



KRUSHI VISHWA

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सं गच्छध्वं सं वदध्वं
सं वो मनांसि जानताम् ।

O my men ! you should all move and work together in a co-operative spirit; your mutual conversation should always be pleasant and courteous; your minds should be full of high thoughts.

Rig Veda 10/161/2.

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"With farmers in focus, farming technology as their friend, and food processing and marketing as partners, is indeed the second green revolution."

Dr. A. P. Abdul Kalam,

Hon. President of India

"A candle loses nothing by lighting another candle."

- Anonymous

KRUSHI MAHOTSAB-2006



Looking at the grand success of Krushi Mahotsav-2005 in bringing scientists closer to farmers and its massive impact on improvement in agricultural scenario of Gujarat State, Krushi Mahotsav - 2006 (30th April - 29th May, 2006) launched from Lakhtar (Dist. Surendranagar). Hon'ble Chief Minister, Shri Narendra Modi, and Hon'ble Minister for Agriculture and Co-operation Shri Bhupendrasinh Chudasama inaugurated the programme by addressing huge audience. They appreciated the farmers for adoption of newer agricultural techniques explained and demonstrated by experts & scientists.

Junagadh Agricultural University produced a Video CD on "Krushi Gito" an effective tool to convey modern techniques and knowledge of Agriculture embedded in traditional lyrics and Gujarati literature. The CD was displayed in 18018 villages of Gujarat.

The scientists of JAU visited each villages of seven districts of Saurashtra region. 89753 farmers attended "Khedut Shibir" at 24 places and 43650 farmers visited Agricultural Exhibition held at 8 places during Mahotsava.

The State level seminar on "Food processing and Groundnut" was organized at Rajkot. The agricultural experts, industrialists, progressive farmers, exporters, processors and Govt. officials of respective departments participated in the seminar. Shri Bhupendrasinh Chudasama inaugurated and blessed the seminar. The scientists shared the knowledge on scope and techniques of value addition in important crops of Gujarat.

The Krushi Mahotsav-2006 added one more feather in crown of agricultural development of the state.

Dr. B. K. Kikani : Nominated as Vice Chancellor for another term

WORK IS MORE AUDIBLE THAN WORDS



8th September, 2006 : JAU welcomes Dr. B. K. Kikani with warmth and pledged to give full support in JAU's commitment to welfare of farmers and taking agriculture to higher standards of excellence in teaching, research and extension activities.

Annual Group Meeting of Pearl Millet Research Workers

A National Annual Group Meeting of Pearl Millet Research Workers under the All India Coordinated Pearl Millet Improvement Project (ICAR), Mandor, Jodhpur was organized at Junagadh Agricultural University, Junagadh during April 11-13, 2006.



The Inaugural function of National Annual Group Meeting was held on April, 12, 2006. The function was presided over by Dr. B.K.Kikani, Vice-Chancellor, Junagadh Agricultural University. Shri Purushottambhai Rupala, Ex. Minister of Agriculture, Gujarat State, was the Chief Guest and Inaugurator of the function. The meeting focused on increasing grain as well as fodder productivity of pearl millet and also on different aspects of value addition. Dr. C. J. Dangaria, Research Scientist (Pearl Millet), was Organizing Secretary of this event.

Research Recommendations

● **Brinjal** : Junagadh Brinjal Green Round -1

● A high yielding brinjal variety named JBGR-1 has been recommended for release for Saurashtra and Middle Gujarat region growing brinjal crop during late kharif and rabi seasons.



The fruits are medium to large size with round shape, and contain higher T.S.S., protein, phenol and total soluble sugars as compared to the check variety Green Round Local.

● The farmers of the coastal area of South Saurashtra Agro Climatic Zone -VII growing **groundnut** crop are advised to apply half dose of fertilizer i.e. 6.25 - 12.50- 0.00 in the form of urea and rock phosphate with seed inoculation of bacterium EBJ-3 at the rate of 25 ml. per kg seed of groundnut to obtain higher net return.

● The farmers of the coastal area of South Saurashtra Agro Climatic Zone -VII growing **bajra** crop are advised to apply half i.e. 40-20-00 dose of fertilizer in the form of urea and rock phosphate with seed inoculation of bacterium EBKH-1 at the rate of 25 ml. per kg seed of bajra to obtain higher net return.

