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Faculty of Agriculture

Dr. J. C. Jana, Dean,
Faculty of Horticulture

Er. A. K. Das, In-charge,
Faculty of Technology

Dr. B. Roy, Dean,
Students' Welfare

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Director of Research

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Success Story

RKVY Projects

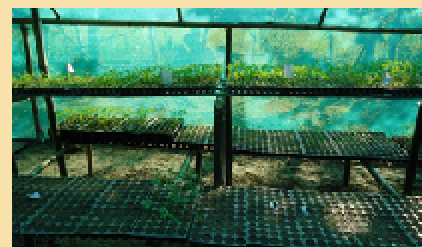
Early harvest of cucumber from bio-primed seedling

Adopting the system of growing bio-primed seedling of cucumber gave advantage of over 25 days in harvest which earned an amount Rs. 25000/- profit from four katha of land.



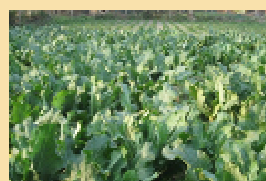
Off-season capsicum through bio-fortified seedling in low cost shed-net house

A low cost shed net house of area 50 sq. m. started yielding in the second fortnight of May. With the yield of about 65kg in late May received premium price for off season capsicum.



Higher return from cauliflower by using compost

Reducing 75% of the chemical fertilizer



doses and supplementing with compost and bio fertilizers resulted early harvest of cauliflower with attractive features for high market value.

Commercial Mushroom spawn production and cultivation

Capacity building of farmers through KVK, Cooch Behar and RKVY project resulted into successful entrepreneurs on mushroom spawn production and cultivation in the target villages.



Organic Paddy Cultivation and use of bio-fortified compost

The Organic Paddy Cultivation and use of bio fortified compost have shown remarkable increase in paddy productivity.

Distinguished Visitors

- ◆ Dr. Arvind Kumar, DDG (Edn.), ICAR
- ◆ Dr. Ashutosh Sarkar, Regional Coordinator, South Asia and China, ICARDA
- ◆ Dr. Kuntala Lahiri-Dutt, Sr. Fellow, Research Environment and Development Group, The Australian National University, Australia.
- ◆ Dr. Md. Enamul Haque, Adjunct Associate Professor, Murdoch University, Australia
- ◆ Dr. Peter Brown & Dr. Toni Darbas, CSIRO Ecosystem Sciences, Australia.

Academician Left (in lien)

- ◆ Dr. P. K. Paul and Dr. C. P. Suresh, the former faculty members under Faculty of Horticulture, UBKV have joined as Associate Professor, NIFTEM and Professor, Horticulture, NEHU during this year respectively.

Vol. 3
No.1
August, 2013



Newsletter

UTTAR BANGA KRISHI VISWAVIDYALAYA

this issue

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Prof. (Dr.) Biswanath Bandyopadhyay takes over as Vice Chancellor, UBKV

Prof. (Dr.) Biswanath Bandyopadhyay took over as Vice Chancellor, UBKV on May 27th, 2013. Prior to shouldering the responsibility of Vice Chancellor, Dr. Bandyopadhyay had been serving as Professor, Agricultural Entomology, Bidhan Chandra Krishi Viswavidyalaya.

From the desk of the Vice Chancellor ...

It is a matter of pride for everyone associated with Uttar Banga Krishi Viswavidyalaya that our alma matter, UBKV legitimately found a place in the list of accredited universities of India. It is further heartening to note that the Faculty of Agriculture under Uttar Banga Krishi Viswavidyalaya was accredited by Indian Council of Agricultural Research in this year. My congratulation to each and everyone of you more particularly to those faculties and researchers whose contribution was instrumental in earning the feat. This is a recognition that has increased our responsibilities many fold - responsibilities not only to out perform our own performances through continued value added contributions but also to climb the remaining steps in the ladder to reach the top at least among agricultural universities. Others will also try to excel and in the process our universities will be better placed, healthy competition to surpass each other will flow and that will result in production of 21st century agricultural graduates and post graduates as well as the kind of

technologies needed for doubling our food production as we walk the century path. Established in the year 2001, the University, Uttar Banga Krishi Viswavidyalaya is contributing to the overall agricultural development of the state, West Bengal by way of developing quality professionals in the niches of Agriculture & Allied Sciences, conducting demand driven research, fine tuning technologies and capacity building of farmers to facilitate socialization, besides providing consultancy and advisory support to the farmers, Government, NGOs & other organizations involved in the agricultural development. It has efficiently dealt and is dealing with the local problems of agricultural production system in different agro-climatic conditions of northern part of West Bengal through research and development. In addition to that the University is focusing to improve the livelihood of farmers and to commercialize farming as a profitable business, besides producing farm graduates after moulding them with self confidence and innovative thinking to meet the national and global needs.

