by Maharashtra Chamber of Commerce, Industry and Agriculture (MACCIA) at Aurangabad during February 22-25, 2014. These exhibitions provided a good opportunity for diffusion of innovations. Hundreds of inquiries were generated and innovative products worth lakhs of rupees were sold in these exhibitions. Many innovators also received confirmed orders and advance booking amount for their innovations.

d) Intellectual Property Rights

During this financial year, with the *pro bono* help of various law firms, the IPR division filed 68 patent applications including direct Complete Specification (CS) applications and Provisional Specification (PS) applications, 34 CS of innovations for which PS had been filed earlier, three applications for Design registration, and one Trademark Application and one application under Patent Cooperation Treaty (PCT). One application for protecting farmers' developed plant varieties was also filed with the PPV&FR Authority.

A patent application entitled 'Formulation for prevention and treatment of bacterial infections and preparations thereof' was earlier filed at USPTO in the name of herbal healer, late Shatrughna Prasad Vaidya (Jharkhand). The patent was granted (Patent No. 8445033) on May 21, 2013. This is first herbal US patent obtained by NIF on a herbal healer's knowledge.

e) Information Technology

As part of partial shifting of NIF's office to Grambharati, near Amrapur in Gandhinagar, a Virtual Private Network (VPN) between NIF's Ahmedabad and Grambharati campus was established to facilitate secure online communication and data transfer.

An Android smart phone application for Honey

Bee medicinal plant database has been developed and is being tested. With the help of an IT volunteer firm, a mobile based idea submission application has been developed using which smartphone users can simply type and submit an idea whenever it comes to their mind. The submitted ideas are received in designated emails and also stored in an online database. The system is being tested presently.

QR (Quick Response) codes for NIF's website, online submission of ideas, national biennial and IGNITE campaigns and a few innovation videos have been generated and are being used in posters, pamphlets and other print material. These QR codes, when scanned using a QR code scanner from a smart phone, directly take the user to the web address enabling him to view information or videos online.



NIF participated in the Second NKN (National Knowledge Network) Annual Workshop organized at Indian Institute of Science (IISc) Bangalore during October 17-19, 2013 jointly by the National Informatics Centre (NIC) and Indian Institute of Science, Bangalore. The objective of workshop was to focus on 'Enhancement of research collaborations through NKN'.

f) Dissemination and Social Diffusion

Partnerships

NIF, in partnership with Gujarat Livelihood Promotion Company (GLPC), UNICEF and SRISTI, organized a workshop of Samras Woman Sarpanchs of Gujarat at IIM Ahmedabad during December 6-7, 2013. The objectives of the workshop were to educate the women sarpanch about the role of innovation in inclusive development of village economy, to disseminate general practices of medicines on human health

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Samras Woman Sarpanch Workshop



and veterinary science, open source technology, commercial technologies and to encourage them to generate livelihood opportunities by use of such technologies, to encourage women to promote creativity and innovation at the grassroots level. As a follow up activity a number of workshops have been conducted in different villages in coordination with GLPC, where presentations about NIF were made and some useful innovations were showcased.

NIF and IFFCO Kisan Sanchar Ltd (IKSL) entered into an understanding on Feb 20, 2014, to develop synergies for dissemination innovations and innovative practices all across the country.

Grassroots Innovations Exhibition cum Demonstration Van

The multimedia mobile lab-cum-exhibition van for scouting, documentation, processing and dissemination of grassroots innovations was commissioned into service by NIF. The van is expected to travel across the country carrying innovations for setting up exhibition in the villages and other dissemination material.

Exhibitions

Three innovations viz. coffee cooker of Mohd. Rozadeen (Bihar), Mitticool clay fridge and non-

stick tawa of Mansukh Prajapati (Gujarat) were displayed at the London Design Festival in London during September 14 - 22, 2013 with the help of a student volunteer. The visitors much appreciated the work of the grassroots innovators.

NIF participated in DST's INSPIRE national camp organized at Pragati Maidan, New Delhi during October 8-10, 2013 where one thousand of the most creative students of the country participated with their science based projects. NIF displayed a few of student innovations like travelling bag with folding seat and helmet with luggage support, and distributed literature related to the IGNITE 14 campaign and NIF.

NIF facilitated the participation of grassroots innovators in the Indian Science Congress 2014 organised at the University of Jammu, Jammu. It set up an innovation pavilion where 18 innovators from 10 states displayed/demonstrated their innovations. Another fourteen innovations were displayed and a poster exhibition of over twelve dozen innovations was also set up at the venue in effort to showcase the creativity of people from all corners of the country. NIF's GIAN Cell J&K at the University of Kashmir, Srinagar actively supported the activity. This was the 101st Annual Session of Indian Science Congress which

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focused on the theme “Innovations in Science and Technology for Inclusive Development”.

Media

The Teenovation show on Zee Q channel (2012-13), profiling IGNITE awardees had won an award for the best edutainment/knowledge based show in the 12th Indian Telly Awards 2013. The shooting for the second season started in February. The show, which is being made by Rangrez Films for Zee Q channel, was also a finalist at the Prix Jeunesse International Awards 2014.

A documentary on the grassroots innovations movement was commissioned by Public Service Broadcasting Trust under the Indian Diplomacy initiative. It featured grassroots innovators Mansukhbhai Prajapati, Chintakindi Mallesham, Amrutbhai Agrawat, Bharatbhai Agrawat, Dharamveer Kamboj, Mushtaq and Mehtar Hussain, and others. It is available online at the following link –

<http://www.youtube.com/watch?v=qo2PQ9v9aGM>

NHK, Japan's public broadcaster for one of its show on India, profiled a few grassroots innovators namely Mansukhbhai Prajapati, Dharamveer Kamboj and Abhishek Bhagat.

During October–December 2013, The Times of India carried a series on grassroots innovation in its Ahmedabad edition named as India Innovates under which work of a number of grassroots innovators was profiled.