● The farmers of South Saurashtra Agro Climatic Zone growing **brinjal** in summer season are advised to irrigate the crop with drip irrigation system at 1.0 PEF (Pan Evaporation Fraction) laying laterals at 90 cm. distance in each row and drippers of 4.0 litres per hour at 60 cm. distance on each lateral, that is operating the system at an alternate day with a pressure of 1.2 kg/cm² (total 56 irrigations) for getting more net realization with higher water use efficiency. Farmers are also advised to apply wheat straw mulch @ 5 t/ha for getting more net realization.

● The Farmers of South Saurashtra Agro Climatic Zone growing **coconut** hybrid (D x T) are advised to apply 270 gm. urea per plant at monthly intervals through drip irrigation. The drip system should be operated for 1 hour and 30 minutes daily during October to February and for 2 hours and 30 minutes from March onwards with 4 drippers, each having 8 liters discharge per

hour, keeping drippers 1 m. away from the trunk of palm to save 46.82 per cent irrigation water without affecting yield.

● The farmers of South Saurashtra Agro climatic Zone growing **coriander** are advised to irrigate the crop with mini sprinkler at 0.8 PEF (Pan Evaporation Fraction) with laying the laterals at 1.8 m. distance in paired row and sprinkler of 35 litres per hour at 2.5 m. distance on each lateral, and operating the system at an alternate day with a pressure of 1.2 kg/cm² (total 32 irrigations) for getting higher net realization.

● Wheat straw incorporated in soil @ 5 t/ha before sowing was found comparable to pre-emergence application of Fluchloralin @ 0.9 kg/ha for weed management in kharif **groundnut** in the South Saurashtra Agro Climatic Zone.

● Two low volume sprays of Endosulfan 0.21 % (Endosulfan 1.2 l. in 200 l. water/ha) through power sprayer (ICBR 1: 7.66) twice, starting from 50 % flowering and second at 15 days after first spray are recommended for effective and economic control of **gram pod borer in chickpea**.

● The crop rotation of chickpea after sorghum or chickpea after bajra and application of castor cake 500 kg/ha at the time of sowing with seed treatment of Carbendazim 1 g and Thirum 2 g/kg seed or castor cake 500 kg/ha at the time of sowing with seed treatment of Tebuconazole 3 g/kg seed was found beneficial for effective management of **wilt of chickpea**.

● The **engine operated portable post hole digger** is useful for making the pits for erecting fencing poles, plantation for orchard and forest saplings etc. This machine makes about 25 to 35 pits of 15 cms. diameter and 45 cms. depth in one hour. The cost (Rs. 2.16) of making one pit by this machine is lower than manual digging (Rs. 5.60) and tractor operated digger (Rs. 4.10). Looking to the performance and application, this machine is recommended for farmers, manufacturers and other users.

● The farmers of North Saurashtra Agro- climatic Zone growing **hybrid cotton - 8** in kharif season under dry farming condition are advised to adopt 30 cm deep tillage every year for the highest seed cotton yield, net return and moisture conservation. They are also advised to apply FYM @ 10 t/ha for higher yield, net return and moisture conservation. Recommended dose (80-00-00 NPK kg/ha) of fertilizer should be applied to the crop.

● The farmers of North Saurashtra Agro climatic zone growing grasses are advised to grow **clitoria** (Clitoria ternatea) with marvel grasses (zinzvo) (Dichthium annulatum) in 1:2 row for obtaining economically maximum green biomass and dry matter yield under rainfed condition.

● Varietal Identification Committee has identified the bread wheat variety **GW 366** for the cultivation in Central Zone comprising Gujarat, Madhya Pradesh, Chhatisgadh, Southern areas of Rajasthan and Budel khand areas of Uttar Pradesh under timely sown irrigated conditions.



The proposed variety GW 366 yielded an average of 12.11, 12.03, 11.27, 9.86, 6.44, 6.10 and 5.94 per cent higher grain yield than the check varieties MACS 1496, Lok-1, GW 496, GW 190, HI 8498, GW 273 and GW 322 respectively. The special features of GW 366 include stable grain yield, rust resistance, resistance to lodging & shattering and seeds are highly lustrous and bold with good quality.

● The P.G. student, Miss Anita Mungale under the guidance of Prof. J.B. Savani, Professor and Head, Farm Machinery and Power Department designed Rotary Power Weeder cum Interculturing unit. The unit is operated with 4 horsepower kerosene run engine and found effective in



orchard as well as field crops for weeding cum interculturing work. The field capacity in cotton crop sown at 120 cm is about one acre per hour, whereas 10-12 Chicku tress basins (8 years old) could be tilled in an hour. Dr. B.K. Kikani, Vice Chancellor and Dr. N.C. Patel, Dean, College of Agril. Engg. and Tech. appreciated the working of the machine during its testing.

