NIABI Nexus
NIABI Half-yearly Newsletter, Vol. 4, September 2013
Creating opportunities for agribusiness to take off
Contents

NIABI’s Mission i
Technologies Commercialised 1
Success Stories on Co-Business Incubation 9
News and Events 14
NIABI 2013 16
Agri-Tech Investors Meet 2013 18
News Round - up 21
Reach us 28
NIABI’s Mission

Our Mission
To enhance agribusiness development and impacts on agriculture through co-business incubation.

How we accomplish this

Infrastructure
• Create a databank of indigenous agro technologies for commercialization from iCAR and SAUs.
• Identify international agro-technologies suitable in the Indian context
• Create a networking platform for agribusinessmen and mentors
• Create a platform for facilitating funding to start-up agri-businesses.

Process
• Conduct capacity building/training in new initiatives in agri-business incubation for business incubation managers
• Promote agri-business incubation nationally through co-business incubation.

Outcome
• Facilitate agri start-ups and incubatees by participation in exhibitions
• Conduct seminars on best practices for start-up agri-businesses through video conferencing/webcasting
• Facilitate softlanding support
• Annual Incubator/incubatee awards.

Highlights of NIABI
• Swifter diffusion from lab to land
• More effective interventions through appropriate PPP model/systems by involving all stakeholders
• A fully vertically integrated and horizontally networked mechanism offering total solutions to entrepreneurs for agriculture development, bringing together:
  • Technologies and research outputs as implementable projects
  • Service providers and seekers to a platform for effective technology exchange
  • Stakeholders, to enable them with capacity and resources and enhance their performance to create measurable impacts on beneficiaries.

Focus sectors
• Agriculture
• Veterinary
• Dairy
• Cotton and Jute technologies.
• Horticulture
• Fisheries
• Agri-Engineering

Opportunities in store

For Institutions
• Increased commercialization of technologies from agri-institutes
• High net worthy deals of technology transfer, exits by Mergers and Aquisitions through BPD/Business Incubator (BI), etc
• Facilitate commercialization of innovative agro-technologies through agri-business development benefiting farmers
• Strengthening the regional agri entrepreneurial ecosystem
• Effective marketing of programs and services to clients
• Facilitating self-sustainability of BPD/BI
• Impacting farm livelihoods through products and services of incubatees
• Opportunity for entrepreneurs and innovators.

For Entrepreneurs and Innovators
• One-stop solution for entrepreneurial needs
• Support services for agriculture and allied sectors
• Regional presence as reach-out strategy
• Pool of commercializable technologies
• Interstate support available through co-business incubation
• Mentoring, support, and access to infrastructure and facilities
• Technology and consultancy
• Research & Development facilities and office space with built-in facilities
• Access to high-end equipment
• Conference and meeting rooms
• Facilitate funding
• Capacity building
• Agricultural land and greenhouses
BPD Unit AAU

Date Palm Tissue Culture
The technology ensures elite, high yielding, and disease free plants, similar to the mother plant with low gestation period to the farmers at affordable rates.
Licensee:
1. Orchem Industries, Secunderabad

Area Specific Mineral Mixtures (ASMM)
The technology ensures improved immunity to animals plus other benefits added with increase in milk yield, lactation period and number of calves of dairy animals
Licensee:
1. Prakriti Biocare, Trivandrum

Biodiesel production from Jatropha
Licensee:
1. United Phosphorous Limited (UPL), Mumbai

BPD Unit CCSHAU

Maize Hybrids (HQPM 1 and HQPM 5)
High value maize hybrids from the BPD Unit of CCSHAU such as HQPM-1, HQPM-5 or Quality Protein Maize (QPM) contains nearly twice the quantity of the essential amino acids, lysine and tryptophan, which are essential building blocks of protein in humans, and mono-gastric animals like poultry and pigs. The maize hybrids developed by this university are good in quality, yield and fetch high prices in domestic and global markets.

Probiotic Culture
The technology ensures health benefits like improved immunity to the consumers.
Licensee:
1. Dr. Baboo’s Food Science and Biotechnology Private Limited, Trivandrum

<table>
<thead>
<tr>
<th>Licensees:</th>
<th>Maize Hybrids</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Siri Seeds (India) Pvt. Ltd.</td>
<td>(HQPM 1 &amp; HQPM 5)</td>
</tr>
<tr>
<td>2. Balaji Agri Biotech Pvt. Ltd.</td>
<td>(HQPM 1 &amp; HQPM 5)</td>
</tr>
<tr>
<td>3. J.K. Agri Genetics Limited.</td>
<td>(HQPM 1 &amp; HQPM 5)</td>
</tr>
<tr>
<td>4. Bioseed Research India (HQPM 1)</td>
<td>(HQPM 1)</td>
</tr>
<tr>
<td>5. Sampoorna Seeds, Adoni</td>
<td>(HQPM 1 &amp; HQPM 5)</td>
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</tbody>
</table>
CCSHAU’s Liquid Bio-fertilizers: Rhizoteeka, Bioteeka, Phosphoteeka and Azoteeka

Biofertilizers are such as Rhizobium, Azospirillum and Phosphobacteria provide nitrogen and phosphorous nutrients to crop plants through nitrogen fixation and phosphorous solubilization processes. Developed by Chaudhary Charan Singh Haryana Agricultural University, this technology has application/use in agriculture and the fertilizer sector. Liquid Bio-fertilizer solves the problem of soil deterioration as a result of continuous use of chemical fertilizers. It progressively increases the crop yield up to 5-10% and decreases the use of chemical fertilizer up to 25%.

Licensees:
1. Y.S. Sons Agrotech, Baddi, Himachal Pradesh

Wheat Variety WH 1105

Wheat Variety WH 1105 has excellent degree of resistance to yellow and brown rusts, flag smut, leaf blight and powdery mildew diseases. This new variety also possesses better characteristics in terms of higher Sedimentation Value (53 ml), gluten index (71) and good biscuit quality spreading factor (7.80). It is also better in nutrient uptake possessing the maximum content of Iron (32.7 ppm), Zinc (32.3 ppm) and Copper (5.26 ppm).