Technology week celebrated

Cooch Behar KVK celebrated Technology Week during Feb 25-Mar 01, 2013 in order to enhance the effectiveness of KVK in pursuit for knowledge empowerment of farmers, extension personnel and other stake holders of Cooch Behar and adjacent districts. A Krishi Mela was also organized during this Technology Week. Around

35,000 farmers, farm women and rural youths visited the Krishimela. As an integral part of Krishimela, a competitive exhibition on fruits, vegetables and flowers was held for the farmers where 63 farmers were awarded for their quality exhibits. Technology Week was also celebrated by the other University KVKs.



Uttar Banga Krishi Viswavidyalaya

Pundibari, Cooch Behar, West Bengal-736165, www.ubkv.org



Educational tour and exposure visit

North India and South India educational tours are conducted for the B.Sc (Ag) Hons students in each year for exposing them to the other nationally renowned agricultural research stations, ICAR and Agricultural Universities.

Visit & Faculty upgradation Lecture

A team comprising of Professor PK Gupta, Emiretus Scientist and Dr. Indu Sharma, Project Director, DWR has visited the centre on 15.03.2013. Dr. S.K.Dutta, DDG (Crop Science) and Dr. P. K. Agarwal, PPVFRA, New Delhi have visited the University on 16.03.2013 in connection with the promotion of wild and domestic plant variety and conservation as well as to monitor the NBPGR trial on Wheat germplasm. Professor Gupta has also delivered a lecture on 'MAS for Crop Improvement: Simple to Complex QTLs' in presence of the university teachers and students.



Prof. A. K. Joshi, Sr. Wheat Breeder, CIMMYT South Asia, Nepal delivered a Lecture on Wheat Breeding Approaches on 27.02.2012.

Prof. S. K. Mitra, Ex. Dean, Faculty of Horticulture, BCKV has delivered a special lecture on "Post Harvest Technology of Tropical Export Produce: recent development and challenges of a future free trade world market" during 21.01.2013

Special Lecture

Swami Atmapriyavanda Hon'ble Vice Chancellor of Vivekananda University, Belur, West Bengal had visited the University and delivered a lecture on Vision of Swami Vivekananda towards Science and Education on 01/04/2013 to motivate the teaching and non-teaching staffs and students for contributing towards the University goal.



The Rural Agricultural Work Experience (RAWE) course is launched as a full semester course with a motto to eradicate the inadequacies in providing required practical training and acquisition of skills by the graduates. In this RAWE programme the students are exposed to realities in farmer's field. The students are groomed through practicing agricultural diagnostic services of soil, water and plants and gaining the acumen of generating appropriate measures. During this year the RAWE programme was conducted in Haripur village of Coochbehar II block of Coochbehar district. The fifty two students were placed into the village to analyse and assess the village level situation to practically orient with the existing agricultural system of the village. One field day was also organized with the help of Netaji Subhash Chandra Farmers' Club where in the farmers, teachers and students interaction was followed to solve the local problem associated with agriculture and the farming community. The RAWE programme comprises of Rural-Agroecosystem Analysis, Department wise field data collection, soil and water testing, Plant pathological and entomological analysis and Hands on Training etc. The Rural Horticultural Work Experience (RHWE) programme was organized at the village Haripur under Madhupur gram panchayat of Coochbehar. The students studied the socio-

economic and livelihood status of rural people, present situation, problems and prospects of different horticultural crops in the village. They interacted with the villagers and suggested different new development in horticulture sector like newly developed varieties, improved production and protection technologies, protected cultivation, organic farming, value addition etc that can be implemented for the upliftment of horticulture sectors of the village. Industrial training programme under RHWE were organized for taking a glimpse on the existing industries in the nearby areas of the University. The students were exposed to eight different horticulture based industries like Poddar Fruits and Vegetables Products Private limited, Torsha Agro-Tech Industries, Solace Herbs Private Limited, Raghav Oil Mill, Garam Valley Agro Private Limited at Chakchaka Industrial Growth centre, Coochbehar, S.K.Chakroborty and Sons, Banson Timber Concern Ply Industry at Patlakhawa, Coochbehar and Teesta Torsa Chemicals Private Limited. at Jagyanarayan Kuthi, Coochbehar. This exposure was aimed to gather skill and entrepreneurial knowledge among the horticultural graduates along with having an idea over the production techniques, marketing channels, economics of production and major constraints of different horticulture based processing units.