Recognitions to grassroots innovators

A number of student and grassroots innovators were recognized for their creativity and these include B Mohanlal (Kerala), innovator of tiltable Z drive and gearbox for marine engines, who won the Indian Merchants' Chambers (IMC) Inclusive Innovation Award 2013 of Rs 20 Lakh for his innovations; PL Banumurthy (Tamil Nadu), innovator of automatic saree border weft insertion technique, who won the First prize from among 1500 nominations across the country in a national event organised at Coimbatore by PSG Alumni Association; Student innovator Mohd. Usman Hanif Patel (Maharashtra), who received



Indian Science Congress, 2014

Moving Further Ahead

National Child Award 2013 for Exceptional Achievement for his achievement in the field of Technical Innovation by Ministry of Women & Child Development; Student innovator, Parth Vaidya (Madhya Pradesh), who won an award for his paper on water issues and sustainable cities at the World Youth Forum 2013 in Italy; student innovator, Jyoti Ranjan Sahoo (Odisha), who was honored by the Hon'ble President of India for best applied research and innovation aimed at improving the life of persons with disabilities at Vigyan Bhavan on the occasion of the International Day for Disabled People.

Workshop on Innovations in Government with Performance Management Division (PMD), Cabinet Secretariat held at IIFT, New Delhi

To make use of Result Framework Document (RFD) as an instrument for promoting out-of-the-box thinking in the Government, the High Power Committee (HPC) on Government Performance, chaired by the Cabinet Secretary, included a mandatory success indicator relating to Innovation in all RFDs for 2012-2013. Under this success indicator, all departments preparing RFD are required to prepare and implement an Action Plan for enabling innovation in their respective departments.

To assist departments in the design of an Action Plan for Innovation, a workshop on Preparation of Action Plans for Innovation in Government was organized on April 5, 2013, at IIFT, New Delhi where Departmental Secretaries along with some of their senior colleagues participated. NIF team assisted the PMD to conduct brain storming sessions on developing Action Plan for innovation for various departments.

Workshop on 'Social Innovations' at Pune

NIF supported the Indian Institute of Management, Ahmedabad in organizing the First National Seminar on Social Innovations for Inclusive Development at Pune on November 17, 2013. Others who joined this effort included Pune International Center (PIC), Pune, International Longevity Centre, India (ILC, India), SRISTI and Honey Bee Network. The objective was to create a platform for social entrepreneurs across the country and create a database of social innovators who could share their knowledge on issues and concerns related to the civil society, technology and academia.

There are a lot of social need gaps in our society, which need to be filled urgently and in a collaborative and durable manner. The workshop discussed various ventures expanding social imagination in market place, civil society, state institutions and even corporations. The workshop was graced by Dr. R. A. Mashelkar and Dr. Vijay Kelkar, both of whom have long term interest in, and involvement with Social Innovation Policy and Institutional Design. The distinguished participants from public, private and social sectors discussed the societal, policy and institutional innovations and the way ahead.



Moving Further Ahead

Innovation Initiatives at the President Office

The Hon'ble President of India, Shri Pranab Mukherjee has decided to bestow special attention to the cause of inclusive innovations at different levels in the society. In the meeting with the Governors of various States, the Vice Chancellors of Central Universities and Directors of NITs in February 2013, he announced that he would like to meet grassroots innovators during his visits to the Central Universities and NITs. He will also inaugurate the chapters of National Innovation Clubs to motivate the students to search, spread and celebrate innovations, and sense the unmet needs of society. Given the need for linking innovations with pedagogy, he will also meet inspired teachers. NIF helped in preparing the background notes for the purpose.

Starting with the inauguration of National Innovation Club in Babasaheb Bhimrao Ambedkar University, Lucknow on May 10, 2013, the Hon'ble President, Shri Pranab Mukherjee exhorted the academia to set up such clubs in every university and college. The purpose of these clubs is to provide hand holding support to local innovators by linking formal and informal sector.

An innovation exhibition was also organised at the sideline of President's visit in every Central University except in Madhya Pradesh where it could not be organised due to paucity of time. The President during his visits inaugurated the National Innovation Clubs and met the club members. Later he visited the innovation exhibition, met local innovators and appreciated their work, which provided great motivation and inspiration to the innovators. On this occasion, a small booklet detailing the innovations was also prepared in collaboration with the Central University. Some innovators profiled in the booklet were from formal sector as well and were identified by the Universities. For the Hon'ble President's visit, NIF facilitated setting up of innovation exhibitions and National Innovation Clubs in Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, May 10,

2013, Assam University, Silchar, Assam, May 14, 2013, Nagaland University, Lumami, Nagaland, May 15, 2013, Tripura University, West Tripura, Tripura, June 20, 2013 and Central University of Rajasthan, Ajmer, July 9, 2013.

Innovative "In-residence" programme for innovation scholars launched by Hon'ble President of India

On December 11, 2013, the Hon'ble President launched an 'In-residence' Programme for writers, artists and innovation scholars at Rashtrapati Bhavan, which will provide further impetus to grassroots innovation. The Hon'ble President will interact with them to inspire them during their stay at Rashtrapati Bhavan. These fellows can also be challenged to address unmet social needs scouted through National Innovation Clubs. NIF is expected to provide backstopping support for these activities.

In March 2014, NIF's national award winners and grassroots innovators, Gurmail Singh Dhonsi (Ganganagar, Rajasthan; innovator of the rapid compost making machine and tree pruner), Dharamveer Kamboj (Yamunanagar, Haryana; innovator of the multi-purpose processing machine) and Tenith Adithyaa (IGNITE Awardee from Virudunagar, Tamil Nadu; innovator of adjustable electricity extension board and banana leaf technology), were selected as Innovation Scholars under this scheme of Rashtrapati Bhavan. In addition, SRISTI Techpedia's Gandhian Young Technological Innovation Award winners Manisha Mohan who developed 'Society Harnessing Equipment (SHE)' and M.B. Avinash who developed 'Self-cleaning functional molecular material' were also selected. During this period, these innovators will interact with concerned ministries, research institutions, etc., for possible support for further research and development work and/or diffusion of their innovations.

Moving Further Ahead

Meeting with the Hon'ble Vice President of India, Shri M. Hamid Ansari

The Hon'ble Vice President was briefed about the activities of NIF by Prof. Anil Gupta, Executive Vice Chair and Dr. Vipin Kumar, Chief Innovation Officer on April 5, 2013 at New Delhi. It was explained how grassroots innovations could contribute to the inclusive development agenda of the country. The Hon'ble Vice President was also briefed about the meeting with the Hon'ble President on January 24, 2013, as a result of which, the ideas for promotion of innovations in the Central Universities by setting up National Innovation Clubs, networking of inspired teachers, encouraging cultural creativity and exhibition of grassroots innovations at the time of the Hon'ble President's visit to the Central University, were taken forward. The Hon'ble Vice President suggested using the platform of Rajya Sabha television for wider dissemination of grassroots innovations, which may also help NIF to source ideas and innovations of the grassroots innovators and students.