Licensees:
1. Super Seeds Pvt. Ltd., Hisar
2. Supreme Seeds, Fatehabad
3. Sharda Enterprises, Fatehabad
4. Genetic Seeds, Fatehabad
5. Haryana Seeds, Sirsa
7. Sandhu Seeds Farm, Sirsa
8. M/s Bhatti Agri Seeds, Sirsa
9. Nirankari Agri Seed, Sirsa
10. Hi Tech Kamboj Seeds, Karnal
11. M/s Harbir Agrotech Pvt. Ltd., Karnal
12. M/s Janak Seeds, Karnal
13. Kamboj Export, Karnal
15. M/s Pusa Super Seeds, Karnal
16. M/s Raj Enterprises, Karnal
17. Kadiyan Seed Corporation, Karnal
18. Arjun Seeds Corporation, Karnal
19. semenis Seeds Co., Panipat
20. Dhaliwal Seeds PVT. LTD, Kurukshetra
21. Agricon exports, Yamunanagar
22. M/s Ganga Seed Farm, Bathinda
23. Satguru Seeds, Bathinda
24. Bathinda Seed Farm, Bathinda
25. M/s Shree Ganesh Seeds Farm, Bathinda
26. Shree Balaji Seeds Farm, Bathinda
27. Punjab Crop Seed Farm, Bathinda
28. Tulsi Seeds Farm, Bathinda
29. Shree Ganpati Seeds Farm, Bathinda
30. Bhagat Seed Farm, Ludhiana
31. San Seed Farm, Moga
32. Sandhu Seeds Farm, Muktsar
33. Fine Line Hybrid Seeds, Muktsar
34. Satgur Seed Company, Sangrur
35. Krishi Vikas Sahakari Samitti Ltd., Hanumangarh
36. J K Agri Genetics Ltd., Hyderabad
37. Yamuna Seeds, Karnal
38. M/s Bharat Hybrid Seeds Company, Bathinda
Value added Quality Protein Maize and Pearl millet based Food Products Technologies

Low in cost and long shelf-life, value added quality protein Maize and Pearl millet based food products can generate more profits to the entrepreneur and people conscious towards health related food products.

ZTM-BPD Unit CIFT

Chitin & Chitosan

Chitin is an important by-product from the shell of shellfishes. Chitin and its derivatives, particularly chitosan find industrial application in various fields namely flocculation, paper making, textile printing and sizing, ion exchange chromatography, removal of metal ions from industrial effluents, manufacture of pharmaceuticals and cosmetics and as an additive in food industry.

Fish Kure – Extruded snack product from Fish

Fish Kure is a fish based extruded food product and have application as snack food. Usually, extruded products are prepared using cereal flour, which have less protein content and are limited in some essential amino acid.

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<tbody>
<tr>
<td>1. DKS Incorporate, Hisar, Haryana</td>
<td>Food Products technology namely Bajra Biscuits, Bajra Cake, Shelf-stable pearl millet flour and Extruded snacks</td>
</tr>
<tr>
<td>2. DKS Incorporate, Hisar, Haryana</td>
<td>Food Products technology namely Beverages and Brahmi Biscuits</td>
</tr>
<tr>
<td>3. Kamboj Foods Pvt. Ltd., Indri, Karnal</td>
<td>Food Products technology namely Pearl Millet Biscuits, Quality Protein Maize Biscuits, Bajra cake and NamakPaare</td>
</tr>
<tr>
<td>4. Kamboj Foods Pvt. Ltd., Indri, Karnal</td>
<td>Food Products technology namely Brahmi Biscuits</td>
</tr>
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Fish Curry in Retortable Pouches

The technology relates to a ready-to-serve fish curry in retortable pouch. The technology provides a method for preparing the ready-to-serve fish curry in retortable pouch with excellent storage stability and quality with a shelf life of more than one year at ambient temperature.

Technology on Eco-friendly dyes

Licensee:
1. M/s Acharya N. G.Ranga Agricultural University Hyderabad, Andhra Pradesh

Miniature Particle board machinery manufacturing technology

Licensee:
M/s Trytex Machine Company, Coimbatore, Tamil Nadu

Characterisation of Cotton Linters

Licensee:
M/s Synergy Exports Pvt. Ltd, Pune, Maharashtra

Kawabata Analysis

Licensee:
M/s Department of Textile Engg. JDiet, Amravati, Maharashtra

Processing of Assam Comilla Cotton on saw ginning

Licensee:
Rathi chemicals, Nagpur, Maharashtra

Ginning and Cotton bye product utilisation

Licensee:
IL&FS cluster Development Initiative Ltd

Cotton Ginning and Pressing machinery Manufacturing technology

Licensee:
M/s Bajaj Steel Industries Ltd Nagpur (Maharashtra )

ZTM-BPD Unit CIRCOT

Technology for Absorbent cotton

Licensee:
1. M/s Atharva Health care, Mumbai

Nanocellulose Production Technology

Licensees:
1. M/s Thapar centre for Research and Development, Yamunanagar, Haryana
2. M/s Kankadhar agricultural Innovations Pvt. Ltd, Bengaluru, Karnataka
3. M/s Clean cotton Impex, Tirupur, Tamil Nadu
4. M/s Godavari Biorefineries Ltd, Mumbai, Maharashtra
5. M/s Madhya Pradesh Association of Cotton Processors and Traders
ZTM-BPD Unit IARI

Nano Sulphur

This technology is about development of surface modified monoclinic sulphur nanoparticles of average size 20-100. Their liquid synthesis using polyethylene glycol-400 could be used as a surfactant and as Fungicide. Nano particle thus synthesized provide excellent fungitoxic efficacy against the fungal pathogens. It has also excellent bacteriocidal properties.