Faculty of Agriculture accredited

After realizing the need of site specific technology generation and dissemination for the development of North Bengal, the State Government established a satellite campus, comprising of one agricultural College and Regional Research Station at Pundibari of Cooch Behar district under Bidhan Chandra Krishi Viswavidyalaya in 1979. The Indian Council of Agricultural Research accredited the college of Agriculture at North Bengal Campus in 1986 due to its' excellence in teaching, research and extension. Considering continued backwardness in agricultural development of North Bengal and in spite of its immense potentiality remains untapped as also high correlation between agricultural education and research with extent progress in farming, the State Government had decided to upgrade the North Bengal Campus of BCKV to full-fledged Agricultural University with the Faculty of Agriculture on 2001. The growth of the faculty for last ten years has been phenomenal. Within the short spell, the University amended its rules and regulations relating to U.G. and P.G. studies as well as syllabi to keep conformity with the recommendation of 4th Deans' Committee. In the process of revision of syllabi, emphasis was laid on vocationalization of agriculture education with an aim to make the education programme more realistic to farming community. Considering, the phenomenal achievement of the students in National level entrance examinations and quality of the agricultural education imparted by the erudite and young teachers, the ICAR has again accredited the Faculty of Agriculture this year for next five years.

Award

Name of the Award	Name of the Awardees
CWSS Young Scientist Award-2012	<ul style="list-style-type: none">Dr. Dhiman MukherjeeDr. Bidhan Roy
Bharat Jyoti Award– 2011	<ul style="list-style-type: none">Dr. Dhiman MukherjeeDr. Soumendra Chakraborty
Bharat Shiksha Ratna Award-2012	<ul style="list-style-type: none">Dr. Dhiman Mukherjee
Indira Gandhi Shiromani Award-2011	<ul style="list-style-type: none">Dr. Dhiman Mukherjee
International Gold Star Award-2012	<ul style="list-style-type: none">Dr. Soumendra Chakraborty

Research Project Sanctioned

Title of the Project	Sponsoring Agency	Investigators
Establishment of Rural Bioresource Complex in North Bengal	Department of Biotechnology, Govt. of India	A. K. Chowdhury, D. Sarkar, P.M. Bhattacharya, A. Roy & S. Biswas
Spot blotch of Wheat: Delivering resistant wheat lines and diagnostic and molecular marker for resistance	Crop Research Program, CIMMYT, Mexico	A. K. Chowdhury & P.M. Bhattacharya
Climate resilient integrated farming system in Eastern India, Nepal and Bangladesh	Australian Centre for International Agricultural Research, Australia	A. K. Chowdhury, P.M. Bhattacharya, K. K. Das, K. Pradhan, G. Chakraborty, P.K. Mukherjee & R. Sarkar
Deciphering phytohormone signaling in modulation of resistance to spot blotch disease of wheat	Crop Research Program, CIMMYT, Mexico	A. K. Chowdhury & P.M. Bhattacharya
In-vitro propagation and biofarming of Anthurium and Gerbera and transfer of technology in Terai Dooars region of West Bengal	Department of Biotechnology, Govt. of India	S. S. Gantait, A. Sarkar & S. Maitra

Student accomplishment and activity

Sl. No.	Award/ Examination	2013-14
1.	JRF	11
2.	GATE	5
3.	Rajiv Gandhi Fellowship	7
4.	INSPIRE Fellowship	2
5.	ASPEE	1



A Project entitled "Carbon sequestering status of forest, tea gardens and agroecosystem and other plant based land use system in terai zone of West Bengal" is offered by Science and Engineering Resource Board, Ministry of Science & Technology, Govt. of India to Dr. Gopal Shukla, Dept. of Forestry, UBKV under DST young scientists scheme from August 2012 to September 2015.

