



Step by Step



National Innovation Foundation

Annual Report 2008-2009

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by
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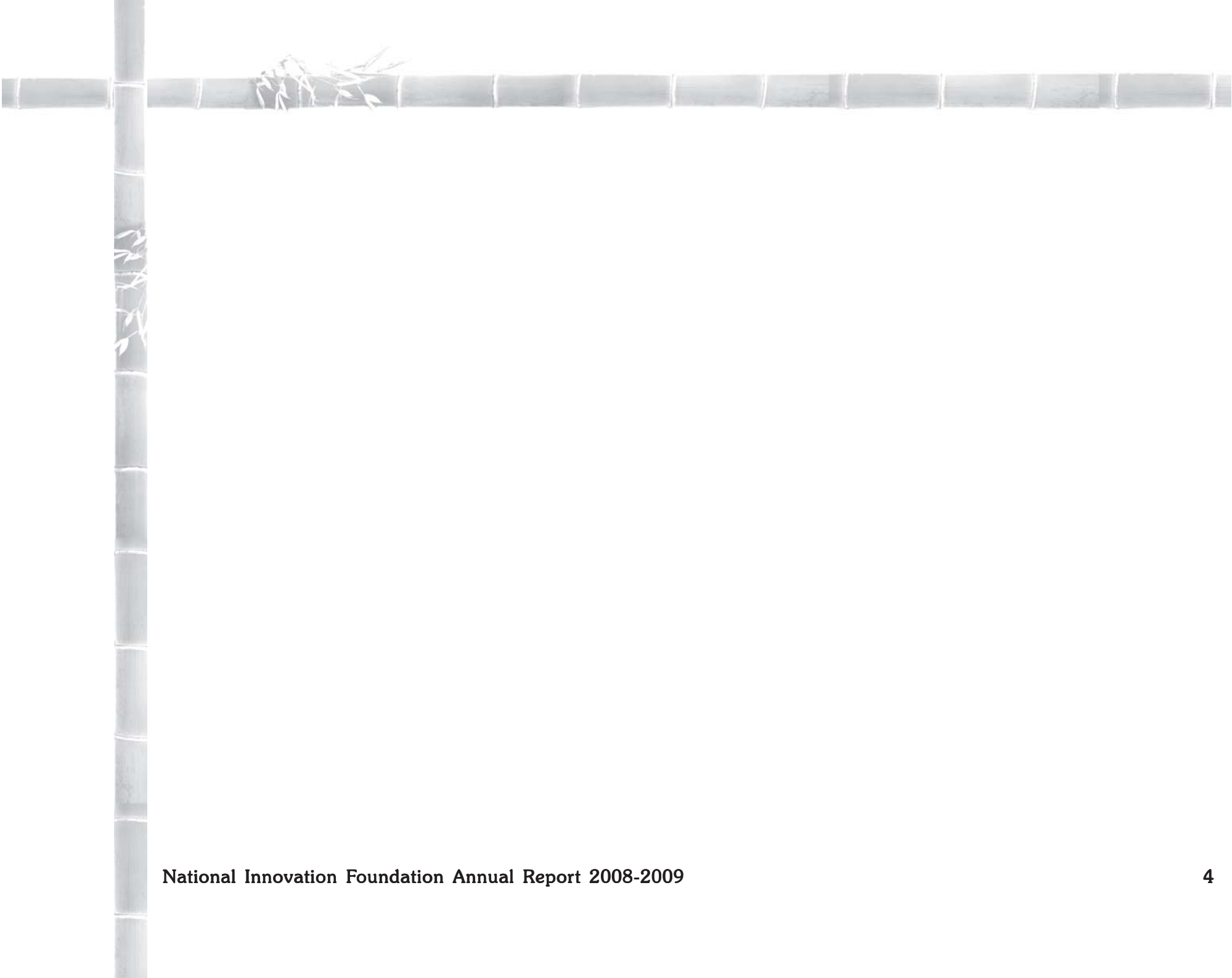
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National Innovation Foundation

Annual Report: 2008 - 2009



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The journey every year becomes harder for NIF. Increasing expectations and declining resources in real terms leave just one option. And that is stretching every one, all the time. Colleagues at NIF and many in the Honey Bee Network have stretched themselves to the limit. But that does not solve the problem. Majority of the creative people can draw no solace from the tension under which NIF works. They want to see the implementation of the promise of the planners and policy makers to make Indian development more inclusive. But fuller realization of that goal will have to wait for some more time. In the meanwhile, a lot of things have happened which make us hopeful, optimistic and energized about the shape of things to come. Innovators and traditional knowledge holders continue to repose faith in the Honey Bee Network philosophy. Creative children have come out with new ideas and innovations in ignite contests. Some of them have made even functional products. Once innovative culture gets ingrained at an early age, long-term societal transformation will not be too difficult.

Getting the grassroots innovations on the agenda of top level policy makers required innovative approaches. NIF made some major breakthrough in this direction through the imaginative help of the Chairman, 13th Finance Commission and member, Governing Council of NIF.

In part one we discuss the strategies of *reaching out* to different stakeholders. In part two, the efforts made to *Deepening existing Furrows* through expanding existing activities of the Foundation are described. In part three, the process of *outside- inside* is narrated, i.e. how various stakeholders have engaged with NIF through visits or contacts to expand the knowledge network. We also share how the missions of NIF are being shared widely.

Part One: Reaching Out

In order to create wider awareness about the potential of grassroots innovations in bringing about inclusive development, Dr. Vijay Kelkar, Chairman, 13th Finance Commission and member of NIF governing council, suggested that NIF brings out a series of coffee table books on innovations and traditional knowledge practices from, and for different states.

Each book consists of three parts: (1) Innovations from the respective states (2) Traditional herbal knowledge of plants available in the respective states and (3) Innovations relevant for the respective state from other parts of the country. Dr R.A. Mashelkar has, in his preface, invited the state government and its various organs to actively support NIF's quest to uncover creative communities and individuals in the rural and urban areas of the state.

During 2008-09 eighteen state innovation books have been compiled for Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Maharashtra, Manipur, Nagaland, Orissa, Punjab, Sikkim, Tripura, Uttarakhand and West Bengal. These books are available at the web site of NIF and also that of the 13th Finance Commission.

NIF has received encouraging response from various state governments for this initiative. Letters have been received from the Hon'ble Governors of Manipur, and Tripura, Chief Ministers of Himachal Pradesh, Kerala, Orissa and West Bengal and Secretary (Agriculture) of Haryana. It is hoped that each state in due course will trigger processes for igniting the creative minds of common people.

Documenting the creativity of school children: Ignite 08

NIF and Honey Bee Network launched a national competition, IGNITE 08, for school and college student's innovations/Ideas on 14th July 2008 at IIM-Ahmedabad and 23rd July 2008 at IIT Madras in the presence of Prof. Ashok Junjhunwala, the Governing Council member of NIF. With the help of Central Board of Secondary Education (CBSE), a network of over 8,000 schools across the country has been involved. Good



response has been received from the students across the country. Total 981 innovations/ ideas were received from 762 students from 62 districts of 19 states.

The entries received in the competition were screened by experts and the results were announced on 15th October 2008, the birthday of Dr. A. P. J. Abdul Kalam, celebrated as the 'Children's creativity and Innovation Day' every year by NIF. The prizes and awards were distributed to the children on 26th November 2008 at Indian Institute of Management, Ahmedabad by Honourable Dr. A. P. J. Abdul Kalam, Former President of India.

Shodhyatra- The journey of exploration

21st Shodhyatra: Borra to Tittingvalsa, Arku Valley, Visakhapatnam District

The 21st Shodhyatra (Jun 2, 2008 - June 8, 2008) started from panchayat office near



Borra caves and after walking for a week through more than a dozen of villages and many smaller settlements mostly inhabited by tribal communities, concluded in Tittingvalsa in Arku Valley.

About 70 farmers, innovators, students, professionals, artisans, voluntary organization workers etc., from Gujarat, Maharashtra, Tamil Nadu, Karnataka, West Bengal, Jammu & Kashmir, Orissa, Delhi, and Andhra Pradesh in addition to USA and France attended the "Shodhyatra" and shared their knowledge with each other. During the journey many herbal healers and centenarians were felicitated at their door step for sharing their precious knowledge with the shodh yatris. Children and women, distinguishing in biodiversity and recipe contest respectively were also honoured.