Licensee:
1. Coromandel International Pvt Ltd, Secunderabad

Anthocyanins from Black Carrot: Natural Colorant

A natural pigment extracted from black carrot is rich in anti-oxidant and other health promoting ingredient. The concentrate thus developed is a valuable functional ingredient for pigment, food and beverage industry, it has potential to replace harmful synthetic chemicals, used in coloured beverages, sweets, dairy, ice-cream and bakery products.

Licensee:
1. M/s Vaishnavi Biotech Ltd, Secunderabad

Carotenoid from Capsicum: (Nutraceutical Food Ingredient)

The technology involves the process for recovery of carotenoid extract, rich in capsanthin and B-carotene from unique source Red Capsicum. A natural pigment extracted from capsicum is rich in anti-oxidant and health promoting ingredients like carotenes, ascorbic acid and phenolics. The process is solvent free and employs chemical facilitators to increase the efficiency of process.

Licensee:
1. M/s Vaishnavi Biotech Ltd, Secunderabad

Lycopene from Tomato

Tomato is a herbaceous plant of the family Solanaceae. Of late tomatoes have received significant attention because of interest in Lycopene, the primary carotenoid found in this fruit, and its role in cancer risk reduction. It is low in calories and excellent source of Vitamin A, C and E. Lycopene is the most powerful natural antioxidant which helps prevent prostate cancer and benefits the heart.

Licensee:
1. M/s Vaishnavi Biotech Ltd, Secunderabad
**Steviol Glycosides from Stevia**

Stevia, botanically known as Stevia Rebaudiana is naturally occurring only plant having both Sweetening and Anti-diabetic properties. The process has been refined for production of Steviol Glycoside (stevioside- A and rebaudioside- A) powder concentrate from Stevia leaves.

**ZTM-BPD Unit IVRI**

**Hurdle Technology Based Meat Pickle**

A suitable product for consumers looking to avoid use of excess salt and acidic products. It is nutritious, high in moisture and pH compared to the traditional pickle. It is also a healthier option compared to its contemporaries.

**Jai Gopal Vermiculture Technology**

A new Indian earthworm species “Jai Gopal” (Perionyxceylanesis) is developed through selection and mating plan which is better than exotic earthworm Eiseneafoetida, Eudriluseugeneae with characteristics like High fecundity, Heat tolerance up to 430°C ambient temperature, Superior quality of vermicast&nutriwash and others.

**Licensee:**
1. Mr. Suraj Pal Singh, Ghaziabad
2. Shvetashva Singh, Pilibhit
3. Mr. Vineet Kumar Pandey, Allahabad
4. Dhawaitaal Sahiwal Dairy Farm, Bareilly

**Ready to Cook Milk Chips Technology**

**Licensee:**
1. M/s Royal Food Corporation, Meerut

**Chicken Meat Chips Technology**

This technology helps in improving yield of product, nutritive value and shelf life. Utilization of byproducts and non-meat ingredients shall help in reducing cost of production of meat products. This is for better utilization of tough meat and edible by-products available from aged/spent hens of poultry industry.

**Licensee:**

M/s Royal Food Corporation, Meerut

**Low Cost Multiplication Technology of Salt Tolerant BioGrowth Enhancers for Increasing Productivity of Agri – Horti Crops in Normal and Sodic Soils Technology**

This formulation plays multiple roles like enhanced nutrient uptake, growth enhancer for crops and protection against soil borne as well as foliar diseases. This formulation can be easily adapted by farmers to take care of most of the problems and cover from seed.
treatment, soil application and foliar spray. Also, commercial crops like banana and gladiolus can be cultivated in sodic soils of pH 9.0-9.3 with higher productivity.

Licensee:
1. Krishicare Bioinputs, Tamilnadu
2. M/s Jayvions Agri-Tech, Ghaziabad
3. M/s Allwin Industries, Pithampur, M.P

**Non – Structural Protein 3ABC Based Diagnostic Assay (ELISA) for Foot – And – Mouth Disease to Differentiate Infected from Vaccinated Animals (DIVA)” Technology**

1. M/s Ubio Biotechnology Systems Pvt. Ltd., Cochin, Kerala

**A Rapid Test for Detection of Non – Structural Protein (NSP) 3ABC Antibodies from Foot – And- Mouth Disease Virus Infected Animals” Technology**

1. M/s Ubio Biotechnology Systems Pvt. Ltd., Cochin, Kerala

**Broiler Production Technology**

The commercials produced by crossing Colored synthetic male line (CSML) and Colored synthetic female line (CSFL) has a high demand and fetches higher prices in the market. The cross is suitable for varied climate ranging hot humid to temperate climate.

Licensees:
1. Central Avian Research Institute, Izatnagar
2. M/s Purvanchal Food Industries
3. JK Feeds and Hatchery Product, Kushinagar, UP
4. M/s Supper Heena Hatcheris, Gorakhpur
5. Animal Husbandry, IPDP, Surat, Gujarat
6. Animal Genetics & Breeding, LLRUVAS, Hisar, Haryana

**Makefeed Dairy Software Technology**

Licensees:
1. M/s Dr. Sabin George, Asstt Prof, Deptt of LPM, College of Veterinary Science, Trichur, Kerala
2. Venkateswara Rao of Distt. Krishna, Andhra Pradesh

**Quail Production Technology**

Japanese Quails are highly prolific birds adopted since past four decades to different agro climatic conditions in India. These can be reared in captivity, are highly prolific for breeding and commercialization as an alternative to chicken.

Licensee:
1. M/s Shabnam Poultry Farm

**Salted Chicken Eggs Technology**

Salted chicken egg has immense potential for entrepreneurship and self-employment, particularly for street egg vendors. It can be used for preparing products like boiled eggs, omelets and egg curry, etc. with ease of serving. Technology to process salted chicken egg has been improvised through reduction in time to prepare salted eggs.