Institutional Policies

Official language policy: For implementing the Official Language Policy of the Government, NIF has taken quite a few initiatives in consonance with the policy. 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 SRISTI Innovations' Hindi publication, *Soojh Boojh aas paas ki* 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 supports the publication of newsletters in six regional newsletters viz. Oriya, Telugu, Tamil, Kannada, Malayalam and Gujarati for wider dissemination.

Administrative Matters

Recruitment of staff:

- Interviews for the position of Innovation Officer/Scientist C were conducted on July 16, 2013. The interview committee recommended for selection Shri Hardev Choudhary, who accepted the offer and joined NIF.
- Interviews for the positions of Fellows, RAs, Managers etc., were conducted on July 18-19, 2013 and 29 candidates were selected.
- The meeting of Departmental Promotion Committee (DPC) for review of ACRs of Dr. Ravikumar, RK, Senior Innovation Officer/Scientist D and Shri Rakesh Maheshwari, Innovation Officer/Scientist C, was held on November 20, 2013. The committee recommended the confirmation of both. Subsequent to the Chairperson's approval both Dr. Ravikumar RK and Shri Rakesh Maheshwari were confirmed w.e.f. their date of joining as Senior Innovation Officer/Scientist D and Innovation Officer/Scientist C respectively.
- The meeting of Departmental Promotion Committee (DPC) for review of ACR of Dr. Vipin Kumar, Scientist G/Director was held on March 29, 2014. The committee recommended the confirmation Dr. Vipin Kumar. Subsequent to the Chairperson's approval, Dr. Vipin Kumar was confirmed w.e.f. his date of joining as Scientist G/Director of NIF.

Government Related Activities

NIF submitted the annual review statement for FY 2012-13 in Hindi and English, Half-yearly performance report for the FY 2013-14, inputs for DST's Annual report 2013-14, Budget estimate for FY 2014-15, Annual Plan for FY 2014-15, and the data for Autonomous Institutions compendium 2008-13 to the Department of Science and Technology.

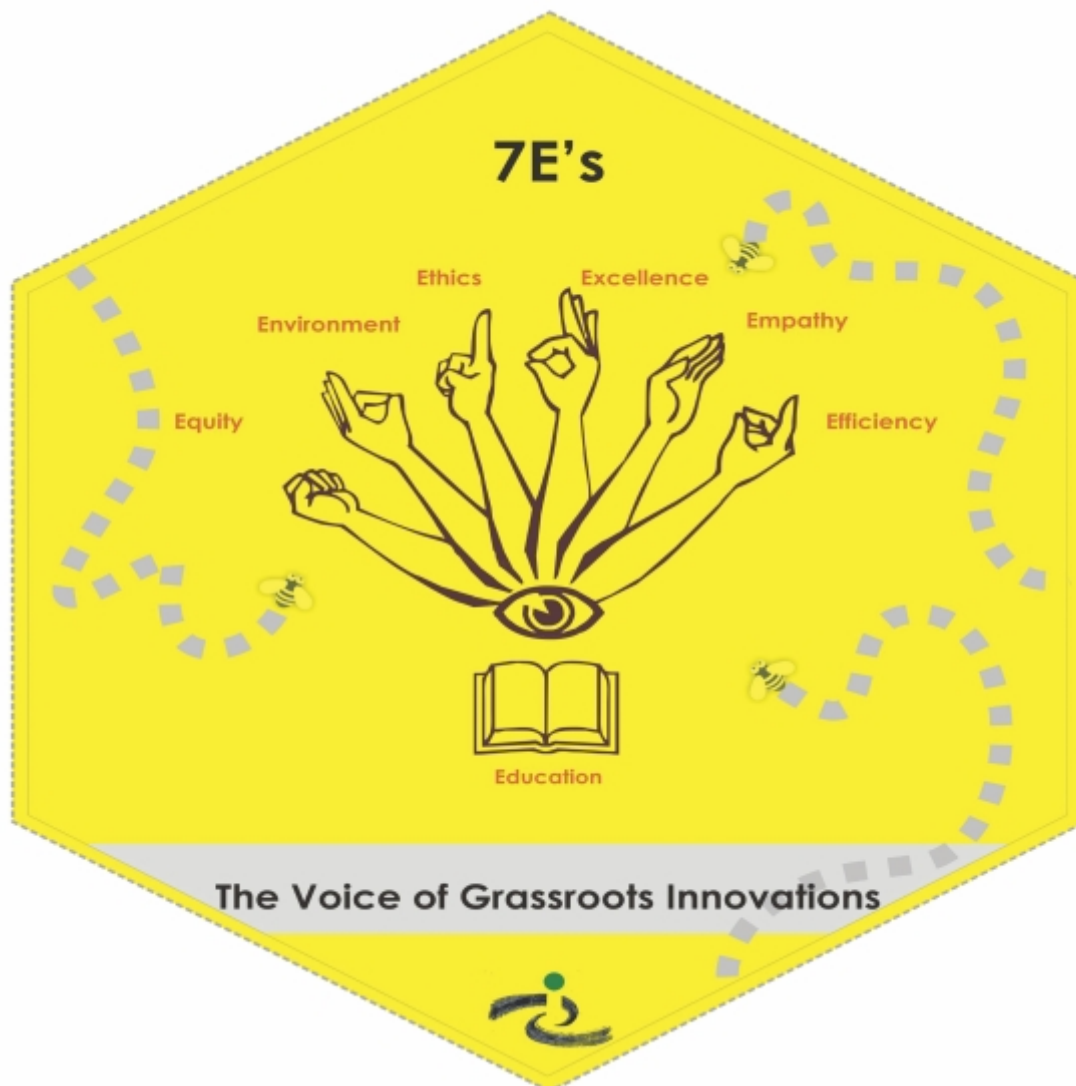
Moving Further Ahead

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 inspired by the philosophy of Honey Bee Network who wish to participate in any step of the value chain around grassroots innovation and outstanding traditional knowledge. Interested colleagues can write to NIF at

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 shodhyatras every summer and winter.