B. 22nd Shodhyatra: Motihari to Lauriya, East and the West Champaran District

The 22nd Shodhyatra (December 29, 2008 to January 3, 2009) was organized in the East Champaran and West Champaran districts of Bihar. Starting from Gandhi Smarak, Motihari, East Champaran and covering 111 kms over a period of six days, the Shodh yatra culminated in a High School, Lauriya, Bettiah. Comprising people from

different sections of the society, the Shodh yatra had participation of 117 people from all over the country and two from Mexico and Germany. Motihari is widely known as the *karmabhoomi* of Mahatma Gandhi and the place from where Mahatma Gandhi started the *Satyagraha* movement. Also Motihari is reported to have one of the tallest Buddha Stupas in the world.

Satvik-08– The Traditional Food festival

Supported by NIF, GIAN and HBN, the Sixth Traditional Food Festival-Satvik -08 was organised by SRISTI at the IIM Ahmedabad, New Campus during December 6-8, 2008 to revive the forgotten recipes, create incentives for conservation of fast disappearing ago-biodiversity, and presenting its linkage with cultural and culinary diversity of India.



NIF with the help of GIAN put up an exhibition of innovations from different parts of the country. On the spot idea competition was also organized during the event. To spread awareness about NIF, posters and banners were put up at various places for dissemination purposes. Test marketing was done for several nutritive products developed based on the traditional knowledge.

The 8th foundation day of NIF was celebrated at SRISTI on 28th February 2008. On the same day awards were presented to the winners of idea and biodiversity competition. A meeting of Honey bee collaborators was also held on 29th February 2008.



Part Two: Deepening the furrows

A. Scouting and Documentation

National Campaign: During the sixth biennial campaign (February 1, 2007 - January 31, 2009) NIF received about 38,000 entries. The seventh biennial campaign started on February 1, 2009, and will continue till 31st December 2010. NIF has advertised the announcement of seventh campaign in major national and regional newspapers. While response has started coming in, like ever before, we expect far fewer entries through media advertisement than received through the HBN collaborators.

Shodhyatra follow up: As a follow up activity of different shodhyatras, representatives of NIF and Honey Bee Network members visited West Bengal, Jammu and Kashmir, Uttar Pradesh and Orissa. Orientation for preparation of Village Knowledge Register and detail documentation of selected practices from these areas were done as a part of activity. Various utensils and other required materials for processing herbal medicines were provided to a few herbal healers. The photographs taken during the shodhyatras were distributed to the innovators, healers, centenarians and students in these areas. Meetings were held with principals and teachers of various schools and distributed school kits to the

students, which included maps, posters, charts etc.

Shodh Sabhas and scouting initiatives in Haryana: GIAN-N organized five shodhsabhas/ Gyan Choupals in four villages (Nilokheri, Rasina, Jheel and Sajuma) of Kaithal District and Jind of Haryana among the villagers and farmers in the region. The purpose was to create awareness about our mission, mobilize new innovations in the ongoing campaign and to establish linkages in the region. We have so far received very few entries from this otherwise progressive state.

Scouting through students: Six students of MRMD course of Tripura University visited the organization for fifteen days. They spent First ten days in office and during the last five days scouted two hundred herbal practices from their respective localities. In addition, SRISTI continued to engage with students during summer vacation to harness the creative energy of youth.

Scouting and Documentation Grants: S&D grant of Rs. 3,50,374 has been extended for various activities to be carried out viz. Scouting and documentation in different states and for holding workshop to spread the word about the NIF and Honey Bee Network activities. NIF also offers Scouting fellowships to innovators and scouts in different parts of the country to scout and

document innovations, ideas and traditional knowledge practices.

Workshops: To build capacity in scouting and documentation, how to take prior informed consent of knowledge holders and innovators and why should we disseminate first before we scout, Workshops were organized at Bankura, and Kolkatta, West Bengal; Pasighat, Arunachal Pradesh; Jesdan, Rajkot, Gujarat; East and west Champaran, Bihar; NIIT, Surat, Gujarat; various Krishi Vigyan Kendra's from Uttar Pradesh, Delhi; SRISTI, Ahmedabad, and Dangs, Gujarat; Hyderabad, Andhra Pradesh, Himachal Pradesh, Punjab etc. In addition village meetings were organized in Andhara Pradesh, Bihar, Gujarat and Jharkhand.

A Meeting for technology audit, social diffusion and lateral learning among innovators, imitators, and users of bullet santi was held at Rajkot on 5th May 2008. Mr. Sen Sharma from CMERI, Durgapur and Mr. R K Sinha from CSIR, Delhi attended the meeting and learned from the farmers and artisans about the design developed by CMERI and also other innovators.

B. Value Addition, Research and Development (VARD)

Meetings of the Fifth Research Advisory Committee (RAC) were held to review the promising technologies/innovations and

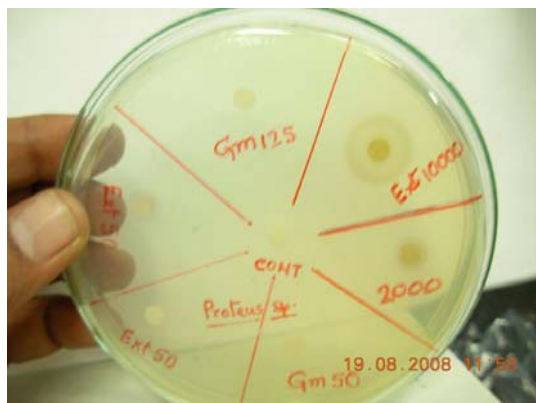
recommendations for incubation and/or NIF awards. Another Meeting of the National Research Advisory Committee of formal experts on mechanical innovations was held on 19th October 2008 to evaluate entries received in the Fifth National Biennial Competition and make recommendations for different level of awards. Over 60 technologies comprising 42 innovations and 18 innovative ideas from the grassroots innovators and students were evaluated by the committee. The committee was chaired by Prof. Girija Sharan, Professor, IIM-A and other participants included professors from IITs and scientists from renowned research institutions like CIAE and state agricultural university. Meeting of the National Research Advisory Committee with experts from the informal sector for mechanical innovations was held on 27th November 2008 to evaluate the entries presented to the committee of formal experts.

National Research Advisory Committee (RAC) meeting for agriculture, herbal human and veterinary practices was held at IIM-A on 15th November 2008. Fifteen eminent scientists, including two Vice Chancellors, were present in the committee to judge the innovative practices presented by NIF. Dr. P. L. Gautam, DDG (Crop Science), ICAR, chaired the committee. Together the experts gave their comments on 51 grassroots

innovations/unique traditional knowledge practices.

Validation of agricultural practices:

Validation of the plant protection, farm



practices and plant varieties were done at different institutions. The summary of validation is given below.

Plant Protection practices: Thirty two plant protection technologies received from grassroots innovators were validated at SRISTI Laboratory against aphid (*Lipaphis erysimi* Kalt.) in mustard, Bollworm (*Helicoverpa armigera* Hubner) in chick pea, and army worm (*Spodoptera litura* Fab.) in cabbage. Twelve technologies have given positive results in field conditions. Several technologies evaluated for termite infestation and bird repellent in agricultural crops were validated on five crops *i.e.* rice, wheat, gram, green gram and pigeon pea.

Evaluation of herbal extract to increase flowering in chilly crop was found highly effective. Another technology against maize stem borer was found to be effective at higher concentrations.

On-farm trials for validation of varieties:

Evaluation of a wheat variety developed by an innovator from Varanasi has been done at Banaras Hindu University, Varanasi. The performance of the variety in terms of heading, maturity, biomass and yield was reported at par with local varieties HUW 234 and PVW 343.

Varieties of Kabuli Chana, Guar and Moth bean were evaluated at Agriculture Research Station, Durgapur. Kabuli Chana variety was found to be suitable for semi-arid regions. Guar variety was found to be higher in yield while Moth bean variety was found with higher grain and fodder value.

Tinda variety preserved by Kir community in Rajasthan was found to have a high yield and better quality of fruits at a trial at Govt. P. G. College, Chimanpura.

Improved variety of Gram (Kabuli chana) developed by Sundaram Verma, Honey Bee Network collaborator was evaluated by BBD college, Chimanpura. A trial was conducted at farmer's field in the vicinity of BBD PG College, Chimanpura and found to have low

irrigation requirement, bold seeds with 500g test weight, and high market potential. The variety was compared with Pusa 1053.

Farm practices: A modified spacing method of Shri Antonysami was found to increase in weight (2.75 kg/cane) and height (346 cm) in sugarcane. Number of tillers were 20-24 per hill while the sucrose content was increased and found upto 20%. The trials were conducted at Krishi Vigyan Kendra, Farm Science Centre, Tirunelveli

Farm Practice developed by two innovative farmers for control of insect-pests in paddy crop using dried maize stalks was evaluated at Central Rainfed Upland Rice Research Station, Jharkhand and it gave positive results.