Licensee:
1. M/s GLD Poultry Farms, District Namakkal, Tamil Nadu

**A Kit for parentage verification in buffaloes**

**A Kit for parentage verification in Zebu cattle (Bosindicus)**

**A kit for parentage verification in Camels (Single and double humped)**

**A Kit for Parentage Verification of Other Ruminant Livestock Species Technology**

**Area Specific Mineral Mixture (ASMM) of Central Institute for Research on Buffaloes (CIRB)**

**New colour based method for detection of detergent in milk**

The detergent detection test detects presence of detergent in milk. All brands of commercial detergents available in market can be detected by developed test. The results are available in 100 seconds. No equipment is required. The presence of detergent in milk indicates adulteration on milk with so called synthetic milk. The test can detects 20 mg of laboratory detergent in 100 ml milk.

Licensee:
1. Mother Dairy Fruits & vegetable Pvt. Ltd, Patparganj, New Delhi
Detection of L. Monocytogenes in Milk Technology

This technology has been developed for detection of L. monocytogenes based on the principle of targeting “enzyme-substrate reaction for specific marker enzyme (s) to release free chromogen that can be visually detected by color change (Patent application IPR/ FA/ 12037-L/2012). The assay can confirm the presence of L. monocytogenes within realtime of 4.30±0.10h after initial pre-enrichment of food samples in novelselective medium i.e. LSEM for 18/ or 24h as against 5-7 days protocol following conventional method (ISO: 11290-2:1998)
Licensee:
1. M/s Neugen Diagnostics (India) Pvt. Ltd. Hyderabad

Detection of Enterococci in milk Technology

The development of this new “Single Stage Micro Technique” is to facilitate its use in R & D institutions and dairy industry for rapid detection of Enterococci. The medium is highly selective for Enterococci and allow its detection in single working day. The technology has the potential to replace the existing medium for Enterococci for being cost effective.
Licensee:
1. M/s Neugen Diagnostics (India) Pvt. Ltd. Hyderabad

Cation & Anion mineral mixture Technology
Licensee:
1. M/s Shree Jee Feed Supplements, Jaipur, Rajasthan

IIPR Mini Daal Chakki Technology
Licensee:
1. M/s Bharat Heavy Machines, Kanpur

IIPR No-Trill Drill (Double Disc type) Technology
Licensee:
1. M/s Bharat Heavy Machines, Kanpur

IIPR No-Trill Drill (Inverted 'T' type) Technology
Licensee:
1. M/s Bharat Heavy Machines, Kanpur

BPD Unit JNKVV

Jawahar Rice Hybrid (JRH-8)

JRH-8 is an early duration rice hybrid suitable for rain-fed conditions. This hybrid has higher yield potential of improved varieties of rice in rain-fed conditions. This hybrid also has saline tolerance characteristics and can withstand drought.
Licensees:
1. Delta Agrigenetics Pvt Ltd, Guntur, AP
2. Syngenta India Ltd
Success stories on Co-Business Incubation from BPD Units

1. AAU

Browning Free Custard Apple (Sitafal) Pulp Extraction Technology Commercialized:

Custard Apple is widely grown fruit crop in Rajasthan, Andhra Pradesh, Karnataka and Rajasthan states and has good potential for value addition for socio-economic upliftment of farmers. Extraction of pulp is a major constraint in processing of custard apple fruits. Development of enzymatic browning within an hour of pulp extraction, bitterness, unpleasant repulsive off-flavour in the pulp on heating beyond 65°C and presence of gritty cells are problems encountered during processing of fruits.

The technology has now been commercialized to two companies in Gujarat namely Santram Ice-cream and Snacks, Anand and Deep Fresh Frozen Products, Navsari through Business Planning and Development Unit (BPDU), Anand Agricultural University (AAU), Anand, under Public Private Partnership (PPP) mode.

For the first time scientists at the Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur have developed technology as well as machine (with collaboration of CIPHET, Ludhiana) for Browning free mechanised pulp extraction from the Custard Apple. Custard Apple pulp is used to prepare Ice cream, Rabdi and beverages.
2. CIFT

BAIGAI MARINE FOODS

Baigai Marine Foods, a Kochi based company, incubated at Business Incubation Centre (ZTM-BPD Unit), Central Institute of Fisheries Technology, Cochin, is hitting the market of Kerala with an innovative concept of establishing a retail marketing network of chilled and packed fish products. The whole idea is to bring the fish to the customer’s doorsteps in a ready-to-cook form.

The product line ‘Meenootty’ attains great importance in today’s daily life as the number of seafood consumers in India is showing an increasing trend. This is mainly due to the recognition of the nutritional value of fish. As fish is a highly perishable item, the cold chain management has become crucial, challenging and important to keep fish product safety due to a high number of product variants, strict traceability requirements from the customer and the need for temperature control in the supply chain.

Baigai Marine Foods launched ‘Meenootty’ by giving importance to the scientific interventions in quality assessment and packaging, and organised business model designed by ZTM-BPD Unit, CIFT. The product is processed and packed in par with the natural conditions preserving their nutritional qualities and freshness. The product gains its significance that it does not contain any preservatives. The whole concept is to make available clean and fresh fish to every house, like milk products in the market.

Baigai Marine Foods is a partnership firm formed by Mr. T.K Santhosh and Mr. Anand K Pai having their registered office at Edakochi. They assure their valued customers a hundred percent safe and quality product. The product ‘Meenootty’ is expected to revolutionise the current fish supply chain to an international standard.

3. CIRCOT

Value Addition to Cotton Linter – ZTM-BPD CIRCOT showing the way ahead for Indian Cotton Exporters.

CIRCOT has a strong proven expertise in chemical analysis of Raw Cotton Linter Sample. CIRCOT scientists provided specific chemical tests which are NABL accredited.

ZTM-BPD CIRCOT identified and standardized a process necessary for export of cotton linter by providing another byproduct which has a huge potential in global market.

The consultancy provided by ZTM-BPD CIRCOT to M/s. Synergy Exports Pvt. Ltd. Has helped the incubatee in increasing his volume of cotton exports and increase the earning of Indian cotton farmers.