● Bajra (Pearl Millet) Hybrids GHB - 715 and GHB - 719 were identified for release at national level for cultivation in scanty rainfall areas of Rajasthan, Gujarat and Haryana (A1 zone). These hybrids are highly tolerant to drought condition.



Students Activities

The volunteers of National Service Scheme, College of Agriculture and Horticulture School, Junagadh participated in a Shramyagna at Vagheshwari lake, Junagadh on 25th June, 2006. Shri Ratibhai Sureja, Hon'ble State Minister of Irrigation, Government of Gujarat and Dr. B.K. Kikani, Vice Chancellor attended the programme and motivated the students.



A seminar was organized on "Agricultural Studies Abroad" in which Bittrack consultants Pvt. Ltd. provided information.

Language laboratory was established to acquaint students with spoken English, TOEFL & IELTS exams.

Sports

Inter collegiate competitions of Volley ball and Badminton as well as Table Tennis were successfully organized on 2nd September and 30th September, 2006 respectively.



Debate and Essay

Inter collegiate competitions for debate, extempo and essay writing were organized on 30th September, 2006

Student Placement Activity

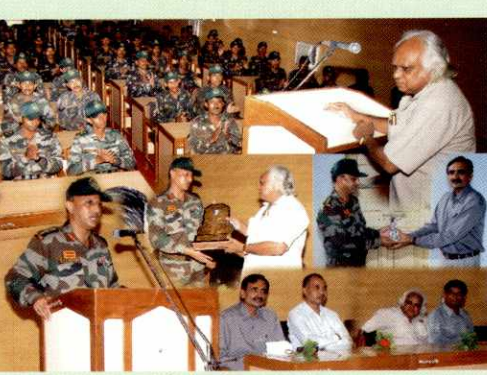
Jain Irrigation System Ltd. Jalgaon and Netafim India Irrigation Pvt. Ltd., Vadodara recruited 9 and 13 B.Tech (Agril. Engg.) students ,respectively as Field Officer through campus interview.

The campus interview was organized by Dena Bank for the post of Agricultural Officer and 35 students of College of Agriculture, Junagadh appeared for interview.

The Students Placement Cell, College of Agriculture, Junagadh approached various agricultural based firms like Mahyco, Om Irrigation, Adani Group, Godrej, Ameer Irrigation etc. for selection of the students in their firms.

Special Events

- A welcome programme to motivate the cycle rally of soldier of 18, Rajputana Rifle was arranged on 24th August 2006.



- The students and staff members of the university enthusiastically participated in mass singing of our national song 'Vande Maataram' on 7th September, 2006.



- A special talk on 'Gauvigyan Adhunik Paripexyama' (Medicinal values of urine, milk, ghee, gobar of cow in modern age) was delivered by Dr. Hitesh Jani a faculty member of Ayurved University, Jamnagar on 30th August, 2006.



- A group of scientists & teachers of JAU participated in a spiritual programme "Sahaj Rajyog and Self Management" organized at Prajapita Bhrahma Kumari Ishariya Vishavidhyalay, Gyan Sarovar, Mount Abu during August 24-28, 2006.

Recognition and Appreciation

- Dr. A. M. Parakhia, Director of Extension Education, JAU, Junagadh has received AMAI Crop Protection Research award 2004-05. It was conferred by Agrochemicals Manufactures Association of India for his outstanding research work on control of stem rot and collar rot of groundnut, late blight disease of tomato and powdery mildew and anthracnose of mango.



Hon'ble Minister of Agriculture Shri Bhupendrasingh Chudasama has given the award during the special function in Ahmedabad on 26th April, 2006.

- Dr. C. J. Dangaria, Research Scientist (Pearl Millet), Main Pearl Millet Research Station, Jamanagr bestowed with The Best Scientist Award by Hon. Ex. Minister of Agriculture, Gujarat State, Shri Purushottambhai Rupala with the memento and certificate of appreciation for his significant contribution in improvement of pearl millet.



- Dr. R.L. Shiyani received " Hari Ohm Ashram Prerit Shri Bhaikaka Inter University Smarak Trust Award" for the best research paper in Agriculture Science.
- Dr. H. L. Dhaduk, Assistant Research Scientist was sponsored by Rotary International Club for visit of Germany (27th May to 8th July, 2006) under Group study exchange Programme.
- Dr. J. V. Polara, Associate Professor, elected as Member of the "Executive Council" of Journal of the Indian Society of Coastal Agricultural Research being published from Canning Town, West Bengal.
- Mr. Manoj Sahoo, M.Sc.(Agri.) student of College of Agriculture, JAU, Junagadh who ranked 34 in Indian Administrative Service (IAS) exams with meritorious academic excellence in his Post Graduate Studies.