- Seed testing laboratory under Mega Seed Project, ICAR was notified during 2012.
- Student Gymnasium was inaugurated by Dr. Arvind Kumar, DDG (Education) in 2012.

Foreign visit

Dr. B. Roy and Dr. S. Das presented papers in 3rd International Seed Conference "Quality seed for food security under changing climate" Bangladesh Agricultural University, Mymensingh, Bangladesh 8-10 February, 2012.

Prof. Apurba Kumar Chowdhury presented a paper as invited speaker in International Conference on "20 years of Conservation Agriculture" in Beijing, China during 19-21st November, 2012.

Dr. Soumen Moitra and Dr. S.S.Gantait, Faculty members, Faculty of Horticulture had participated in International training workshop on "crop seed technology" at China during 2012

Dr. Prateek Madhab Bhattacharya, Faculty of Agriculture has attended a training programme on "Advanced Wheat Improvement Course" at CIMMYT, Mexico from August 01-September 25, 2012.

Model Training Course

Keeping in view of the role of “Conservation Agriculture”, as an effective and potential strategy to increased concerns of widespread depletion of natural resources and environmental quality, a Model Training Course was organized, under the directorship of Dr. B. C. Saha, Prof. & Head, Genetics & Plant Breeding, on “Conservation Agriculture - the way forward” during February 3-10, 2012, with participants of agricultural/horticultural development officers/scientists of different



states/state agricultural universities of the country. The course was attended by 25 participants and was sponsored by the Directorate of Extension, Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India, New Delhi.

Training on Banana fibre extraction, NIR-JAFT at DD KVK

Uttar Banga Krishi Viswavidyalaya is the lead centre of the ICAR funded NAIP Comp-3 Project on “Sustainable Rural Livelihood Empowerment Project for the Northern Disadvantaged districts of West Bengal”. NIR-JAFT is one of the partner centres of this project entrusted with value addition of natural fibres for livelihood development. Dr. Sanjay Debnath, Sr. Scientist, NIRJAFT organized two training programmes for rural youths—one on ‘Techniques of extraction of banana fibres’ (September 24-28, 2012; 15 men participants) and the other on ‘Banana fibre handicrafts’ (March 4-9, 2013; 15 women participants) in collaboration with the Dakshin Dinajpur Krishi Vigyan Kendra.



Seminar, Training, Symposium Organised

National Seminar by Plant Pathology

Plant Pathology Department has organised the Eastern Zonal meeting of society of Mycology and Plant Pathology along with the National Symposium on Biotic and Abiotic Stress in Plants under Change climate scenario on 29-30th November, 2012. During the National Symposium 24 papers on biotic stress and 18 papers on abiotic stress were presented. All the abstracts were published in Journal of Mycology and Plant Pathology in Volume 44(4), 2012.



A lecture was arranged in fond memory of Prof. A. K. Sinha, an eminent scientist. Prof. S. Chaudhuri, BCKV and consultant Department of Biotechnology, Government of India delivered the 1st Prof. A. K. Sinha Memorial Lecture on “Belowground Biodiversity and Productivity Linkages in Agriculture: Nexus between Abiotic and Biotic Stresses” on 29th November 2012 to mark the inauguration of the national symposium.

Training on Cross cutting extension approaches

A short course on “Cross Cutting Extension Approaches with special reference to North Bengal” was conducted during 23rd March 2012 to 29th March 2012 at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar with the aim (a) to arouse interest amongst the participants and sensitize them towards recent extension approaches and establish the importance of owning knowledge based innovative extension ventures, (b) to promote knowledge intensive extension approach (c) to strengthen and develop collaborative linkages with national institutions in this perspective (d) to provide a common platform for designing future course of extension approaches especially in North Bengal under the Course Director Dr. P. Mukhopadhyay, Director of Extension Education, UBKV, Course Co-ordinators Dr.



K. Pradhan, Head, Agricultural Extension, UBKV, Dr. P. K. Pal, Asst. Professor, Agricultural Extension, UBKV and Manotosh Bose, Head, DLLE, NBU.