IN PURSUIT OF SUSTAINABILITY



National Innovation Foundation - India

ANNUAL ACCOUNTS 2013-2014

Independent Auditor's Report

To the Governing Body of 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 31st March, 2014, 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 31st March, 2014;
- (b) in the case of the Statement of Income & Expenditure Account, of the Excess of Expenditure over Income for the year ended on 31st March, 2014.

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.



Auditor's Report

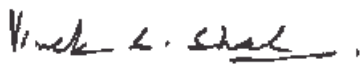
- (b) The Income and Expenses are properly and correctly shown in the accounts.
- (c) The cash balance and vouchers in the custody of the authorised person on the date of audit were in agreement with the accounts.
- (d) Books, Deed, Accounts vouchers and other documents and records required by us were 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. 50,47,284/- [includes Rs.50,33,284/- 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 RAMANLAL G. SHAH & CO.

Chartered Accountants

Firm Registration No.: 108517W



Vivek S. Shah

Partner

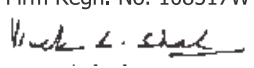


Membership No.: 112269

Place: Ahmedabad


Date: 25 SEP 2014



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA Regn.No.F/7412/Ahmedabad BALANCE SHEET AS AT MARCH 31, 2014				
	Schedule No.	INR-Rupees As at March 31, 2014		INR Rupees As at March 31,2013
CORPUS/ CAPITAL FUND & LIABILITIES				
Corpus/Capital Fund	1		308,40,672	263,29,127
Earmarked Funds	2		934,47,299	872,58,444
Current Liabilities and Provisions	3		160,44,108	136,49,205
Total			1403,32,079	1272,36,776
ASSETS				
Fixed Assets				
Gross Block	4	299,86,248		274,76,849
Less : Depreciation		175,68,618		163,50,133
Net Block			124,17,630	111,26,716
Investments			-	-
Current Assets, Loans, Advances and Other Assets	5		1279,14,449	1161,10,060
Total			1403,32,079	1272,36,776
Significant Accounting Policies and Notes on Accounts	11			
As per our report of even date For Ramanlal G. Shah & Co. Chartered Accountants Firm Regn. No. 108517W  Partner Vivek S. Shah Membership No. 112269 Place : Ahmedabad Date : 25 SEP 2014 		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  TRUSTEE Prof. ANIL K. GUPTA EXECUTIVE VICE - CHAIRPERSON NATIONAL INNOVATION FOUNDATION AHMEDABAD		

Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA			
Regn.No.F/7412/Ahmedabad			
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON MARCH 31, 2014			
	Schedule No.	INR-Rupees For the year ended on March 31, 2014	INR-Rupees For the year ended on March 31, 2013
INCOME			
<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)		949,00,000 (45,29,234)	1012,00,000 (29,30,678)
Interest earned	6	-	-
Other Income	7	-	-
Total		903,70,766	982,69,322
EXPENDITURE			
Establishment Expenses	8	165,88,094	130,15,693
Recurring Expenses	9	628,89,700	753,75,850
Other Administrative Expenses	10	76,90,645	65,99,998
Depreciation		32,20,016	31,97,883
Total		903,88,455	981,89,424
Excess of Expenditure over Income transferred to Balance Sheet		(17,689)	79,898
Significant Accounting Policies and Notes on Accounts	11		
<p>As per our report of even date For Ramanlal G. Shah & Co. Chartered Accountants Firm Regn. No. 108517W</p> <p><i>Vivek S. Shah</i> Partner Vivek S. Shah Membership No. 112269 Place : Ahmedabad Date : 25 SEP 2014</p> 		<p>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</p> <p><i>Anil K. Gupta</i> TRUSTEE</p> <p>Prof. ANIL K. GUPTA EXECUTIVE VICE - CHAIRPERSON NATIONAL INNOVATION FOUNDATION AHMEDABAD</p>	

Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA			
Regn.No.F/7412/Ahmedabad			
SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2014			
		INR-Rupees As at March 31, 2014	INR-Rupees As at March 31, 2013
Schedule : 1 - Corpus/Capital Fund :			
1 Corpus Fund			
Balance as per last Balance Sheet	-		-
Add: During the year	-		-
		-	-
2 Capital Fund			
Balance as per last Balance Sheet		4,33,294	4,33,294
3 GOI DST Grant for Fixed assets			
Balance as per last Balance Sheet	150,45,354		121,14,676
Add: (Grant received on account of Non-recurring items)	45,29,234		29,30,678
		195,74,588	150,45,354
4 Balance in Income and Expenditure Account			
Balance as per last Balance Sheet	108,50,479		107,70,581
Add /(Less): Excess /(Deficit) transferred from Income and Expenditure Account	(17,689)		79,898
		108,32,790	108,50,479
Total		308,40,672	263,29,127



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA Regn.No.F/7412/Ahmedabad		
SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2014		
	INR-Rupees As at March 31, 2014	INR-Rupees As at March 31, 2013
Schedule : 2 - Earmarked Funds :		
Earmarked Funds		
1 CAPART Exhibition		
a Balance as per last Balance Sheet	(1,42,071)	(1,05,697)
b Grant received	-	-
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	1,42,071	36,374
Administrative/ Institutional charges	-	-
Salaries & Wages	-	-
Travel expenses	-	-
Total of Expenditure	1,42,071	36,374
Recoverable from CAPART- [a+b+c]		-
		(1,42,071)
2 DST & KAPL Project		
a Balance as per last Balance Sheet	(76,857)	(5,98,208)
b Grant received	-	-
c Interest on Grant	-	-
d <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	-	(5,21,351)
ii. Revenue Expenditure		
Consumable & Materials	76,857	-
Information & Documentation	-	-
Overhead	-	-
Salaries & Wages	-	-
Travel expenses	-	-
Total of Expenditure	76,857	(5,21,351)
Net Balance at the year end [a+b+c+d]		-
		(76,857)
3 DST Seeds Project		
a Balance as per last Balance Sheet	(89,200)	2,01,439
b Grant received	-	-
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	-	-
ii. Revenue Expenditure		
Consumable & Materials	-	11,460
Salaries & Wages	-	2,37,226
Overhead	-	-
Travel expenses	-	41,953
Total of Expenditure	-	2,90,639
Net Balance at the year end [a+b-c]		(89,200)
		(89,200)

Continue to next page...