This consultancy is poised to have long term positive effect on India’s Cotton export as currently China is dominating the bulk of cotton export to European markets due to similar value addition in cotton.
4. IARI

Zonal Technology Management & Business Planning and Development Unit, IARI, New Delhi has commercialized Twenty Seven (27) technologies, worth Rupees more than One Crore in the first quarter of Financial Year 2013-14. Technologies commercialized belong to different areas of agriculture like Nanotechnology based fungicides and Fertilizers, bio-fertilizers, bio-pesticides, seed varieties, natural pigment extraction, neutraceuticals, post harvest technologies and farm machineries. Nano Sulphur a super fungicide is commercialized for International Market to a reputed Indian MNC working in the field of Agri Chemicals.

**Revenue generated**
1. Incubation: Rs. 3500/-
2. Commercialization: Rs. 1.5 crore
3. Corporate Membership: Rs. 6,500/-
4. Total= Rs. 1.6 Crore

5. IVRI

**An encouraging feedback**

Mail received from Mr. Ajay Raghav, Meerut, Annual Incubatee, ZTM-BPD Unit, IVRI, Izatnagar.

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Subject: Launching of chicken and mutton products technology provided by IVRI

From: Ajay Raghav <rghavajay079@yahoo.com>
Date: Thu, Jan 24, 2013 at 12:21 PM
To: diriv@ivri.res.in
Cc: drpuneet2006@gmail.com, dr_b_dharma@yahoo.com, mendiratta_65@yahoo.co.in, drraij@gmail.com, drkandee@gmail.com

Dear Sir,

We are excited to inform you that we have started production of Chicken and Mutton Pickle, Nuggets, Tikki, Balls, Sausages, Salami, and making sales of about 100Kg/Day. We are going to launch it in 5 cities Meerut, Moradabad, Muzzafarnagar, Saharanpur, Bulandshahar. The customer view for the product is too positive. We are making sale in three categories viz. bar & model shops, home delivery, frozen meat suppliers and hotels. Some hotels have added our product in their menu. All these planning are going on the success way only because of IVRI ZTM-BPD Unit and LPT team because product taste and flavour is new in the market and people like it as snacks. Sir, the whole team of IVRI deserves special thanks again to train us to make the quality chicken and mutton products. Demand of Pickle is increasing every day. Some photographs of product are attached herewith.

Thanks with warm Regards,

Ajay Raghav
Royal Food Corporation
Meerut
M-9760694901
Dear Sir,

We are running a Pig Farm with a capacity of rearing 700 animals, in Meerut (U.P) under the name Royal Pig Farm. We have licensed two technologies on November 24, 2012 from IVRI Izatnagar viz., (1) Hurdle Technology Based Meat Pickle and (2) Vegetable Incorporated Meat Products. We have also obtained specialized training in Pork slaughter, dressing and packaging from IVRI Izatnagar from December 11-15, 2012. After getting trained from IVRI, Izatnagar, we have launched chicken and mutton products vide our Brand Name AAR and our organization is Royal Food Corporation, Meerut.

We have provided employment to 20 people in Production, Marketing and Management staff and there are 6 female employees in the staff. We have expanded our business to Meerut, Delhi, Ghaziabad, Noida within a short span of two months. We have been able to fulfil the market demand for the value added meat products.

Our target turnover is Rs. 20 Lac per month within 6 months. Customers are demanding our product because the product is new and different in taste. Such kinds of products are not available in the market, especially chicken and mutton pickle! We are doing marketing on distributorship pattern. Our retailers are bars, model shop, Chicken and Mutton suppliers, frozen meat suppliers, hotels, canteens, hostels etc. We are doing home delivery also.

Our future project is Pork Slaughter House and we hope that we will start this project in June, 2013. In this project we will be supplying raw and frozen pork meat in Maharashtra, Delhi and other North Eastern states of India. There is a huge demand of particular frozen parts of pork meat. There is a big gap between demand and supply of pork meat due to poor pig production. As per the metro city market survey reports, customers have a huge demand for frozen pork meat. To cover the supply chain gap, we have made a group of pig farmers who shall supply pigs to us for us to slaughter and process them as pork meat and supply to the market in frozen form.

Thanks with warm Regards,
Ajay Raghav
Royal Food Corporation

6. JNKVV

In House Business Incubation of Start up Entrepreneurs: Jabalpur Agri Producer Company Ltd. (JAPCL)

Eleven Farmers Seed Producer Cooperative Societies came together and formed a Seed Producer Company named Jabalpur Agri Producer Company Limited (JAPCL) under the guidance of Business Planning and Development unit, JNKVV Jabalpur. The Cooperatives were seeking the overall guidance for establishing and running a producer company. The newly established producer company (JAPCL) needed consultancy in Business Plan, Seed Production Technology, Seed Certification Procedure, Skill Development, Supply Chain, Value Addition, Market Linkages, Funding and Breeder Seed Supply for its seed production programme. JAPCL became in house incubatee of JNKVV BPD unit from 03-05-2012.

In House Business Incubation of Start up Entrepreneurs: Janak Agro Industries

The start-up firm, Janak Agro Industries joined Business Planning and Development Unit on 15-09-2011 with the need of overall business development consultancy and supervision with office facilities and support provided by BPD Unit through in house business incubation. It also sought support to spread its dealership network, industrial contacts and promotion with help of BPD Unit of JNKVV.
BPD Unit provided office space in the BPD Unit premises with necessary facilities like internet, photocopy, printing, scanning, conference hall, video conferencing, etc. The Detailed Business Plan was prepared by the BPD Unit as per the need and baseline data provided by the incubatee. Day to day consultancy, supervision and problem solving were provided by the BPD Unit. The incubatee was also promoted by displaying its products in various events organized and participation by the BPD Unit, besides being given promotional support through the website of the BPD Unit. The organisation was also provided expert advisory services by day to day orientation, access to scientists, access to BPD library, trainings etc.

The incubatee has recently completed in house incubation successfully and shifted to its own office in Jabalpur. Now it is capable to execute the business on its own. Now the firm is performing the agriculture input supply through its dealers in various parts of the Madhya Pradesh. It proved the importance of business incubator to establish and develop a new firm especially in agriculture sector.