In this magnificent short course the four resource persons came from different ICAR Institute, Autonomous Institute, SAU and a reputed NGO, viz. Dr. S. Ghosh, Sr. Scientist (Agricultural Extension), Directorate of Water Management (ICAR), Bhubaneswar, Odissa, Dr. (Mrs.) Lakshmi Murthy, Deputy Director (Documentation), National Institute of Agricultural Extension Management (MANAGE), Hyderabad, Andhra Pradesh, Dr. H. K. Kalita, Associate Professor (Extension Education), B. N. College of Agriculture, Assam Agricultural University, Assam and Mr. A. S. Chatterjee, Ex-Director, DRCSC, Kolkata, WB.

State level workshop on “Krishi O Krishaker Manonnayan O Sanirvartar Lakhye Jaybakrishi”

Department of Agronomy, UBKV organized the State level workshop on “Krishi O Krishaker Manonnayan O Sanirvartar Lakhye Jaybakrishi” in collaboration with Paschim Banga Vigyan Mancha from 25-26 March, 2013 inviting different progressive farmers from six districts of North Ben-



gal. The relevancy of organic farming and its different dimensions in present farming, importance of farming in the present context of climate change, vermicompost production technology, the organic based rice cultivation are the different areas of discussion with practical demonstration.

Research Achievement

NAIP on Arsenic in food chain: cause effect and mitigation

1. Organo-arsenic complexation in soil may reduce the arsenic load in plant parts through the stable binding action by the organic fractions
2. The presence of oxy-anions in soils may govern the release characteristics of arsenic in soil
3. The phosphorus content in rice may have the interventions in changing levels and promotions of arsenic species in rice grains.

DBT Project on Phenotyping Mapping population at hotspots and tagging of QTLs

1. Molecular and phenotyping characterization of 800 nos. of Recombinant Inbred Lines (RIL) of wheat have been completed with the help of Directorate of Wheat Research, ICAR, Karnal.

Cereal System Initiative for South Asia

1. 11 numbers of resistant genotype of wheat against spot blotch disease have been identified and are being used for hybridization programme.
2. Location specific genotype of wheat has been identified under boron deficient soil and terminal heat stress situation.

MAP AICRP

- Enhancement of the population of *Swertia chirayita* through improved seed germination by application of growth hormone KNO_3 (3%) and cow urine treated seed.
- Increase the population of *Valeriana jatamansi* through rhizome cutting.
- Causal organism of leaf spot disease pathogen *Alternaria alternata* and *Cladosporium* leaf blight is successfully identified and pathogenicity test is done for confirmation these diseases in *Swertia chirayita*.
- Identification of causal organism *Sclerotinia sclerotiarum* of Stem rot disease

of *Valeriana jatamansi* is successfully done.



- Procurement of *Swertia chirayita* seed can be done at right time with optimum seed moisture under the chilling temperature of (-3⁰ C)

NAIP on Sustainable Rural Livelihood Empowerment Project for Northern disadvantaged districts of West Bengal

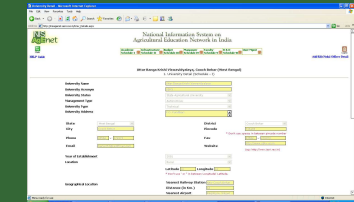
The Consortium mode NAIP Component-3 project entitled “Sustainable Rural Livelihood Empowerment Project for Northern disadvantaged districts of West Bengal” is implemented by Uttar Banga Krishi Viswavidyalaya during 2008 as lead centre under the leadership of Prof. S. C. Sarker with four core partners namely BCKV, NBU, NIRJAFT, Eco-development Consultancy Ltd. and four associate partners like CIMMYT, Department of Fishery, Govt. of West Bengal, ZCU, ICAR and ONS Online with an aim to develop sustainable rural livelihood models for the empowerment of the local people in four clusters of Uttar Dinajpur, Dakshin Dinajpur, Malda and Murshidabad districts. The five identified alternative livelihood models are:

- Small and marginal land holders: RCT-Semi intensive fishery - Pond dyke based horticulture cum fodder cultivation.
- Sub-marginal cum wage labourers: Vegetable nursery and off season vegetable production in low cost poly house - Bio input production
- Wage labourers/ artisans with home stead land: Improved handloom - Jute yarn making—Goatery-Multi tier horticulture (MTH)
- Single women led family : Goatery-Poultry-Short gestation orchard crops
- SHG based interventions : Bio-input production-Poultry/duckery— MTH-Jute handicrafts.