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA			
Regn.No.F/7412/Ahmedabad			
SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2014			
	INR-Rupees As at March 31, 2014		INR-Rupees As at March 31,2013
Continue from previous page...			
4 DST Project- Vet			
a Balance as per last Balance Sheet	(1,09,268)		3,25,149
b Grant received	-		-
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>			
i. Capital Expenditure	-		-
ii. Revenue Expenditure			
Consumable & Materials	-		-
Contingencies	-		-
Salaries & Wages	-		4,22,968
Overhead	-		-
Travel expenses	-		11,449
Total of Expenditure	-		4,34,417
Net Balance at the year end [a+b-c]		(1,09,268)	(1,09,268)
5 NMPB(Ayush) Project			
a Balance as per last Balance Sheet	(17,76,932)		10,27,102
b Grant received	23,50,000		-
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>			
i. Capital Expenditure			
Fixed assets	-		-
Others	-		-
ii. Revenue Expenditure			
Consumables	-		2,97,400
Contingency	3,88,869		22,025
Manpower	26,000		22,37,398
Overhead	1,50,000		-
Travel	15,283		2,47,211
Workshop	-		-
Total of Expenditure	5,80,152		28,04,034
Net Balance at the year end [a+b-c]		(7,084)	(17,76,932)
6 DST Project- Techpedia			
a Balance as per last Balance Sheet	-		-
b Grant received	30,61,614		-
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>			
i. Capital Expenditure			
Fixed assets	-		-
Others	-		-
ii. Revenue Expenditure			
Communication & Contingency	-		-
Manpower	-		-
Portal Management	-		-
Travel	-		-
Workshop	-		-
Total of Expenditure	-		-
Net Balance at the year end [a+b-c]		30,61,614	-
		Continue to next page...	



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA Regn.No.F/7412/Ahmedabad		
SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2014		
	INR-Rupees As at March 31, 2014	INR-Rupees As at March 31, 2013
Continue from previous page...		
7 ICMR- Herbarium and Plant Repository Project		
a Balance as per last Balance Sheet	50,87,393	52,00,000
b Grant received	-	3,00,000
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	44,54,305	18,900
Others	-	-
ii. Revenue Expenditure		
Consultancy Charges	-	3,00,000
Contingencies	7,75,503	93,707
Overhead	-	-
Travel	5,58,005	-
Total of Expenditure	57,87,813	4,12,607
Net Balance at the year end [a-c]		(7,00,420) 50,87,393
8 ICMR- Sristi Laboratory Project		
a Balance as per last Balance Sheet	46,52,545	-
b Grant received	-	46,52,545
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Capital Expenditure		
Fixed assets	46,51,604	-
Others	-	-
ii. Revenue Expenditure		
Overhead	-	-
Total of Expenditure	46,51,604	-
Net Balance at the year end [a-c]		941 46,52,545
8 Rajat Jayanti Vigyan Sancharak Fellowship		
a Balance as per last Balance Sheet	-	51,789
b Grant received	-	2,12,000
c <u>Less: Expenditure/Utilisation towards objectives of fund</u>		
i. Revenue Expenditure	93,607	1,08,722
Total of Expenditure	93,607	1,08,722
Net Balance at the year end [a+b-c]	(93,607)	1,55,067
Less: Return the Balance of fund to DST	-	1,55,067
Balance		(93,607) -
9 Micro Venture Innovation Fund- A/c SIDBI		
a Balance as per last Balance Sheet	732,68,120	676,30,016
b Income during the year from advances and investments made on account of funds	60,88,742	56,38,104
Net Balance at the year end [a+b]		793,56,862 732,68,120
10 Innovation Fund		
Balance as per last Balance Sheet	64,44,714	26,67,477
Add: Amount received during the year	4,08,000	
Add: Amount transferred during the year [Refer Note:1(g) Schedule -11]	51,74,747	37,82,487
Less: Amount incurred during the year	-	5,250
		120,27,461 64,44,714
Total		934,47,299 872,58,444



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA			
Regn.No.F/7412/Ahmedabad			
SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2014			
		INR-Rupees As at March 31, 2014	INR-Rupees As at March 31, 2013
Schedule : 3 - Current Liabilities and Provisions :			
Advances received for			
- Innovator fellowship fund		6,700	6,700
Sundry Creditors			
Others		30,43,187	7,31,703
Bank Book Overdraft			-
Union Bank of India, Premchandnagar - SB A/c. No.724		128,71,295	128,25,958
Other Liabilities			
Employee's NPS Deduction	61,463		42,422
NPS Payable Account	61,463		42,422
		1,22,926	84,844
Total		160,44,108	136,49,205