Validation on nutraceutical and herbal human health practices :

Four nutraceutical preparation comprising three biscuits and one health drink were evaluated at CFTRI Mysore. The biscuits made of minor millets had high of mineral content viz. Calcium (37-49mg/100g) and iron (2-5mg/100g), with high calorific value (513-514K cal/100g) and high fiber content. A cactus drink based on community knowledge reflected rich source of iron content and has shown that one glass of drink might supplement the daily requirement of iron. It also possesses good calorific value, Vitamine C and calcium.

Three traditional polyherbal formulations were evaluated for hypertension, hepatoprotective activity and Anti-arthritic activity. Antihypertensive formulation of Mr. R. Perumal and Mr. Sanjay Singh, significantly reduced Systolic BP at the dose of 300 mg/kg for three weeks. Hepatoprotective formulation of Mrs. Siyadevi, Mrs. Poochammal, M. Revathi and Mrs. Madinaben was found effective against hepatic injury induced by carbon tetrachloride. Treatment with test extract of formulation significantly reduced the elevated levels of enzymes like SGPT, SGOT and ALP. Serum cholesterol level was also reduced significantly. Anti-arthritic formulation of Mr. P. D. walikar exhibited inhibition property at 3rd and 4th hour respectively in carrageenan induced inflammation in Albino rats of wistar strain. The formulation had shown significant protective effect by reduction of paw edema volume, arthritic index, erythrocyte sedimentation rate and rheumatoid factor. Significant effect of extract was found at 700 mg/kg on arthritis. Experimentations were carried out at L. M. College of Pharmacy, Ahmedabad

Validation of herbal livestock and poultry practices : Traditional practice done by Sakrabhai Bhariya for Bloat has been evaluated at Bombay Veterinary College, Mumbai. Aqueous herbal extract has

shown significant change in pH and a recommended dose was standardized at the rate of 50g per day for bloat in animals.

Traditional community knowledge of Gujarat for Mareks disease virus was also evaluated at Bombay Veterinary College, Mumbai. The extract has not shown any detachment and rounding of the cells and no syncytia formation as well from chicken embryo fibroblast cell culture suggesting its likely impact on proliferation stage of virus and with toxic effects.

Seven technologies has been evaluated at SRISTI Sadbhav Laboratory, Ahmedabad including three for mastitis and one each for retention of placenta, ephemeral fever, haematuria and a nutrient supplement. The validation report of three technologies evaluated for mastitis was found to inhibit the growth of pathogens at the dose rates of 1-5 mg/ml. The practice for retention of placenta was found to be effective at the dosage rate of 50g to 140g per day and has not shown any toxic symptoms even at the dose rate of 100g per day for 21 days. The herbal formulation was found to help in involution of uterus and proper expulsion of placental tuft. Toxicity and clinical trials of herbal medication for ephemeral fever has shown no adverse effect on liver and renal functions. It has shown effect over total protein but had no impact on serum albumin and globulin indicating normal protein

metabolism. Toxicity and clinical trails of herbal medication curing haematuria in animals were conducted with the help of Kalol Panjrapole. Clinical evaluation has suggested no toxic impact of herb over liver and kidney dysfunction. The results were evaluated for four blood samples and for 21 days of drug administration.

The study of nutrient supplement at Dept. of Biotechnology, Oxford Institute, Bangalore given by Dayabhai Bharwad for animals was evaluated for its toxicological properties. Extract revealed absence of necrosis indicating the dose dependent protection of hepatocytes by CCl₄ induced hepatic damage. The liver sections of animals treated with the dose of 200 mg/kg body weight (both aqueous and methanol extract) showed normal hepatic cords with few fatty lobules (F).

Evaluation of Osteoblast proliferative potential of the unique herbal practice of Mogjibhai Damor was tested at Oxford Institute, Bangalore. Preliminary screening indicated proliferation of osteoblasts in MG 63 cell lines.

Validation of Engineering technologies through GIANS and other collaborators:

Low cost wind mill for lifting ground water: In January 2008, low cost wind mill

developed by Shri Mehtar Hussain and Mr Mushtaq Ahmed were installed at Little Runn of Kutchh for lifting brine (Salt water) for Salt production with the help of Rotary club, Wadvan city of Surendranagar. Five units have been installed. The response received was encouraging from the farmers and based on suggestions received it has been modified into multi direction wind mill to make it more efficient and useful. This wind mill adjusts itself according to the direction of wind flow and therefore it gives continuous discharge. After the successful installation of wind mill at Kutchh, Aga Khan Rural Support programme (AKRSP) also approached GIAN west for the installation of such unit at Junagadh district. A multi directional windmill was installed at Village Bhalchhel in Talala Taluka of Junagadh district on 24th May, 2008. The average water output was recorded to be 2000 lit / hr @12km/hr wind speed. One unit has also been established at Central Salt Marine Chemical Research Institute (CSMCRI), Bhavnagar.

For adding value, turbine blades made of different materials viz. FRP material, Composite panel mounted on aluminium frame and aluminium box filled up with PUF material were developed. It has reduced the weight of the blades without decreasing the strength of the blade of PUF material. The testing is yet to be carried out.

Auto Compression Sprayer: Prototype development work has been undertaken by GIAN with the help of IDEA, an Ahmedabad based professional design C o n s u l t a n c y Company. New designs have been conceptualized for increasing the pressure inside the tank by considering the tank as the dead weight.



Whole Stalk Paddy Threshing Machine: The innovative paddy threshing machine developed by Shri Mahipal Singh Rana essentially uses a simple conveyor system to feed paddy stalks to a threshing rotary cutter, which hits only the panicles leaving stalks uncrushed. Dr. S.M. Mathur, Associate professor, CTAE, MPUAT, Udaipur (Rajasthan) visited innovator's place to have a look at the technology. Further value addition and development of commercial prototype of paddy thresher machine by the innovator is being carried out.

Herbal Bullet Proof Jacket: Detail material research study at SRISTI laboratory is being carried out followed by prototype development. Innovator has developed various products like Helmets, pads for sports purpose, jackets etc., by using same

materials. Testing by DRDO, Chandigarh was done through College of Engineering, Pune and it was suggested to further improve the technology.

Plant Oil Stove: The first prototype developed and fabricated by Shantibhai, works on the principle of vaporizing the fuel and then forcing the vapors to the combustion zone. For other prototype development, PRINCE (Promoters & Researchers in Non-Conventional Energy) has been involved and has come up with a new model, which vaporizes the plant oil using the heat from the burner and thereby eliminating the use of electricity.

Low Cost Natural Cold Storage: Shri Arvindbhai, Gujarat has developed a low cost cold storage for vegetables, which was demonstrated to a team from G u j a r a t E n e r g y



Development Agency (GEDA). The concept prototype was tested at Krishi Vigyan Kendra, Chaswad, District Bharuch.



Long lasting personalized bulb: It has innovated by Bachubhai Thesia, Gujarat. Normal electricity AC has 50 cycles/ second. In case of short circuit or loose connection, AC cycles may go up to thousands and may result into the rupture of filament of bulb. The innovator has developed a new circuit to overcome the problem which helps the bulb last longer. To check the theft of this long lasting bulb he also started inserting a chit carrying name of the owner, a kind of signed bulb. He buys the bulbs for Rs 8, changes them and sells them for Rs 15 which includes the labour charges and profit. The bulb was tested at ERDA, Baroda and the extra circuit has been modified, which has eliminated the slight flickering problem.

Machine for Vermi Composting: Device developed by Nitin Tyagi, Uttar Pradesh was technically evaluated and formal comments have been received from the Department of

Soil Science and Agriculture Chemistry (Vermicomposting Trade), S.K.N. College of Agriculture (Rajasthan Agriculture University), Jobner.

Ceiling cooler: NIF released the support for the prototyping and testing of one unit of Ceiling cooler of Gopal Saluja from Haryana. HARTRON, who has tested the earlier version of this innovation, has agreed to mentor the innovator.

Multi-purpose processing Unit: Machine developed by Dharmveer, Haryana has been improvised as per inputs from a few users



and technical experts from K a m t e c h Associates Pvt. Ltd. The machine was demonstrated at Jaipur during Women SHG fair and at KVK, Jhunjanu. Lots of enquiries were received for the machine and its products.