NISAGENET

The Institutional project National Information System on Agricultural Education Network



in India was started during 2005 under the leadership of Prof. S. C. Sarker as Nodal Officer. The information database regarding University education, research and extension system, human resource was generated and incorporated in the online portal of central NISAGENET website.

NOVOD Project

Identified oil content of different germplasms of *Jatropha curcas*

139 numbers of germplasms of *Jatropha* were sent to NOVOD Board for oil estimation. Out of the total 139, the maximum oil content percentage is found in the following accessions as mentioned herewith- UBKV-J/23 (38.59 %), UBKV-J/3 (38.19%), UBKV-J/4 (36.0%), UBKV-J/98 (35.99%), UBKV-J/80 (35.01%), UBKV-J/5 (34.56%), UBKV-J/22 (34.49%), UBKV-J/13 (33.13%), UBKV-J/81 (32.84%), UBKV-J/42 (32.83%), UBKV-J/17 (32.81%), UBKV-J/99 (32.55%), UBKV-J/87 (32.36%), UBKV-J/27 (32.07%), UBKV-J/24 (32.04%). Ten (10) superior varieties of *J. curcas* of different centres of India are being raised as National Trial-IV. Out of these accessions, TNAU contain maximum oil percentage (34.08%) followed by HAUJ-037 (33.53%) and PJA-1 (31.42%).



Innovation documented

Dakshin Dinajpur Krishi Vigyan Kendra has documented a farm machinery innovation of mini combine harvester by Sk. Sirajul Islam Shah of Vill.-Vior, P.O.- Vikahar, P.S.-Tapan, Dist.- Dakshin Dinajpur. He developed a mini combine harvester using his old power tiller, costing about Rs. 2.30 lakhs which is suitable for fragmented small holdings and harvesting paddy, wheat and mustard crops with a capacity of about 33 decimal per



hour. Sk. Sirajul Islam Shah participated in the Zonal Farm Innovators' Meet organized by the Zonal Project Directorate, Zone-II, ICAR.

Recognition

Mr. Bishnu Chakraborty of Vill.-Powrahar, Block-Hilli, Dakshin Dinajpur, a progressive farmer associated with the Dakshin Dinajpur Krishi Vigyan Kendra was conferred the 'Krishi Ratna' award by the Govt. of West Bengal on March 14, 2013 for his outstanding contribution in technology adoption and dissemination and overall agricultural development of the area.



Extension outreach

Cooch Behar KVK has taken up a considerable area under village seed multiplication programme through farmers' participation. Three farmers' club named Harimandir Gunjara Farmers' Club of Dhangdhin-



guri, Alor Dishari Farmers' Club of Dhaloguri and Khagribari Farmers' Club of Khagribari are engaged with this programme since last two years. This year also, foundation seeds of paddy have been distributed among the

farmers of those farmers' club



for its multiplication into certified seeds at an area of 10.12 hectare.

In order to promote pulse cultivation in the district, Cooch Behar KVK organized a Farmers' Field School (FFS)



on Improved Packages of Pulse Cultivation at Dhaloguri Village under Ambari Gram

A group of 27 farmers from Goalpara, Assam visited UBKV during March 14



-17, 2013. The exposure visit

Malda KVK in collaboration with Dept. of Fishery, GOWB, Malda celebrated National Fish Farmers' Day on 10th July, 2012 to mark the discovery of induced breeding of fish. Dr. K.H. Alikunhi and Dr. Hiralal Choudhury accomplished this

A two-day workshop for KVK personnel on "Innovative approaches in present day agriculture" was organized by Directorate of Extension Education during March 23-24, 2013. Altogether 43 KVK personnel from differ-

Panchayet during November 15, 2012 – March 30, 2013. During this FFS, the participants were exposed to various steps of pulse cultivation, viz., soil correction through liming, *Rhizobium* inoculation, line sowing, foliar nutrition, plant protection measures against soil borne pathogens etc. in the form of both theory and practical classes. 30 farmers and farmwomen participated and successfully

was arranged by Cooch Behar KVK with the financial support from ATMA, Goalpara, Assam. The objective of the tour programme was to get acquainted with the modern agricultural technologies. A special tour program was arranged for the group to visit KVK adopted village Dhaloguri. Another group of 31 farmers from Kokrajhar,



ent KVKs of UBKV attended the programme. In this workshop, a special interaction session was arranged where Shri. N.C. Samanta, ADA (Gen), GOWB, Writers Building and Shri. Rajat Pal, Additional Director of Agriculture, North

completed the school. The



successful conduction of FFS helped them to get acquainted with the various scientific steps for pulse production.