Annual Accounts

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

F.Y.2013-14
Schedule - 4

SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2014

Particulars	GROSS BLOCK				DEPRECIATION				Net Block As on 31-03-14 Rs.
	Balance as on 01-04-13 Rs.	Additions during the year Rs.	Deductions during the year Rs.	Gross Block as on 31-03-14 Rs.	Depreciation up to 31-03-13 Rs.	Deductions during the year Rs.	Depreciation for 2013-14 Rs.	Total Depreciation up to 2013-14 Rs.	
Computers & Ancillary Assets									
Computers	85,88,302	8,33,370	(16,63,875)	77,57,797	77,27,205	(16,63,342)	8,83,115	69,46,978	8,10,819
Networking equipment	5,47,703	5,93,004	-	11,40,707	5,21,103	-	3,71,762	8,92,865	2,47,842
Scanner	4,13,740	-	(49,750)	3,63,990	1,22,690	(46,147)	43,118	1,19,661	2,44,329
Software	30,22,256	3,05,704	-	33,27,960	25,48,584	-	4,64,504	30,13,088	3,14,872
Furniture & Fixtures and Dead Stock									
Furniture & Fixtures	20,44,432	74,762	-	21,19,194	7,98,782	-	1,29,922	9,28,704	11,90,490
Electrical Installations	69,610	-	-	69,610	34,155	-	3,546	37,701	31,909
Office Equipments									
Air Cooler	2,44,604	-	(23,800)	2,20,804	1,02,004	(21,608)	21,061	1,01,457	1,19,347
Balloon	35,438	-	-	35,438	20,894	-	2,182	23,076	12,362
Camera	14,31,381	75,500	(1,80,710)	13,26,171	6,48,255	(1,72,900)	1,21,959	5,97,314	7,28,857
EPABX System	1,27,788	34,461	-	1,62,249	75,433	-	10,438	85,871	76,378
Equipment	22,60,737	24,35,606	(27,000)	46,69,343	6,53,256	(25,948)	3,03,771	9,31,079	37,38,264
Fab Lab Equipment	16,14,676	-	-	16,14,676	6,97,433	-	1,37,586	8,35,019	7,79,657
Fax Machine	36,907	-	-	36,907	26,836	-	1,511	28,347	8,560
Fire Extinguisher	13,405	5,100	-	18,505	10,762	-	779	11,541	6,964
Photo Copying Machine	5,05,202	-	(72,800)	4,32,402	4,04,503	(69,824)	14,659	3,49,338	83,064
Public Address System	60,111	-	-	60,111	35,439	-	3,701	39,140	20,971
Refrigerator	39,010	-	-	39,010	19,726	-	2,893	22,619	16,391
Sony LCD	91,000	-	-	91,000	53,651	-	5,602	59,253	31,747
Tape recorder	41,727	-	(1,900)	39,827	28,065	(1,762)	2,028	28,331	11,496
Telephone/mobile Instrument	5,95,144	1,48,814	-	7,43,958	2,43,356	-	75,091	3,18,447	4,25,511
Vehicles									
Activa Honda	44168	-	-	44,168	28760	-	2311	31,071	13,097
Bajaj Pulser	68289	-	-	68,289	44465	-	3574	48,039	20,250
Honda city	10,37,399	-	-	10,37,399	3,44,092	-	103996	4,48,088	5,89,311
Tata safari	13,11,519	-	-	13,11,519	4,35,014	-	131476	5,66,490	7,45,029
Tata Indica	5,45,341	-	-	5,45,341	1,51,332	-	59101	2,10,433	3,34,908
Mobile Exhibition Van	26,86,960	22,913	-	27,09,873	5,74,338	-	320330	8,94,668	18,15,205
Total A	274,76,849	45,29,234	(20,19,835)	299,86,248	163,50,133	(20,01,531)	32,20,016	175,68,618	124,17,630



Annual Accounts

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

SCHEDULE FORMING PART OF BALANCE SHEET AS AT MARCH 31, 2014

	INR-Rupees As at March 31, 2014	INR-Rupees As at March 31,2013
Schedule : 5 - Current Assets, Loans, Advances and Other Assets :		
1 Cash and Bank Balances		
Cash Balance on hand	-	-
Balance with Banks		
In Saving Accounts		
- Kotak Mahindra, Vastrapur - SB A/c. No.762	52,047	18,90,925
- Union Bank of India, Premchandnagar - SB A/c. No.724	-	-
		18,90,925
In Current Accounts		
- Axis Bank, Vastrapur - A/c. No.1548	2,01,500	8,83,660
- Axis Bank, Vastrapur - A/c. No. 8099 - MVIF	20,45,084	36,16,361
- SBI, IIM - A/c. No.30379920229	-	2,89,821
		47,89,842
In Fixed Deposit Accounts		
- From NIF funds	472,17,301	384,51,225
- From MVIF funds	639,06,302	557,98,862
		942,50,087
Total		1134,22,234
		1009,30,854
2 Loans, Advances and Other Assets		
Advance recoverable in cash or in kind or for value to be received	8,55,812	10,46,283
Advances to Innovators from MVIF Funds [SIDBI]	125,61,697	131,97,972
Advance payment of Income Tax	10,74,706	9,34,951
Bank receivable	-	-
Total	144,92,215	151,79,206
Total	1279,14,449	1161,10,060



Annual Accounts

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

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON MARCH 31, 2014

	INR-Rupees For the year ended on March 31, 2014	INR-Rupees For the year ended on March 31, 2013
Schedule : 6 - Interest earned :		
Interest earned on 8% Govt. of India saving bond	-	-
Interest on fixed deposits with banks	48,78,741	35,04,611
Interest on Saving Bank account	94,176	2,76,746
Interest earned on others	22,100	-
Total Interest Earned	49,95,017	37,81,357
Less: Transfer to Innovation Fund	(49,95,017)	(37,81,357)
Total	-	-
Schedule : 7 - Other Income :		
Administrative overhead recovery from Earmarked Projects	1,50,000	-
Miscellaneous Income	-	-
Profit on sale of Fixed Assets	29,730	-
	1,79,730	-
Less: Transfer to Innovation Fund	(1,79,730)	-
Total	-	-



Annual Accounts

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

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON MARCH 31, 2014

		INR-Rupees For the year ended on March 31, 2014	INR-Rupees For the year ended on March 31, 2013
Schedule : 8 - Establishment Expenses :			
Basic Pay		32,28,176	27,45,021
Consultancy Charges		5,88,355	12,57,758
Contractual Payment		20,77,268	28,99,081
Dearness Allowance		29,74,375	19,37,345
Employer's NPS Contribution		6,20,248	4,68,251
Fellowship		58,88,550	27,38,963
House Rent Allowance		6,45,622	5,49,004
Transport Allowance		5,65,500	4,20,270
Total		165,88,094	130,15,693
Schedule : 9 - Recurring Expenses :			
1 Business Development			
Advertisement for Licensing	-		1,60,003
Benchmarking and Market Research	24,19,819		2,74,525
Demonstrations (BD)	6,11,819		9,45,774
Online Catalogues	67,972		54,699
Packaging, Labeling and Branding	14,663		-
Student Involvement for Business Plans	6,18,814		5,20,005
Travel (BD)	9,32,170		12,36,686
		46,65,257	31,91,692
2 Dissemination & Social Diffusion			
Innovation Exhibition	49,37,544		-
Demonstrations (Dnsd)	10,72,667		6,60,578
Diffusion of Practices Through Farmers /media /KVK	5,82,781		30,61,848
Exhibitions & Innovation exhibition	14,86,923		30,13,039
Innovation Diffusion Centre	6,77,442		9,76,359
Printing & Publication (Dasd)	1,68,167		26,22,898
Travel (Dissemination)	5,52,086		6,66,242
Workshop/Meetings (Dissemination)	18,00,000		-
		112,77,610	110,00,964
3 IPR and Law			
Experts / Mentors Committee Meeting (IPR)	-		1,716
Filing National Patent Applications	18,97,512		23,37,869
Filing Trade Mark and Geographical Applications	45,700		-
PCT Applications	92,700		10,72,985
Travel (IPR)	1,02,097		62,618
		21,38,009	34,75,188

Continue to next page...