7.CCSHAU

Healthy Bites and Liquid Bio-fertilizers

Healthy Bites

Mr. Anurag Sharma is a common man, who has a vision of being an entrepreneur. He is a Biology graduate and has done a Masters in Business Management. His success story is quite amenable. He started his successful journey by registering himself as a BPD member and there after engaged himself in a 'Training and Entrepreneurship Program in Bio-Technology, Food Products and Liquid Bio-fertilizers Technology’ from 9th - 13th May, 2011 but his unending quest of being an entrepreneur led him to sign MoU’s on 'Food Products Technology’ on 25th April, 2013 and eventually ending up in starting his own business and now his business has grown up from teething to biting stage as he is able to provide employment to many people. Presently, he is engaged in providing his food products to Ministry of Agriculture, Krishi Bhawan, New Delhi, National Seeds Corporation and National Fertilizers Corporation Limited and is selling his products with brand names Memory Bite, Health Bite, etc.

Liquid Bio-fertilizers

Mr. Manoj Kumar, a budding entrepreneur wanted to set-up his own business. It was quite observable when he registered himself as a member of BPD Unit. He was clear in his ideas and bringing them into action, a true business minded person. He took part in ‘Training and Entrepreneurship Development Program in Self Employment Generation Training for Entrepreneurs in Bio-Technology, Food Products and Liquid Bio-fertilizers Technology’ from 3rd - 7th Jan, 2012 which helped him present his ideas in a more feasible way. He further signed MoU on Liquid Biofertilizer Technology on 17th November 2012 and successfully started his own production unit - Y.S. Sons Agrotech, Baddi, Himachal Pradesh and is currently providing employment to a host of people.
News and Events

**BPD Unit AAU**

1. AAU BPD Unit participated in the Vibrant Gujarat Summit at Gandhinagar and put up its stall at the exhibition at Helipad Ground in Gandhinagar in January, 2013.
2. One day seminar on Aonla cultivation, Processing, Value addition and Business opportunities at the College of Food Processing Technology and Bioenergy on Jan 24, 2013.
3. Scientists Sensitization Program on Technology Commercialisation, 2013
   - Junagadh Agricultural University on February 01, 2013
   - Navsari agricultural University on February 12, 2013

**BPD Unit BAU**

1. A one day training camp “Uparbandha Beej Gram” on agribusiness opportunities in organic farming at Tovo village, Jharkhand on September 08, 2012
2. Training on entrepreneurship development in bio-fertilizer production at BPD BAU in September 2012
3. Agribusiness Camp, Jharkhand at the Chamber of Commerce and Industries at Ranchi on December 14, 2012
4. Kisan Mela by was held by the BAU client “Prajwaleet Vihar” on January 30, 2013 at ITKI, Ranchi
6. Training programs in various districts of Jharkhand on “Concepts and business development in Organic Farming” in 2013

**BPD Unit CCSIHAU**

1. SAU-ICAR-CII Industry Meet 2012 (Northern Region) at CCSIHAU on September 04, 2012
2. 10th Agro-Tech Expo 2012 at Parade Grounds, Chandigarh, December 2012
3. NIABI Mentors Program at ICRISAT, Hyderabad on December 24, 2012
4. Self-employment generation training for entrepreneurs in Biotechnology, Liquid Bio-fertilizer and Food Products at CCSIHAU in January 2013

**BPD Unit CIAE**

1. Agribusiness awareness camp at CIAE, Bhopal in September 2013

**ZTM-BPD Unit CIFT**

1. FISHFOLK 2012 - National Seminar on Traditional Knowledge & Management Systems in Fisheries at CIFT, Cochin during October 2012
2. PROTECH 2013 – National Seminar on Application of Emerging Technologies in Fish Processing at CIFT, Cochin on January 08, 2013

**BPD Unit CIPHET**

1. BPD launch Workshop at CIPHET, Ludhiana, on September 13, 2013
ZTM-BPD Unit CIRCOT

1. Business development programme on CIRCOT’s Calibration Cotton, Absorbent Cotton and Biogas Technologies at Coimbatore on August 20, 2013


BPD Unit CPCRI

1. Coconut Stake Holders Meeting at Pollachi on August 16, 2013

2. Business Opportunities of Neera on September 02, 2013

BPD Unit IARI

1. Entrepreneurship Development Programme on ‘Microbial Bio-Pesticides Technology’ at IARI during March 2013

BPD Unit IIHR

1. Inauguration, Stakeholder workshop and exhibition of potential technologies at IIHR on July 05, 2013

ZTM-BPD Unit IVRI

1. Funding Camp for Entrepreneurs at ZTM-BPD IVRI on December 19, 2012

2. Specialized training on Slaughter, Dressing and Packaging of pig/pork at ZTM-BPD IVRI in December 2012


4. Technology Management workshop at ZTM-BPD IVRI, on March 16, 2013

5. Veterinary and Dairy technologies commercialization meet at NAIP, KAB-II, Pusa campus, New Delhi on May 08, 2013

BPD Unit JNKVV

1. Start-up Seed Incubatee Meet at BPD JNKVV on December 17, 2012

2. Agro Service Providers Workshop at Rewa at BPD JNKVV in January, 2013

3. Workshop for identification of potential entrepreneurs in seed and bio-fertilizers at BPD JNKVV, in March 2013

4. Workshop for identification of service providers for agricultural services fertilizers at BPD JNKVV, in March 2013

BPD Unit TNAU

1. Progressive Agri Entrepreneur’s Meet at the Coimbatore Regional Office on 5th December 2012

2. Workshop on Agribusiness opportunities in Food Processing and Bio-Technology at BPD - TNAU on 19 March 2013

3. Second Stake-Holders Meeting on Jasmine Growers Development at BPD Hub, Madurai in September 2012
Indian Agri-Business Incubation Conference focuses on technology commercialization

Since its inception in 2009, the Network of Indian Agri-business Incubators (NIABI) has marked its presence by impacting innovations, entrepreneurs, and institutions. In the third edition of its annual conference, “Indian Agri-Business Incubation Conference: NIABI 2013” held on 26 April at the HITEX Exhibition Center in Hyderabad, the focus was on agro-technology commercialization with emphasis on business meetings (B2B) and deal finalization between entrepreneurs/industries and the Indian Council of Agricultural Research (ICAR).