Assam also visited the University under the sponsorship



of ATMA, Kokrajhar, Assam.

feet while working at Quila Fish Farm near Cuttack on 10th July, 1957. On this occasion 75 leading fish-farmers of Malda district were exposed to a special training programme on "Breeding and Culture of major Indian carps and Integrated Fish Farming".

Bengal Region interacted with the participants.



Extension outreach

Jatropha

Farmers Training Programme on 2013 at Bansraja Micro Watershed area, "Integrated Development of Tree Borne Oilseed in Waste land/ degraded land" sponsored by NOVOD Board, Ministry of Agriculture, Govt of India, Gurgaon during 2012-13 to the Uttar Banga Krishi Vishwavidyalaya. The farmers training programme was organized by Dr. Amarendra Nath Dey, Principal Investigator in 5 places viz on 5 – 6th March,



on 2013 at Bansraja Micro Watershed area, Tufanganj, on 7 -8th March, 2013 at Experimental research Station, Sukna (ICFRE), on 17-18th March 2013 at Kunjanagar Eco Park, Falakata, on 22-23rd March, 2013 at Malda Krishi Vigyan Kendra, Malda and on 25-26th March, 2013 at Faculty of Horticulture, Pundibari having 50 farmers for each centre.

Entrepreneurship Development

Farmer's Participatory seed production:

This University started Farmers' Participatory Seed Production programme under the leadership of the

Department of Genetics and Plant Breeding, Regional Research Station, Terai Zone, Pundibari since 2007. Initially, leading farmers were selected for seed production in two villages, namely Khagrikabari

(Unishbisha) and Petlanepra (Choto Salbari, Sitalkuchi) of Cooch Behar district. The farmers of Sitalkuchi and Unishbisha who involve in seed production under the guid-



ance of UBKV were brought under one umbrella forming a Self Help Group - **Suphala Beej Swanirbhar Gosthi** (SBSG) in June

2008, and registered under West Bengal Society Registration Act, 1961 in 2012. This SBSG is producing Certified and Foundation seeds of different varieties of rice, potato, pulses and mustard. The SBSG sell the

seeds in the brand name of **Shyamali**. This programme has been recognized by DRR, Hyderabad.

Agro-met Advisory Service

Agro-met Advisory Service with the help of the project "Integrated Agro-met Advisory Services" is provided to the farmers through newspaper and other media by this University.

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কৃষক	কৃষকের নাম	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
১	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
২	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
৩	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
৪	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
৫	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
৬	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
৭	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
৮	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
৯	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য
১০	কৃষক	কৃষকের ঠিকানা	কৃষকের বয়স	কৃষকের শিক্ষা	কৃষকের জমির পরিমাণ	কৃষকের জমির ধরন	কৃষকের জমির উৎপাদন	কৃষকের জমির মূল্য	কৃষকের জমির মূল্য

Farmer's training on Scaling up of water productivity

The training programme under the project "Scaling up of Water Productivity in Agriculture for Livelihoods through Teaching cum Demonstration" imparted training to the farmers of North Bengal for sensitizing and motivating the farmers to scale up the water productivity in agriculture for promoting their livelihood.



Scientific Instrument developed

A pedal-cum-power operated paddy thresher and a



pan evaporimeter have been



developed in the Faculty of Technology by the 4th year B.Tech students.

Roof top rain water harvesting and utilization model, developed by the B. Tech students, Kishor Biswas and Soumen Ghosh under the guidance of Dr. Rupak Sarkar in Faculty of Technology secured third prize at the district level science model competition in Cooch Behar organized by the Youth Services Department, Govt. of West Bengal.

Recognition

Mr. Sunil Chandra Das has received "Krishak Ratna" award from Govt. of West Bengal as a promising farmer in Alipurduar Block-II under Jalpaiguri District. He is actively involved in the RKVY funded project on "Promotion of Conservation Agriculture in the form of zero-tilled rice, zero-tilled wheat and no-tilled dibbling maize.