Rice powder making machine: The machine innovated by Sundhan Saharia, Assam was validated by Department of Design, IIT Guwahati. Analysis of its fabrication material and process indicates that, machine can be made marketable through value addition.

After analysis, crushing rollers, doctor blade and gears have been fabricated in EHMWHDPE (Extra high molecular weight high density poly ethylene). Result has been encouraging and further value addition is under progress.

Extra - w e f t insertion in handloom fabric ornamentation device : It has been developed by Mr. Dipak Bharali, Assam. The



design available was evaluated at Design Department of IITG. It was found satisfactory in view of innovator's claim. Few trials at site at Sualkuchi were taken up and found satisfactory. It reduces the hardship of the weaver and consequently y increases productivity. The final design is still under development.

Fuel efficient auto engine: The engine developed by Sib Shakar Mandal, Assam was evaluated by the Centre For Energy, IIT Guwahati. The road tests revealed that the fuel consumption varies from 32 km to 37.5 km per litre which is 33 % less than without exchanger. The exhaust temperature at 3rd and 4th gear found considerably high in both with and without heat exchanger. With new heat exchanger, 3500-4500 rpm is the speed

at which the engine is most efficient and maximum waste heat is recovered. It was observed that average 87 ml (approx.) of water is produced in the combustion of one litre of petrol with heat exchangers, which indicates nearly complete combustion of the fuel. There has been significant improvement in fuel efficiency. Very high exhaust temperature suggests a significant amount of heat loss from the system. High exhaust temperature even after the modification demands a lot of improvement.

Charcoal stove with air regulator : The innovation by N. Kunjabihari Singh, Manipur was assessed by Dr. P. Mahanta, Center for Energy, IITG. The preliminary report is found encouraging. Design modification in terms of a passive air supply model i.e. air will flow inside the stove due to pressure difference is under progress.

Auto Stopper for engine: Its testing was facilitated at NSIC Technical Service Centre, Rajkot. A small and cost effective automatically actuated spring loaded mechanism is used to stop the engine if its



rpm increases suddenly due to breakage of the power transmission belt or insufficient water in the well or failure of the centrifugal belt, etc.

Innovative clay tawa: Developed by Mansukhbhai Prajapati, Gujarat, tawa was improved in design with the help of a NID student, Ahmedabad. To make the tawa more rigid and to increase its usability, an outer side ring light weight sturdy material with backlight or wooden handle has been provided. A better corrugated packaging was also developed to ensure safe transportation.



Groundnut digger cum separator as sea beach cleaner: The first field trials of the machine have been done successfully by Ardee Hi-Tech Pvt. Ltd. at Vishakhapatnum. A few modifications are under implementation.

Walnut cracker: The prototype of walnut cracker has been developed at University of Kashmir. Set of rollers developed in Rajasthan and Gujarat have been implemented in the unit and tested, efficiency was achieved about 70%.

Review of NIF-CSIR Joint implementation Committee

Traditional knowledge for human health applications:

In the project 'Validation of claims made by innovators for the purpose of treating Liver conditions, Malaria and Stye' at CIMAP Lucknow, out of six samples examined for hepatoprotective activity, only one showed the activity while two samples claimed for malaria have been found negative. Validation of three practices for stye is under progress.

Herbal formulation for Diarrhoea: Under the project at NBRI Lucknow on 'Short-term validation of herbal traditional knowledge with special focus on Diarrhoea', among five samples screened for the purpose, four showed positive activity.

Bio-efficacy validation of and value addition against agricultural pests : Laboratory trials at IHBT Palampur under the project entitled 'Bio-efficacy validation of and value addition in grassroots practices against agricultural pests' were conducted to evaluate the efficacy of several practices against different stages of *Helicoverpa armigera* (Gram pod borer), *Spodoptera litura* (Tobacco caterpillar), *Plutella xylostella* (Diamondback moth) and *Aphis craccivora* (Aphids). These practices have been evaluated for various activities viz. larvicidal, adulticidal, ovicidal, insect growth regulator (IGR) and antifeedent. Out of 27 practices, only one practice showed

promising results at higher concentration against all four studied insects. Subsequently, IHBT has formulated Neem based product based on innovator's technology for the control of sucking and larval pests.

Pain and inflammation: In the project, 'Development of screening procedures for the validation of folklore medicines', the methods have been standardized at IGIB Delhi for studying the possible mode of action and mechanism of an herbal formulation.

Herbal fruit ripener: Validation of herbal fruit ripener at CFTRI, has shown very promising outcomes. It should be noted that all ripeners are chemical in nature and this is the first time that a herbal one is proving to be effective for the purpose. The interesting finding is that the chemicals in bananas that have been ripened artificially are different from chemicals in bananas that have been ripened naturally. This makes the naturally ripened banana tastier.

Development of a joint database on medicinal plants: The information is compiled on pharmacognosy, phytochemistry, pharmacology, pharmacokinetics, toxicity and safety aspects of the plants used as medicines. The compilation of 450 plants has been completed.

Gas Stoves and safety valve for pressure stove: IIP Dehradun evaluated the performance for fuel consumption, thermal efficiency and steam (wet) temperature of seven type of stoves developed by grassroots innovators and found them useful. However, scientists recommended the scope for further improvement to meet the requirement as per the standards of Indian Bureau of Standards (BIS).

The safety valve for pressure stove was pneumatically tested at various test pressures. The dead weight of safety valve pops up at 0.7 kg/cm² pressure which is lower than the kerosene test pressure 1.4 kg/cm² as prescribed by BIS. The design needs improvement.

Jute Match Stick: The efficiency of Jute Match Stick was evaluated at IIP Dehradun in terms of mechanical rigidity, flame propagation, smoke emission, residual flame remaining in the ash etc. The Jute Match Stick is less rigid, having slower flame propagation than conventional matchstick.

Bio-mass Gasifier: A portable prototype of Bio-mass gassifier of 4 KW has been developed and sent to IIP, Dehradun for testing, evaluation and value addition under NIF – CSIR agreement. An entrepreneur from Germany visited India to see the demonstration of this system on February 03,

2009. Enquiries have been received from western and southern part of the country.

NIF-CSIR Joint Implementation Committee meetings

Meeting of the sub committee for Mechanical Engineering at CMERI, Durgapur:

Ten new innovations were presented for screening before the committee. Out of which, five viz. Pollution controlling device for engines, Biomass gasifier, Modified engine for pre heating intake air and air fuel mixture, Preheating intake air using exhaust gas for increasing mileage of two wheeler, and Auto gas stopper for LPG stove were recommended for validation at IIP, Dehradun and Walnut cracker by CMERI, Durgapur.

The committee also reviewed the ongoing projects at CMERI, Durgapur; viz. Motor cycle driven plough, auto compression sprayer, manual pulse thresher, self propelled reaper windrower, multipurpose agricultural equipment and hand operated water lifting device.

Meeting of the sub committee for Herbal technologies:

Monitoring and Sub-Committee meeting on 'Herbal Value addition' under CSIR-NIF Innovation Fellowship Scheme screened 65

novel practices from NIF database for human health, plant protection and animal health.

Meeting of the sub committee for Mechanical Engineering at IIP Dehradun

Meeting of the sub committee on Mechanical Engineering and Energy Innovations was held at IIP-Dehradun under the chairmanship of Dr. Gopal P. Sinha. Dr. M O Garg, Director, IIP, also attended it. CMERI presented the status of projects undertaken at their institute namely Shaktimainthan's water pump, reaper windrower, and auto compression sprayer. IIP-Dehradun presented the status of projects undertaken namely the stoves portfolio of NIF. Altogether four projects were selected for further incubation. NIF also made a presentation of 16 new technologies for consideration by the sub committee.

NIF-ICMR joint initiative

Progress on the evaluation of anti-typhoid, hepatoprotective and antidiabetic activity of ethnomedicinal plants

The scientists of ICMR Virus Unit, Kolkata visited the concerned herbal healer at his place in September 2008. The investigators met the local healer to get first hand knowledge of preparation of the extract and to collect the actual plant specimen from the site of

report of the practice. Idea was to rule out any possibility of variation/inadequacy in the documentation of the technical information about the practice as well as identification of the plant species. The preliminary *in vitro* antibacterial activity study revealed that the aqueous extract of studied plant can inhibit four isolates (*E. coli*, *S. typhi* B 3385, C3891, E1590) at 250 µg/ml and other isolates are inhibited at <512 µg/ml. The sensitivity of these isolates to alcoholic extract was at 512 to 1000 µg/ml.

Plant samples were sent for validation of hepatoprotective and anti-diabetic claims at Loyola College, Chennai and work is in progress.