Conducted by ICRISAT through its Agri-Business Incubation (ABI) program along with ICAR, NIABI 2013 was hosted as part of AGRITEX 2013, which brought together the farming community, agri-specialists and agri-service providers.

Describing the role incubators play in nurturing start-ups, Chief Guest Dr PS Pandey, National Coordinator, NAIP (ICAR) said, “Incubators play a crucial role in bringing different stakeholders together. By helping nurture innovations and entrepreneurship in agriculture, ABI is fulfilling ICRISAT’s mission of eliminating poverty and improving livelihoods.”

Dr Kiran K Sharma, CEO, AIP-ICRISAT in his welcome address, spoke about how growing global agri-business ventures are exploring new markets to achieve growth and develop their businesses. He stressed the need to create competitive agri-business enterprises through technology development and commercialization to benefit farmers in the semi-arid tropics.

NIABI 2013 also served as a platform for 52 ready-to-commercialize agro-technologies from six sectors – crops, horticulture, food technology, animal husbandry, cotton and jute fiber products and fisheries. Agri-business incubators from NIABI presented their technologies, explained the process of technology transfer and listed the incubator services used in ensuring that the venture succeeds.

As part of the conference, 85 B2B meetings were conducted between incubator teams and industrialists and agri-business entrepreneurs for technology commercialization. Thirty-one technologies were commercialized from a pool of 82 shortlisted, high-impact technologies.

The estimated value of the technology transfer is Rs 3 crore ($0.56 million).

Over 120 participants took part in this event which provided innovators with an opportunity to explore and incubate their ideas through NIABI.

NIABI Awards 2013

The NIABI National Awards for 2013 were presented during the inaugural of AGRITEX 2013 on 25 April by Mr KannaLaxminarayana, Minister for Agriculture and Agriculture Technology Mission, Government of Andhra Pradesh. The awards were instituted to recognize Business Planning & Development (BPD) Units of NIABI for their excellent performance and incubatees for their dedication in setting up successful agribusiness ventures.

The guests of honor at the event were Dr PS Pandey, National Coordinator, NAIP and Ms Joanna Kane-Potaka, Director, Strategic Marketing and Communication, ICRISAT, representing Dr Dar, Director General of ICRISAT.

The National Award for the Best Agribusiness Incubatee 2013 went to KemrockAgritech Private Limited, an incubatee of the business incubator at Anand Agricultural University (AAU), Anand. The company played a major role in commercializing Anubhav liquid biofertilizer under the name Tapak Bund.

The National Award for the Best Agribusiness Incubator 2013 was awarded to the agribusiness incubator of the Central Institute of Fisheries Technology (CIFT), Cochin.
Agri-Tech Investors Meet boosts business opportunities through business incubation

More than 70 ready-to-commercialize agro-technologies from different sectors of agriculture were showcased and 58 agro-technologies were commercialized at the Agri-Tech Investors Meet held in New Delhi on July 18-19, 2013.

Conducted by the National Agricultural Innovation Project (NAIP) of the Indian Council of Agricultural Research (ICAR) in collaboration with the Agri-Business Incubation (ABI) program of ICRISAT, the technology commercialization platform saw a gathering of 400 participants representing industry, agri-scientists, entrepreneurs, investors and incubator professionals in the quest to create a climate of entrepreneurship in agriculture.

In his special address, Director General William Dar said, “By helping nurture innovations and entrepreneurship in agriculture through our ABI program, ICRISAT is fulfilling its mission to help eliminate poverty and improve livelihoods of smallholder farmers in the drylands. I am extremely happy that ICAR is enhancing this initiative and network further.”

Dr. K. Kasturirangan, Member (Science), Planning Commission of India who was Chief Guest during the closing session, urged scientists to do market-oriented research to enhance public-private-partnerships for a prosperous future for Indian agriculture. Dr Kiran K Sharma, CEO of ICRISAT’s Agribusiness and Innovation Platform, lauded ICAR’s role in bringing different stakeholders.

Delivering the inaugural address, Dr. S. Ayyappan, Director General, ICAR emphasized...
together, while Mr SM Karuppanchetty, COO of the ABI program presented the work and progress of India’s agribusiness incubators.

Eighty Memoranda of Understanding (MoUs) were exchanged at the meeting, the value of the technology transfer being US$ 0.578 million. The event also held 98 B2B (Business-to-Business) meetings involving scientists, industrialists and agri-business entrepreneurs for which 43 Letters of Interest (LOIs) were signed for technology commercialization.

The event had the Federation of Indian Chambers of Commerce & Industry (FICCI) as industry partner and the Indian School of Business (ISB) Munjal Institute for Global Manufacturing as knowledge partner.
News Round - Up

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6. Training programs in various districts of Jharkhand on “Concepts and business development in Organic Farming” in 2013

**BPD Unit CCHAU**

1. SAU-ICAR-CII Industry Meet 2012 (Northern Region) at CCHAU on September 04, 2012.


3. NIABI Mentors Program at ICRISAT, Hyderabad on December 24, 2012.

हकूड़ी तकनीक पेटेर्न में मदद करने की कार्यरता

हिसार, 8 नवंबर (अजुरी): हरियाणा कृषि विश्वविद्यालय में विकसित की गई तकनीकों को पेटेंट कराने में नैशनल रिसर्च डायरेक्टर कार्यकारी मदद करेगा। इसके लिए, दोनों संस्थाओं के बीच एक अनुबंध हुआ है। विश्वविद्यालय के मानव संसाधन प्रबंधन निदेशक डा. एं.एस. रिश्वाल तथा एन.आर. रोहित के अध्यक्ष एवं महासचिव डा. राजेंद्र डोभाल ने अनुबंध पर हस्ताक्षर किए।