Research Project Sanctioned :

Sr. No.	Project Title	Investigators	Project Amount (Rs. in Lacs)
1	The development Programme on Spices	Dr. K.V. Kalathiya, Research Scientist (Garlic & Onion)	11.4
2	Establishment of Tissue Culture Laboratory	Shri K.H. Dabhi, Asstt Ressearch Scientist Dr. V.P. Chovatia, Professor & Head, Dept. of Botany	50.00
3	Establishment of Small Nursery	Dr. V.P. Chovatia, Professor & Head, Dept. of Botany	03.00
4	Establishment of WTO Cell	Dr. R.L. Shiyani, Professor & Head, Dept. of Agril. Economics	27.49
5	Establishment of Food Testing Laboratory	Dr. B.A. Golakiya, Professor and Head Dept. of Bio-chemistry	474.44
6	Monitoring and Evaluation of usage of spent wash (Distillery effluent) in agriculture.	Dr. N.M. Zalawadia, Professor (P), Agril. Chem. & Soil science.	3.30

Extension Activities

❖ As a part of tourism year 2006, a Cattle Show was organized at Cattle Breeding Farm, JAU, Junagadh in June, 2006. Pure breed Gir cows were exhibited and awarded with first, second and third prize for their breed characters. Dr. B.K. Kikani, Vice Chancellor visited the exhibition and blessed the occasion.

❖ A farmers' workshop was organized on jatropha (Ratanjyot) at village Sarsai of Junagadh district in June, 2006 sponsored by NOVARD, Gurgaon (Haryana) and JAU, Junagadh, in which about 461 farmers participated. Dr. B.K. Kikani, Vice Chancellor inaugurated the workshop and explained the importance of this crop as an alternate fuel. Dr. R.L. Savaliya, Dr. K.L. Dobariya and Dr. A.V. Barad guided the farmers about cultivation of this crop.

❖ Sardar Smruti Kendra organized Eight Training Programmes for farmers (each of three days) and educated farmers and farm women on modern agriculture, animal husbandry and other related subject.

Agriculture Fair

Department of Agril. Chemistry and Farm Advisory Service Scheme, JAU, Junagadh participated in *Kharash Jagruti Melo*, organized by Aga Khan Rural Support Program, Gadu, Mangrol, where 1250 visitors took benefit of the fair and were pleased to see the latest agricultural technology and implements exhibited.

Training programme

A training on "Artificial Insemination" was organized at Cattle Breeding Farm, JAU, Junagadh for Gopal Mitra of Narmada district during 5th June to 4th July, 2006. It was sponsored by Gujarat Livestock Development Board, Gandhinagar.

Seminar :

● About 150 delegates across the country participated and discussed various issues during a National Seminar on "Millets as Food, Fodder and Feed Energy" organized at Junagadh Agricultural University, Junagadh in association with Society of Millets Research and All India Coordinated Pearl Millet Improvement Project (ICAR), Jodhpur.

The inaugural function of the Seminar held on 10th April, 2006. The function was presided over by Dr. B.K. Kikani, Vice Chancellor. The Mayor of Junagadh Municipal Corporation and MLA, Shri Mahendrabhai Mashru was the chief guest and inaugurator of the seminar. Dr. S.N. Shukla, ADG (CS), New Delhi & Dr. D. B. Kuchhadia, Director of Research and Dean, P.G. Studies, were the guest of honour in the inaugural function. Dr. I.S. Khairwal, Project Coordinator (Pearl Millet), Mandor, Jodhpur and Dr. C. J. Dangaria, Research Scientist (Pearl Millet), Jamnagar were the Organizing Secretaries of this function.

● The State level seminar on 'Food Processing and Groundnut' organized by Junagadh Agril. University & Collectorate, Rajkot on May 22, 2006.



BOOK-POST

To,

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Participation :

Dr. K.B. Jadeja, Director of Student's Welfare and Programme Co-ordinator (NSS) attended YUVA (Youth United for Victory on AIDS) programme on June 27, 2006.

The Scientists of Department of Horticulture, JAU attended the seminar 'Bagayat ek Udhyog' organized by Gujarat Bagayat Parisad, Surat on April 8, 2006.

"It is better to lit the candle than cursing the darkness."

"Live in the present but plan the future !."

Anonymous