Review of NIF-ICMR joint initiative for validation of non codified and non documented traditional knowledge

Meeting of experts for preparing EFC document for planning commission under the ICMR-NIF joint initiative was held during 4th & 17th June 2008 at ICMR headquarters, New Delhi. Subsequent meeting for finalizing the EFC was held on 5th July 2008 at IIM, Ahmedabad. Sub Committee Meeting of ICMR-NIF to give the final shape to the draft ICMR-NIF technical document were held on 7th August and 29th September 2008 at ICMR, headquarters. The proposal contains background of NIF - ICMR collaboration,

technical information and budget required. In order to discuss and finalize the "Operative technical document of ICMR-NIF joint Initiative for the validation of non-codified Health Claims" a meeting was held on 13th January' 2009 at CSIR Science Centre, New Delhi under the chairmanship of Dr. V M. Katoch, DG, ICMR and Secretary, Department of Health Research. Prof. R. Kumar, Chairman, ICMR-NIF JIC, Mr. Sanjeev Dutta, FA, ICMR and Prof Anil K. Gupta, EVC, NIF were also present in the meeting apart from senior colleagues from ICMR and former Sr DDG and DDG Dr Vasantha Kumari and Dr Nandini Kumar respectively. The mechanism of operation of the activities and the year wise requirement under ICMR-NIF joint initiative were elucidated. It was decided to extend the collaboration with more resources.

Participation in Exhibition and Workshop & Seminar

1. Nif representatives participated in many other meetings and exhibitions such as: Kishan Mella - Handicraft Expo by Index C, Government of Gujarat; Agri fair at Baroda; Kisan fair at Borsad, Anand district, Gujarat, Seminar on Grassroots Innovations – at SSVV College of Engineering, Dhulia; Presentation of low cost wind mill at Awareness cum sensitization workshop for policy level

officials, salt manufacturers, traders & wholesalers, Ahmedabad; Tie Entrepreneurial Summit, Bangalore; “Techniche” the annual techno-management festival of IIT Guwahati etc.

2. Workshops for evaluating indigenous livestock medications

Research Advisory Committee members were invited for evaluating fifth competition livestock entries and workshop was conducted for the purpose at Indian Veterinary Research Institute, Izatnagar on 14th March, 2008. Joint Director (Academics) chaired the session comprising 14 scientists from disciplines like veterinary medicine, animal nutrition, extension education, livestock economics, veterinary microbiology, veterinary public health, veterinary pharmacology and gynecology.

Business Development Activities

Test marketing support to innovators: Four projects of innovators namely Mr. Abdul Razak, Mr. Prem Singh, Ms. Khumujam Jina and Mr. Maishnam Maimu were assisted for test marketing (Rs. 22,500/-).

Micro Venture Innovation Fund (MVIF): Total amount of Rs. 34,50,800 has been disbursed to fifteen projects (see list, annexure one). In

the current financial year, total amount of Rs. 12,28,712 has been recovered from four earlier assisted projects. In addition, Gian North supported Dharamveer Singh of Haryana for his innovation of multipurpose processing machine under for Rs. 2,80,000 repayable in a year.

Product enquiries received: NIF received a total of 397 Product Enquiries, of which 95 are from outside India. The maximum number of total enquiries i.e. 81, has been received for Manual Milking Machine. The maximum numbers of International Enquiries i.e. 16 are for coconut tree climber.

Technology Licensing

Electro tyre retreading: The marketing rights of this innovation by Mr. Augustine Thompson from Thrissur was licensed to Eastern Threads Ltd. on an exclusive basis. Eastern Threads is a subsidiary company of the masala producing giant, Eastern Masalas Ltd.

Tea making machine: The concept of tea making machine, the Indian way, by Ashok Dhiman of Haryana and Late PL Mistry of Rajasthan was negotiated with an entrepreneur from Kolkatta for joint product development with the help of a design firm in Ahmedabad. Progress has been slow due to loss of interest on the part of entrepreneur.

Gear box for marine diesel engine and Z drive system: This innovation by Mr. Mohanal from Kerala is being considered for marketing in Kerala by the MATSYFED, the Kerala state fisheries concern. For a start MATSYFED has given a trial order of 25 pieces.

Low cost windmill: To commercialize low cost innovation on mass scale, the technology was licensed by GIAN west on Non exclusive basis to M/s Aditi Impex Ltd, Ahmedabad. They agreed to pay down payment of Rs. 50000/- + 5% royalty on sales.

Maruti Jhula Rocking cum Exercise chair: The non-exclusive manufacturing and marketing worldwide rights of the Maruti Jhula, rocking chair for exercise, developed by Shri Sakrabhai Prajapati from Kalol was transferred by GIAN west to M/s Janak Enterprise Dahanu Road (Maharashtra), and an agreement was executed on October 7, 2008. The entrepreneur agreed to pay total rupees one lakh as down payment and 5% royalty for sales in India and 10% royalty for sales abroad. They have launched a new model of Maruti Jhula in Mumbai and Goa market. Customers appreciated the new model.

Partnership pursued for technology licensing and other kind of collaboration:

Aphid and other pest control: M.s. Balaji Crop care Pvt. Ltd., Hyderabad – Technology licensing; Grassroots technologies eligible for carbon credit – Messrs. Technergy ESCo Pvt. Ltd., Mumbai; Septic tank baffle system – EverClean Readymade Septic Tank Co., Dehradun –for Uttarakhand; Septic tank baffle system – Biotech services, Haryana; 10 HP Tractor – Nana Sarpong, Ghana, For distribution in Ghana; Ajooba Tubelight – Velala Industries, Mumbai, Franchisee for manufacturing and marketing; Cassava peeler, Manual Milking machine – Chandan Maloo, Uganda, Marketing rights for the African market; Groundnut digger – Cosmos International, New Delhi, Marketing rights for the North East African market; Cashew nut peeling machine: MP Trading, Vietnam, For use in Vietnam. The discussions are still in progress in some of these cases. Export of four coconut tree climbers was facilitated to Mexico and Hawaii.

Other Business promotion activities:

Total 10 students from various B-schools of the country joined Business Development Unit of NIF for doing their Summer Internship Programme. This includes 5 from XIM, Bhubaneswar, 2 from IIFM, Bhopal, 2 from IBS, Ahmedabad and 1 from Ganpat University, Mehsana.

GIAN –N organised workshop cum exposition on grassroots innovations in collaboration with DST, Rajasthan Government and with UPASaC centre, Tehri and Almora, Uttarakhand. Further, a live demonstration of Multipurpose Processing Unit was organized at village Itawa Bhopji, 15 Km from Chomu in collaboration with DST, GoR.

NIF participated in the Second Innovative Technologies for Manufacturing Expo organized by All India Association of Industries and World Trade Centre, Mumbai held at Expo Centre, World Trade Centre, Mumbai. Out of the total 20 technologies nominated under four categories, grassroots innovators viz., Mr. K J Baby, Mehtar Hussain, and Mushtaq Ahmed received the appreciation mementos for their innovations White Flowered Cardamom Variety and Low Cost Wind Mill respectively under the Agricultural and the Energy sector respectively. SAAKAR, a National Business Plan and Entrepreneurship Building event was organized with S P Jain Institute of Management and Research, Mumbai. A new addition to SAAKAR 2009 was the inclusion of Alumni and students from the Family Business Programmes of different institutes across the country and also two product design houses.

Intellectual Property Rights

Forty five (45) new patent applications and Forty six (46) complete specifications have been filed in this period. A total of nine patents were granted during the year 2008-09. Total numbers of granted Indian patents till date are thirty five (35) and US patents are five. Apart from this, six trademark applications, two design applications and ten Plant Variety and Farmer rights Applications were also filed during this period.

Trade mark applications for 'InnovationPedia' and g2g with 'grassroots to global' text were filed during this period and three Trademark applications were also defended.

Information Technology and Dissemination

The main functions carried under IT&D are software development, website development and maintenance, databases maintenance, server maintenance, procurement of IT resources and dissemination or diffusion of grassroots technologies.

Software Development Activities:

Management Information System (MIS): Management Information System (MIS) is one of the major projects of NIF started by Mindtree, a professional company. The work

is carried out phase wise. Phase I comprising functional requirement specifications has been discussed and completed. It includes entire MIS application, website integration, technology exchange bidding and innovationpedia (multilingual, multimedia options included). Document signing and freezing of requirements will be covered under Phase I.