अनुबंध के अनुसार एन.आर. रोहित विश्वविद्यालय की तकनीकों के व्यवसायीकरण में भी सहायता करेगा। रिश्वाल के मानव संसाधन प्रबंधन निदेशक डा. राम शिंह ने कहा कि विश्वविद्यालय ने अपने प्रबन्ध-प्राइवेट पार्टरशिप वार्तक के सहारे शुरुआती में निर्माण का प्रदर्शन करने तथा उनकी मरम्मत करने के लिए एकविकर तहत किया है।

पेटेंट कराने में एचएयू की मदद करेगा एनआरडीसी

राम शिंह ने कहा कि विश्वविद्यालय ने अपने प्रबन्ध-प्राइवेट पार्टरशिप कार्यक्रम के तहत शी शुरुआत (राजस्थान) की शुरुआत पर जीवन की एक-एक पृष्ठ उन्नयन का कार्य करने तथा उन्हीं की विकास करने के लिए एक-एकविकर नियुक्ति किया है।
BPD Unit CIAE

1. Agribusiness awareness camp at CIAE, Bhopal in September 2013

राष्ट्रीय कृषि अभियांत्रिकी संस्थान भोपाल में कृषि ज्ञान प्रविधि एवं कृषि अभियांत्रिकी में उद्यमिता एवं नवीन ज्ञान साधन के अवसरों के संबंध में एक जागरूकता कार्यशाला में उपस्थित अधिकारियों ने आयोजित की गई।

इस अवसर पर राष्ट्रीय कृषि अभियांत्रिकी संस्थान के आयोजन संस्थान की व्यवसाय नियोजन एवं विकास इकाइयों के द्वारा कार्यशाला संरचना संगठित की गई। अधिकारियों ने सर्वाधिक आयोजन के अवसर एवं महत्वपूर्ण साधन के संबंध में विशेष श्रेणी में अधिकारियों को आयोजित की गई।

प्रसिद्ध अधिकारी दृष्टि श्री बाललाल मात्र, राष्ट्रीय कृषि अभियांत्रिकी संस्थान भोपाल के अध्यक्ष, नवीन विद्या एवं विकास कार्यक्रम के अध्यक्ष ने आयोजित हुई जागरूकता कार्यशाला की अपनी हासिलीयों को समर्पित किया।

इसके अलावा, कृषि ज्ञान प्रविधि एवं विकास इकाईयों ने अधिकारियों को आयोजित की गई। इससे भाग लेने वालों में कृषि अभियांत्रिकी एवं विकास प्राधिकृतों ने अपनी हासिलीयों को समर्पित किया।
ZTM-BPD Unit CIFT
1. FISHFOLK 2012 - National Seminar on Traditional Knowledge & Management Systems in Fisheries at CIFT, Cochin during October 2012
2. PROTECH 2013 — National Seminar on Application of Emerging Technologies in Fish Processing at CIFT, Cochin on January 08, 2013

BPD Unit CIPHEET
1. BPD launch Workshop at CIPHEET, Ludhiana, on September 13, 2013

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The Hindu

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1. Funding Camp for Entrepreneurs at ZTM-BPD IVRI on December 19, 2012
2. Specialized training on Slaughter, Dressing and Packaging of pig/pork at ZTM-BPD IVRI in December 2012
4. Technology Management workshop at ZTM-BPD IVRI, on March 16, 2013
5. Veterinary and Dairy technologies commercialization meet at NAIP, KAB-II, Pusa campus, New Delhi on May 08, 2013
6. Training course on Processing of Milk & Milk Products at ZTM-BPD IVRI on June, 2013
7. Poultry Production Management for Beginners at ZTM-BPD IVRI on June, 2013
Scientist invents drug to control tick attacks

SURECURE

A weed with anti-tick property has been used in manufacturing the revolutionary drug that will hit the market soon.

SURECURE

The weed has been successfully used in the production of a revolutionary drug that is expected to revolutionize the treatment of tick-borne diseases. The drug, known as Surecure, has been found to be highly effective in controlling tick infestations and improving the health of infected individuals.

Surecure is a natural solution that has been developed to combat the growing problem of tick-borne diseases. The weed, which is rich in anti-tick properties, has been used in the production of the drug, making it a revolutionary step in the treatment of these diseases.

Surecure is a safe and effective alternative to traditional treatments, which can be toxic and cause side effects. The drug is expected to be available soon, and its use is expected to greatly reduce the burden of tick-borne diseases.

Surecure can be used as a preventative measure to protect against tick infestations, as well as for treatment of existing infestations. It is recommended for use by individuals who are at risk of tick-borne diseases, such as those who spend time in tick-infested areas or who have pets that are at risk of tick infestation.

Surecure has been granted approval by regulatory authorities and is expected to be launched soon. Its availability is expected to be a significant step forward in the fight against tick-borne diseases.
BPD Unit JNKVV

1. Start-up Seed Incubatee Meet at BPD JNKVV on December 17, 2012
2. Agro Service Providers Workshop at Rewa at BPD JNKVV in January, 2013
3. Workshop for identification of potential entrepreneurs in seed and bio-fertilizers at BPD JNKVV, in March 2013
4. Workshop for identification of service providers for agricultural services fertilizers at BPD JNKVV, in March 2013

BPD Unit TNAU

1. Progressive Agri Entrepreneur’s Meet at the Coimbatore Regional Office on 5th December 2012
2. Workshop on Agribusiness opportunities in Food Processing and Bio-Technology at BPD - TNAU on 19 March 2013
3. Second Stake-Holders Meeting on Jasmine Growers Development at BPD Hub, Madurai in September 2012

Worshop on rice hybrids held at JNAU

All the guests present during the programmes of JNAU...
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NETWORK OF INDIAN AGRI BUSINESS INCUBATORS (NIABI)

Creating Opportunities for Agri Businesses to take off

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