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA		
Regn.No.F/7412/Ahmedabad		
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT		
FOR THE YEAR ENDED ON MARCH 31, 2014		
	INR-Rupees For the year ended on March 31, 2014	INR-Rupees For the year ended on March 31, 2013
Continue from previous page...		
4 IT & Database		
Computer Maintenance & Upgradation	3,08,870	1,11,708
Database & Software Dev , Proof Reading	13,65,383	12,22,621
Internet	4,37,921	3,56,925
Online Applications(Incubation ,MIS, Travnk Status)	8,000	90,220
Travel (IT)	18,319	9,465
Website	1,61,091	86,843
	22,99,584	18,77,782
5 Scouting & Documentation		
Advertisement- Regional and National	25,72,208	45,36,652
Collaborators	44,22,650	35,00,583
Experts / Mentors Meetings (S&D)	37,413	60,130
Ignite (S&D)	13,39,054	12,30,050
Sample / Prototype Collection & Identification	10,47,873	6,97,060
Travel (S&D)	12,97,750	18,95,672
Verification / Detailed Documentation	35,42,608	22,04,319
Workshops and Publications	50,73,472	22,96,349
	193,33,028	164,20,815
6 Value Addition and Research & Development		
Experts /mentors Meetings (Vard)	6,84,969	16,16,809
Prior Art Search, Validation of Innovations	140,24,704	91,44,130
Testing of Prototypes / Products	10,66,500	41,23,070
Travel (VARD)	18,36,141	24,08,062
Value Addition and Product Development	57,22,648	78,84,522
	233,34,962	251,76,593
7 Technology acquired under Technology Acquisition Fund	-	8,75,894
8 Award Function Expenses		
Accomodation	-	8,84,153
Catering	-	4,95,979
Dissemination	-	1,08,763
Exhibition and Other Exps	-	24,81,684
Photography	-	19,300
Prizes	(1,58,750)	78,45,000
Stationery and Printing	-	21,070
Travel and Transportation	-	11,93,405
Trophy	-	3,03,458
	(1,58,750)	133,52,812
9 Loss on Sale of Fixed Assets	-	4,110
Total	628,89,700	753,75,850



Annual Accounts

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

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON MARCH 31, 2014

	INR-Rupees For the year ended on March 31, 2014		INR-Rupees For the year ended on March 31, 2013
Schedule : 10 - Other Administrative Expenses :			
Auditors Remuneration		30,000	88,204
Statutory Audit Fees			
Internal and Concurrent Audit Fees	1,96,630		
Other certification fees	19,102	2,15,732	-
Bank Charges		4,105	5,268
Building repairing charges		12,89,197	-
Conveyance Expenses		48,832	25,106
Electricity and Power		2,20,252	2,60,838
G.C. Meeting Expenses		2,84,190	2,30,489
Insurance Expenses		1,14,518	1,17,118
Office Expenses		5,43,267	3,54,371
Postage Expenses		2,26,147	3,23,697
Printing and Stationary		9,91,591	6,52,261
Recruitment Expenses		8,27,403	11,46,074
Rent, Rates and Taxes		18,84,959	26,34,376
Repairs and Maintenance		1,54,066	1,52,457
Security Expenses		5,22,769	2,69,525
Telephone and Communication Charges		64,442	59,737
Travel Expenses		5,999	1,23,209
Vehicles Running and Maintenance		2,63,176	1,57,268
Total		76,90,645	65,99,998



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA

F.Y. 2013-2014

ADVANCES A/c. MVIF PROJECTS		
	Rs.	Rs.
North East Region		
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
North Region		
Fire Cracker Device	7000	
Amount lying with coordinating agency	15480	
Herbal Growth	162407	
HNP-Performance Enhancer for Petrol Engine- Harinar	141767	
Modified Solar Cooker	5047	
Multi Crop Thresher	884931	
Multi Seed Drill	385268	
Safety Valve for Stove	16000	
Trench Digger Machine	1093480	2711380
Western Region		
Bicycle Hoe	15000	
Healthcare Chair	37390	
Mitticool Clay	1991	
Paresh Panchal- Incense Stick Macking Machine	300000	
Stencil Cutting Device- Nazim Shaikh	170100	
Sugarcane Rotator	47486	
Amount lying with coordinating agency	-57181	514786
BALANCE C/F		3276316



Annual Accounts

NATIONAL INNOVATION FOUNDATION - INDIA

F.Y. 2013-2014



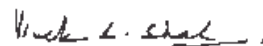
ADVANCES A/c. MVIF PROJECTS		
	Rs.	Rs.
BALANCE B/F		3276316
Southern Region		
SEVA (Multipurpose Cooking Vessel-Abdul Razak)	42150	42150
Projects under direct supervision of NIF		
Bamboo Agarbati Stick Making Machine	300000	
Bhagwan Singh Dangi- Reaper Winrower	300000	
B.Mohanlal- Marine Reversible Reduction Gearbox	730000	
Bommagani Mallesh- Remote for electronic gadgets	150000	
Clear Banana Alkali- Basanta Sharma	96050	
C.V.Raju- Anything by HAnd	455040	
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 Namo- 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	60000	
Prem Singh Saini- Phone Operated Switch	200000	
Rajkumar Rathore- Richa 2000	300000	
Rama Shankar Sharma- Modified Hand Pump	37000	
Shailendra Rakhecha- Animated T- Shirt	185000	
Sugarcane Bud Chipper Device-Roshanlal Vishwakarma	900000	
Tulsi Growth Promoter	200000	
Umesh Chandra Sharma- Interlocking Bricks	400000	
Yellow Fourier Technologies P.Ltd.-Indian Tea Making	210000	
Augustine Thomas- Electro Tyre Rethreading machine	100000	
GIAN- Cell (J&K)	70000	9243231
TOTAL		12561697