Online Incubation Portal 'InnovationPedia' : The revised and improved version of Incubation portal InnovationPedia is being tested. The application shows the complete information flow from scouting and documentation to dissemination activities. This was funded by SRISTI as a part of infodev project earlier. The UI (User Interface) is ready. However, back end support in terms of database and coding is still to be done. NIF is in talk with 'Mindtree Consulting' to complete it.

Dissemination and Networking activities

Various members of Honey Bee network have contributed to dissemination activities during the year. DD Jaipur showcased six innovations through GIANN. Modified hand pump was disseminated through NGO like PRADAN and state government.

NIF has distributed more than 17,000 multimedia CDs in various exhibitions, conferences, seminars and shodh yatras. More than 400 posters were put up in the sixth traditional food festival "Satvik" which proved a useful way to disseminate the organizational activities and objectives to the general public.

Part Three: outside –inside

Dr T. Ramasami, Secretary, Department of Science and Technology, Government of India, visited NIF office on 25th September 2008 and made numerous suggestions for improvement of the activities. Shri R Gopalakrishnan, Executive Director, Tata Sons and Member, Governing Council visited NIF on 14th October 2008 and helped forge many linkages with TATA companies for the dissemination of grassroots innovations. A Higher Defense Management Course team comprising senior officials of the three defense wings-Army, Navy and Air force visited NIF on 24th October 2008 to understand the work NIF has been doing over the years. Dr. N. Ramachandran, Vice-Chancellor of Periyar Maniammai University, Periyar, Vallam Thanjavur, Tamil Nadu visited NIF on 25th October 2008 to explore possibilities of a tie-up to scout, document, validate, value add and market technologies from the grassroots people of the Periyar PURA region and surrounding areas while

protecting their IPRs. Prof. Kuldeep Mathur, Eminent scholar and Retired Professor, JNU and Member, Governing Council NIF, visited NIF for a one-to-one interaction with the staff on 27th October 2008. Among various things, he discussed the need to expand the network's reach in different parts of the country and finding entrepreneurs for technologies ready for licensing. Dr. A.P.J. Abdul Kalam, former President of India meet the staff at IIM on 25th November 2008. Prof. Eric Von Hippel, Professor and Head of Innovation and Entrepreneurship Group at the MIT Sloan School of Management visited NIF on 27th November 2008. He was fascinated about the innovation on low cost technologies like sanitary napkin making machine. He also visited field sites where GIAN West has operationalised the low cost windmills. Dr. P. L. Gautam, Chairman, NBA, Chennai, visited NIF on 1st February 2009 and had discussions about strengthening linkages between National Biodiversity Authority and NIF.

NIF's representation in important meetings

Dr Vipin Kumar visited Jakarta as an expert in meeting on E-learning Course Development on the subject of Grassroots Innovation Management in Jakarta (Indonesia), 16-17th September 2008 on

behalf of SRISTI. Mr L. Chinzah, NC-BD & Micro Venture participated and delivered a lecture in 2008 Asian Social Entrepreneurs Summit on 28-30th October 2008 organized by the Work Together Foundation, in Seoul Korea on behalf of SRISTI.

Prof Anil K Gupta delivered a talk in the session on “Touching A Billion Lives: Bottom of Pyramid Technology” at the Emerging Technology India 2009, New Delhi, 3-4th March 2009; he delivered a keynote lecture at International Conference on ‘Novel Approaches for Food and Health Security in High Altitudes’, Leh-Ladakh, 6-10th September 2008. He also discussed possible collaboration with the Defense lab DRDL, which organized this conference. He also interacted with management faculty at Manipur, Mizoram, Assam, and interacted with different NGOs in Tripura, Nagaland, and Mizoram.

Part Four: Budget

B C M Associates
402/403 Janpath, 4th floor,
Chartered Accountants
Near LIC, Nehru Bridge, Ashram
Road, Ahmedabad – 380009.

AUDITORS’ REPORT

We have audited the attached Balance Sheet of NATIONAL INNOVATION FOUNDATION INDIA, Bungalow No. 1, Satellite Complex, Premchand Nagar Road, Satellite, Ahmedabad – 380 015 as at 31st March 2009 and the Income and Expenditure account for the year ended on that date annexed hereto. These financial statements are the responsibility of the trustees. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting

principles used and significant estimates made by trustees, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

Further to the above, we state that -

- (a) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purposes of our audit;
- (b) In our opinion, proper books of account as required by law have been kept by the Foundation so far as appears from our examination of the books;
- (c) The Balance Sheet and Income and Expenditure Account dealt with by this report are in agreement with the books of account;
- (d) In our opinion and to the best of our information and according to the explanations given to us, the accounts read with the notes thereon give the information required by the Bombay Public Trust Act, 1950 in the manner so required and give a true and fair view -
 - I. in the case of the Balance Sheet, of the state of affairs of the Foundation as at 31st March 2009; and
 - II. in the case of the Income and Expenditure Account, of the Excess

of Income over Expenditure for the year ended on 31st March, 2009.

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

- (1) The accounts are maintained regularly and in accordance with the provisions of the Act and the Rules.
- (2) The receipts and disbursements are properly and correctly shown in the accounts.
- (3) The cash balance and vouchers in the custody of the trustee on the date of audit were in agreement with the accounts.
- (4) All books, deeds, accounts, vouchers, or other documents or records required by us were produced before us.
- (5) A register of movable and immovable properties is properly maintained and the changes therein are communicated from time to time to the regional office of the Charity Commissioner.
- (6) There are no defects and inaccuracies mentioned in the previous audit report which need to be complied with.
- (7) The manager / trustee required by us to appear before us did show and

furnished the necessary information required by us.

- (8) No property or funds were applied for any object or purpose other than the object or purpose of the trust.
- (9) The amounts outstanding for more than 1 year and the amounts written off are NIL.
- (10) Tenders were invited wherever the repairs or construction involving expenditure exceeding Rs. 5,000 was taken up.
- (11) We have not come across any case of alienations of the immovable properties contrary to the provisions of section 36 of the Act.
- (12) We have not come across any case of irregular, illegal or improper application of or failure or omission to recover monies or other property belonging to the public trust or of loss or waste of money or other property thereof on the part of the trustees or any person while in the management of the trust.
- (13) The minimum and maximum number of the trustees is maintained.
- (14) The meetings are held regularly as provided in the trust instrument.
- (15) The minute book of the proceedings of the meeting is maintained.
- (16) None of the trustees has any interest in the investments of the trust.

(17) None of the trustees is debtor or creditor of the trust.

(18) No irregularities are pointed out by the auditors in the accounts of the previous year which require to be complied with by the trustees during the period of audit.

For B C M Associates
Chartered Accountants

Ahmedabad

Bharat C Mehta

Dated: August 31, 2009

Proprietor

Membership No. 30268

NATIONAL INNOVATION FOUNDATION - INDIA

BALANCE SHEET AS ON 31-03-2009

Regn.No.F/7412/Ahmedabad

FUNDS & LIABILITIES		Rs.	Rs.
Trust Funds or Corpus			
Balance as per last Balance Sheet			200,000,000
Other Earmarked Funds			
As per Schedule 1			75,004,831
Liabilities :			
- For Advance Received		6,700	
- Innovator fellowship fund		4,000	10,700
- Innovation Fund			
Income and Expenditure Account :			
Balance as per last Balance Sheet		17,620,945	
Less : Excess of Income over Expenditure as per Income and Expenditure Account		3,041,760	20,662,705
		Total..	295,678,236
PROPERTY & ASSETS		Rs.	Rs.
Immovable Properties			
			0
Movable Properties			
As per Schedule 2			
Gross Block		9,900,038	
Less : Depreciation Reserve fund		7,280,791	
Net Block			2,619,247
Investments			
8% GOI Saving Bonds			224,950,000
Advances :			
- To Trustees		-	
- To Others			
CSIR-NIF fellow		918,504	
Misc advances		496,000	
Utility Deposits		174,050	
RGB - NID			1,588,554
- Tax Deducted at Source		2,219,740	
- MVIF Project A/c as per Schedule 3		6,864,117	10,672,411

PROPERTY & ASSETS		Rs.	Rs.
Cash & Bank Balances			
Cash on hand			100
Balance with			
- UTI Bank, Vastrapur - A/c. No.1548		-874,643	
- A/c. No. 8099 MVIF		1,597,304	
- Kotak Mahindra, Vastrapur - SB A/c. No.762		64,239	
- SBI, IIM - A/c. No.30379920229		8,450	795,350
Fixed Deposits			
- A/c. MVIF		47,487,646	
- A/c. NIF		9,153,482	56,641,128
		Total..	57,436,578
		Total..	295,678,236

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

Bharat Mehta
Proprietor
(Membership No. 30268)

Place : Ahmedabad
Date : 31-08-2009

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

TRUSTEE

Place : Ahmedabad
Date : 31-08-2009

NATIONAL INNOVATION FOUNDATION - INDIA

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31-03-2009
Regn.No.F/7412/Ahmedabad

INCOME	Rs.	Rs.
<u>Grant received:</u>		
- DST	9,939,000	
- Ignite	1,100,000	11,039,000
Amount transferred from Earmarked Fund		9,222,644
<u>Interest received:</u>		
- On Investments	17,996,000	
- On Admn Fund of MVIF	40,625	
- On Loans (On TDS)	19,183	
- On F.D.R with Banks - A/c. NIF	318,316	18,374,124
Total..		38,635,768
EXPENDITURE	Rs.	Rs.
Audit & Professional Fees	31,337	
Depreciation	1173571.00	
Less:dep reduced for assets deduction	3120.00	1,201,788
To Amounts transferred to reserve or specific funds:		
- Earmark Fund - to be utilised before 2014		6,700,000
Expenditure on object of the trust		
(a) Religious	0	
(b) Educational	27,692,220	
(c) Medical	0	
(d) Relief of Poverty	0	
(e) Other Charitable Objects	0	
		27,692,220
Excess of Income over Expenditures transferred to Balance Sheet		3,041,760
Total..		38,635,768

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

Bharat Mehta
Proprietor
(Membership No. 30268)

TRUSTEE

Place : Ahmedabad
Date : 31-08-2009

Place : Ahmedabad
Date : 31-08-2009

NATIONAL INNOVATION FOUNDATION - INDIA

Schedule - 1

Other Earmarked Funds

PARTICULARS	Rs.	Rs.
Capital Fund - NAT Project		
Opening Balance		433,294
Earmarked Fund		
- to be utilised before 2012	11,600,000	
- to be utilised before 2014	6,700,000	
		18,300,000
Micro Venture Innovation Fund- A/c SIDBI		
Balance as per last Balance Sheet	54,853,769	
Add : Interest received	1,417,768	
		56,271,537
Administrative Grant - SIDBI		
Balance as per last Balance Sheet	9,222,644	
Less: Utilised during the year	9,222,644	
		0
TOTAL		75,004,831

NATIONAL INNOVATION FOUNDATION - INDIA

Schedule 2

Movable Properties

Particulars	GROSS BLOCK			
	Balance as on 01/04/2008	Additions during the year	Transferred during the year	Gross Block as on 31/03/2009
	Rs.	Rs.	Rs.	Rs.
Furniture & Fixtures	1,147,277	5,950	-	1,153,227
Computers	4,847,559	241,181	-	5,088,740
Fax Machine	29,232	-	-	29,232
Refrigerator	24,510	-	-	24,510
EPABX System	51,908	14,980	-	66,888
Photo Copying Machine	505,202	-	-	505,202
Fire Extinguisher	13,405	-	-	13,405
Telephone/mobile Instrument	213,990	14,000	-	227,990
Camera	560,795	44,800	-	605,595
Equipment	190,915	-	-	190,915
Software	1,345,932	56,543	10,400	1,392,075
Electrical Installations	69,610	-	-	69,610
Air Cooler	92,980	-	-	92,980
Vechile	112,457	-	-	112,457
Public Address System	60,111	-	-	60,111
Sony LCD	91,000	-	-	91,000
Tape recorder	33,125	-	-	33,125
Scanner	49,750	-	-	49,750
Networking equipment	57,788	-	-	57,788
Balloon	35,438	-	-	35,438
Total A	9,532,984	377,454	10,400	9,900,038

NATIONAL INNOVATION FOUNDATION - INDIA

Schedule 2

Particulars	DEPRECIATION				Net Block As on 31/03/2009
	Depreciation up to 31/03/2008	Depreciation on assets transferred	Depreciation for 2008-09	Total Depreciation up to 2008-09	
	Rs.	Rs.	Rs.	Rs.	
	355,462	-	79,480	434,942	718,285
	3,928,704	-	685,425	4,614,129	474,611
	19,034	-	1,530	20,564	8,668
	6,741	-	2,665	9,406	15,104
	33,183	-	5,056	38,239	28,649
	278,253	-	34,042	312,295	192,907
	7,450	-	893	8,343	5,062
	62,497	-	24,209	86,706	141,284
	167,751	-	65,677	233,428	372,167
	46,499	-	21,662	68,161	122,754
	1,102,453	3,120	162,738	1,262,071	130,004
	9,565	-	6,005	15,570	54,040
	19,410	-	11,036	30,446	62,534
	24,038	-	13,263	37,301	75,156
	4,508	-	8,340	12,848	47,263
	6,825	-	12,626	19,451	71,549
	14,241	-	2,833	17,074	16,051
	3,732	-	6,903	10,635	39,115
	17,336	-	24,271	41,607	16,181
	2,658	-	4,917	7,575	27,863
	6,110,340	3,120	1,173,571	7,280,791	2,619,247

NATIONAL INNOVATION FOUNDATION - INDIA

F.Y. 2008-2009

Schedule - 3

ADVANCES A/c. MVIF PROJECTS		
	Rs.	Rs.
North East Region		
Arena Nut Peeling machine	37,500	
Automatic Pump Operator	1,200	
Bamboo Strip & Stick Device	12,767	
Bamboo Strip/ Stick Making Machine	5,028	
CIMAP Project	61,964	
Dual Alarm Security Device	205,140	
Egg Incubator	60,000	
Electric shock proof convertor	20,485	
Garlic Peeling Machine	28,900	
Interlocking Bricks	24,743	
Kerosene Stove	25,283	
Passion Fruit Juice Extractor	11,107	
Rural Multi Purpose Dryer	4,250	
Usman Shekhani	14,750	
Wind Turbine	17,167	
Wood apple tea	17,050	
Wood Cutting Machine	54,767	
Wood Carving machine	8,000	
Muga Reeling Machine	20,000	
Pomegranate Deseeding	17,000	
Amount lying with coordinating agency	383,173	1,030,274
North Region		
Automatic Parking Light	3,500	
Bio Mass Gasifier	640,462	
Coil Winding Machine	7,118	
Film Projector	16,472	
Fire Cracker Device	7,000	
Ground Digger Machine	-5,000	
Horse Shaver	19,224	
HNP-Performance Enhancer for Petrol Engine-Ha	6,800	
Manual Automatic Starter	6,085	
Modified Solar Cooker	5,047	
Multi crop Thresher	665,244	
Multi-purpose Bicycle	10,000	
Safety Value for Stove	12,000	
Stoves Testing	5,500	
Tea Making Machine	30,000	
Tile Making Machine	4,500	
Herbal Growth	162,407	
Multi Seed Drill	445,268	
Trench Digger Machine	10,238	
Amount lying with coordinating agency	145,411	2,197,276

ADVANCES A/c. MVIF PROJECTS		
	Rs.	Rs.
Western Region		
Bicycle Hoe	15,000	
Bicycle Sprayer	5,221	
Diesel Engine	25,100	
Healthcare chair	37,390	
Jabbar Gear Project	31,221	
Jute Matchstick	10,000	
Kerogas Stove	4,847	
Key Way Making Device	12,000	
Kite String Winder	107,875	
Motor Protection Device	99,846	
Multipurpose Agri. Device	8,000	
Sickles	6,600	
Sugarcane Rotavator	47,486	
Tong Project	20,500	
Rachna Enterprise- Natural water cooler	-66,554	
Mitticool Clay	1,991	
Scooter Mounted Paint Gun	52,312	
Amount lying with coordinating agency	177,833	596,668
Southern Region		
GIAN- CELL, (J&K)	200,000	
GIAN- CELL, SSIT	7,240	
SEVA (Multipurpose Cooking Vessel-Abdul Razak)	48,250	255,490
Projects under direct supervision of NIF		
A N Manoharan	14,500	
A.N.shukla	72,375	
Airkick Pump	3,614	
Appachan M.	63,305	
Ashok kumar-wood apple jam	7,556	
Automatic Portable Sprayer	1,250	
Balramsingh saini	11,200	
Battery Operated Sprayer	600	
Buttonhole Stitching Machine	200	
Chandrapal SinghChandrapal SinghChandrapal Singh	7,000	
Cotton Stripper	3,614	
C.V. Raju- Anything by hand	200,000	
Double Acting Pump	500	
Deepak Bansali-Innovative Design Making Machine	225,000	
Electric Generator	34,515	
Electrical Apparatus	1,000	
Improved Multicrop Thresher	500	
Improved Screw	2,200	
Intercom Device	3,294	
K.linga Brahman	50,000	
K.P. Chinnaswamy	33,727	