Annual Accounts

Schedule IXC (Vide Rule 32)

Statement of Income liable to contribution for the Financial Year 01-04-2013 to 31-03-2014

Name of the Public Trust:		NATIONAL INNOVATION FOUNDATION - INDIA Bungalow No. 1, Satellite Centre, Satellite Complex, Premchandnagar Road, Jodhpur Tekra, Satellite, Ahmedabad - 380015.	
Regn.No.		F/7412/Ahmedabad	
		INR-Rupees	
Gross Annual Income			
Plan Grant from Department of Science and Technology [DST]		949,00,000	
Interest Income earned		110,83,759	
Total Gross Annual Income			1059,83,759
Details of Income not Chargeable to Contribution under Section 58 and Rule 32 :			
(i) Donation received during the year from other public trusts and Dharmadas			
(ii) Grants by Government and Local Authorities		949,00,000	
(iii) Interest on Sinking or Depreciation Fund			
(iv) Amount spent for the purpose of secular education		903,88,455	
(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			
Total Income not chargeable to contribution.			1059,83,759
Gross Annual Income Chargeable to Contribution			0
For National Innovation Foundation		As per our report of even date For Ramanlal G. Shah & Co. Chartered Accountants Firm Regn. No. 108517W	
 Prof. ANIL K. GUPTA EXECUTIVE VICE - CHAIRPERSON NATIONAL INNOVATION FOUNDATION AHMEDABAD		  Partner Vivek S. Shah Membership No. 112269	
Place : Ahmedabad Date : 25 Sep. 2014			

25 SEP 2014

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 year 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. Further grant is yet to be released in respect of project which shows debit balance.

g) Innovation Funds

Interest earned, administrative fund of projects and other income 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) Foreign Currency Transactions

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

if any, in respect thereto will be carried out in the year in which they are settled.

d) Taxation

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

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

Schedule – 1 to 11 are annexed to and form an integral part of the Balance Sheet as at March 31, 2014 and the Income and Expenditure Account for the year ended on that date.

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.

c) The balances of loans and advances to innovators are subject to confirmation / reconciliation and the necessary adjustments,

As per our report of even date attached

For Ramanlal G. Shah & Co.

Chartered Accountants

Firm Regn. No. 108517W



Vivek S. Shah

Partne

Membership No. 112269

Place : Ahmedabad.

Dated : **25 SEP 2014**




Trustee

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

Place : Ahmedabad.

Dated : 25 Sep. 2014

In Quest of

Creativity

Traditional Knowledge

Sustainability

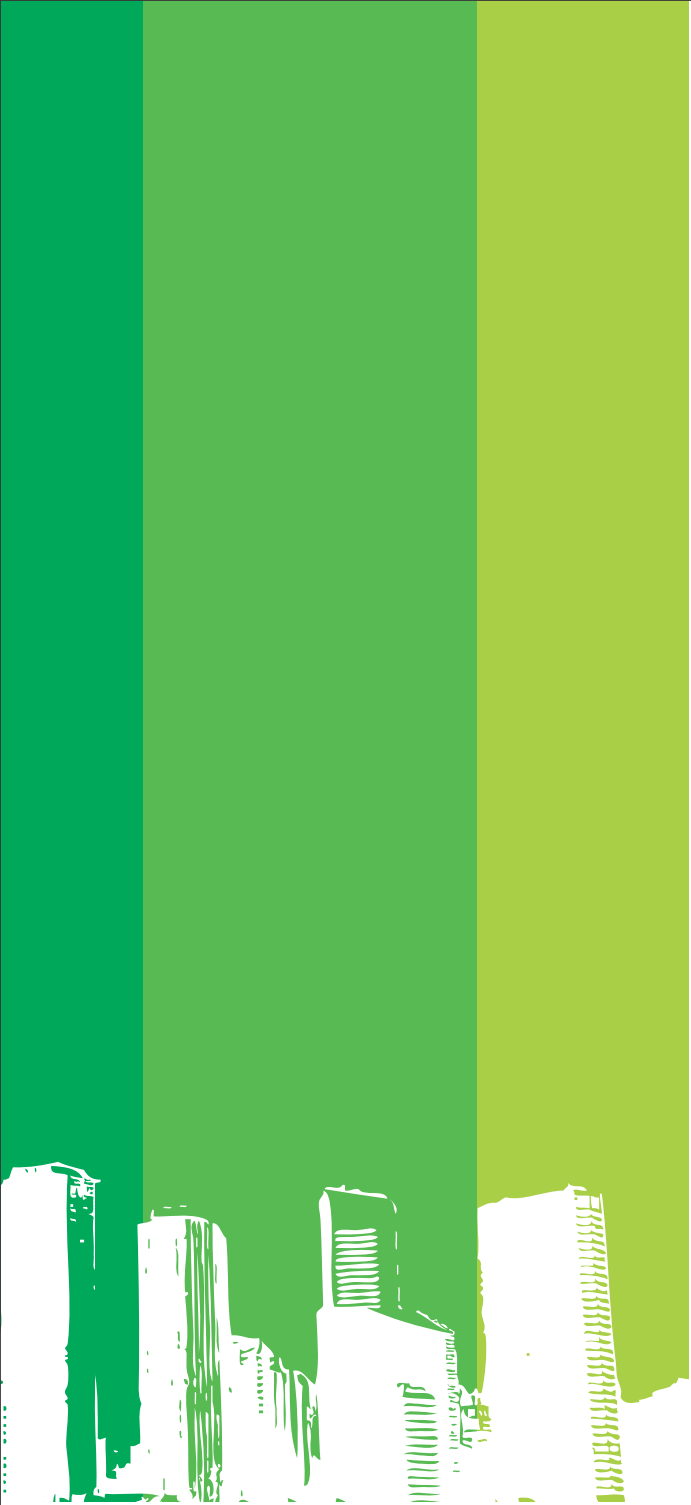
Grassroots Innovations

Wider Social Awareness









National Innovation Foundation - India

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