ADVANCES A/c. MVIF PROJECTS		
	Rs.	Rs.
K. R. Chandran	125,000	
K.S.Sudheer	10,000	
M. Nagarajan	-5,000	
Manoharan	3,000	
Manual Sprayer (Gopalbhai Surtia)	6,370	
Manual Sprayer (Khimjibhai Kanedia)	6,370	
Mohd. Saidullah	16,000	
Multi-purpose Agri. Device	1,977	
Multipurpose Electric Boiler	1,250	
Nageshwar Pandit	2,850	
Oil Expeller Machine	3,614	
Prakash Singh Raguvanshi-Oryza Sative	100,000	
P. K. Ravi	-10,800	
Radheshyam sharma	5,000	
Rajesh Deshmukh (Modified Solar Cooker)	3,500	
Rajesh T.R.	9,000	
Safuruddin kazi	25,000	
Satish Deb	42,000	
Solar Cooker shaikh	2,500	
Sugarcane Bud Chipper Device	-2,500	
Tukaram Verma	1,800	
Vanraj Tractor	3,614	
Wazeer - Innovative Blind man Stick	25,000	
Yellow Fouier Technologies P. LTD- Indain Tea Making	210,000	
Dr.K.L.Rao- Honeybee AP	184,000	
Jayshree Industries- Sanitary Napkin	682,500	
Director, SMIT- Ajooba Tube Light Frames	301,414	
Amla Enterprise	95,000	
Augustine Thomas- Electro Tyre Rethreading machine	200,000	2,784,409
TOTAL		6,864,117

NATIONAL INNOVATION FOUNDATION - INDIA

Schedule - 4
Educational Expenses

Sl. No.	Particulars	Rs.	Rs.
A.	Administration		
1	Accommodation	68164	
2	Bank Charges	17015	
3	Books & Subscriptions	9226	
4	Consultancy Charges	150000	
5	Electricity Expenses	266828	
6	Human resource payments		
	Contractual payment	333149	
	Fellowship	34097	
	Salary	332452	
7	Insurance Premium	34709	
8	Meeting Expenses	107209	
9	Office Expenses	130758	
10	Postage	63661	
11	Recruitment Expenses	1015910	
12	Rent & municipal tax	1438571	
13	Repairs & Maintenance	70413	
14	Security Expenses	140190	
15	Staff welfare Expenses	59996	
16	Stationery & Printing	95527	
17	Telephone Expenses	251240	
18	Travel & Conveyance Expenses	923004	
19	Xerox	17273	5559392
B.	Information Technology/Database Development and Dissemination:		
1	Books & Magazines & Memberships	1927	
2	Communication & telephone expenses	73378	
3	Computer Consumables	104978	
4	Computer Maintenance & Upgradation	45594	
5	Consultancy Charges	468410	
6	Database	16927	
7	Dissemination	561661	
8	Human resource payments		
	Contractual payment	288573	
	Fellowship	411762	
	Salary	109000	
	Training / stipend	127327	
9	Internet	630750	
10	Postage & Courier	39418	
11	Stationery & Printing	116418	
12	Travel & Conveyance Expenses	57076	
13	Website/ Web Hosting	378000	
14	Xerox	10695	3441894
	BALANCE C/F		9001286

Sl. No.	Particulars	Rs.	Rs.
	BALANCE B/F		9001286
C.	Business Development Activities		
1	Books & Magazines & Memberships	4000	
2	Communication & telephone expenses	55893	
3	Exhibitions/Workshops & Competitions Exp.	201417	
4	Human resource payments		
	Contractual Payments and consultancy	166121	
	Fellowship	205435	
	Salary	742133	
	Training / stipend	61560	
5	Grant	30240	
6	Meeting expenses	49057	
7	Postage & Courier	23440	
8	Stationery & Printing	37714	
9	Travel & Conveyance Expenses	463367	
10	Xerox expenses	6360	2046737
D.	Intellectual Property Right Activities		
1	Communication & telephone expenses	19177	
2	Books & Magazines & Memberships	1190	
3	Human resource payments		
	Contractual Payments and consultancy	101274	
	Fellowship	458859	
4	Legal Expenses	13300	
5	Patent/ Trade Mark	531407	
6	Postage & Courier	14139	
7	Stationery & Printing	20444	
8	Travel & Conveyance Expenses	70928	
9	Xerox expenses	3836	1234554
E.	Scouting & Documentation		
1	Books & Magazines & Memberships	18537	
2	Campaign	1959895	
3	Communication & telephone expenses	239481	
4	Consultancy Charges	35000	
5	Exhibitions/Workshops & Competitions Exp.	290484	
6	Human resource payments		
	Contractual Payments and consultancy	701090	
	Fellowship	1584133	
	Field staff Expenses	435869	
	Salary	245100	
	Training / stipend	267500	
7	Honourium	25702	
8	Grant	1411479	
9	Ignite	265672	
10	Meeting Expenses	33728	
11	Postage & Courier	99100	
12	Scanning	245922	
13	Stationery & Printing	177412	
14	Translation charges	73199	
15	Travel & Conveyance Expenses	511778	
16	Workshop/ Seminar /Exhibition	5226	
17	Xerox	26889	8653196
	BALANCE C/F		20935773

Sl. No.	Particulars	Rs.	Rs.
	BALANCE B/F		20935773
F.	Value Addition and Research Development Activities		
1	Administrative Expenses	10936	
2	Books & Magazines & Memberships	450	
3	Communication & telephone expenses	155377	
4	Consultancy/ Honorarium Charges	4180	
5	Contractual Payment	823979	
6	Exhibitions/Workshops/Seminars	53708	
7	Fellowship including Innovator fellowship	966945	
8	Grant	431613	
9	JIC Exp.	30088	
10	Meeting expenses	386149	
11	Postage & Courier	59618	
12	Prototype Repairing & Other Exp.	581833	
13	Salary	654500	
14	Stationery & Printing	87345	
15	Training / stipend	13492	
16	Travel & Conveyance Expenses	698085	
17	Value Addition Awareness	231204	
18	Xerox	16176	5205678
G.	Supports Provided to		
1	NIF Cell (NE)	607129	
2	GIAN North & GIAN Cell J&K	943640	1550769
	TOTAL EDUCATIONAL EXPENSES		27692220

**Schedule IXC
(Vide Rule 32)**

Statement of Income liable to contribution for the Financial Year 01-04-08 to 31-03-09

Name of the Public Trust:	NATIONAL INNOVATION FOUNDATION - INDIA Bungalow No. 1, Satellite Centre, Satellite Complex, Premchandnagar Road, Jodhpur Tekra, Satellite, Ahmedabad - 380015.	
Regn.No.	F/7412/Ahmedabad	
	Rs.	
Gross Annual Income		
As per Income and Expenditure account	29,413,124	
As per Balance Sheet:		
Interest credited to MVIF A/c SIDBI	1,417,768	30,830,892
Total Gross Annual Income		
Details of Income not Chargeable to Contribution under Section 58 Rule 32		
(i) Donation received during the year from any sources		
(ii) Grants by Government and Local Authorities		
(iii) Interest on Sinking or Depreciation Fund		
(iv) Amount spent for the purpose of education	27,692,220	
(v) Amount spent for the purpose of medical relief		
(vi) Deductions out of income from lands used for agricultural purpose :		
(a) Land Revenue and Local Funds/Cess		
(b) Rent payable to superior landlord		
(c) Cost of production, if lands are cultivated by trust		
(vii) Deductions out of income from lands used for non-agricultural purpose :		
(a) Assessment, Cesses and other Government or Municipal Taxes		
(b) Ground rent payable to the superior landlord		
(c) Insurance Premium		
(d) Repairs at 8 1/3 per cent of gross rents of buildings		
(e) Cost of collection at 4 percent of gross rent of buildings let out		
(viii) Cost of collection of income or receipts from securities stocks etc.at 1 percent of such income		
(ix) Deduction on account of repairs in respect of buildings not rented and yielding no income at 8 1/3 per cent of the estimated gross annual rent		
Total of Deductions		27,692,220
Income liable to contribution -		3,138,672

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

Bharat Mehta
Proprietor
Membership No. 30268

Place Ahmedabad
Date : 31-08-2009



Investment

Innovation

Enterprise

National Innovation Foundation

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