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# Vice-Chancellor's Desk

Horticulture sector encompasses a wide range of diversified crops namely fruits, vegetables and tuber crops, ornamentals, medicinal, aromatic, spices and plantation crops. It has emerged as an important sector for diversification of agriculture and plays a key role in economic development of the country. Presently, it has established its creditability in improving income through increasing productivity, generating employment and enhancing export. India now stands as the second largest producer of fruits and vegetables. With an increase in production by 30 per cent in the last five years, the earlier seasonal availability of fruits and vegetables has now extended all the year round.



Gujarat has achieved considerable growth in horticulture during last five years because of serious efforts made by the State

Government. The area and production of horticulture crop was 5.89 lakh ha and 59.49 lakh tons in 1998-1999, which increased up to 14.04 lakh ha and 180.16 lakh tons, respectively in 2010-11. State has strong cooperative credit and marketing structure, along with 265 cold storages. About 42 fruit and vegetable cooperative marketing societies and 197 Agriculture Produce Market Committees (APMCs) dealing with selling and buying of horticulture produce in the State. Agriculture Export Zone for dehydrated onion and Zone for fruits and vegetables. has been established, which will be the back bone to boost horticultural development in the state. There is an ample potential to export various horticultural products such as fresh fruits. vegetables and spices to other countries. Gujarat is one of the major banana growing states and ranks second in export of bananas in India.

Despite of many unfavorable conditions, like problematic soil, water scarcity and drought prone areas, etc. rate of development of horticulture sector is very fast in Saurashtra region. At present, the total area under horticultural crops in Saurashtra comprises 5.29 lakh hectares with a production of 48.05 lakh tones. Junagadh Agricultural University, Junagadh, developed a total of 123 technologies including varieties and hybrids in various horticultural crops after its establishment in 2005. Out of them, 42 technologies are developed for fruit crops, 58 for vegetables, 6 for flower crops, and 17 for seed spices. Kesar mango of Junagadh region was registered under Geographical Indication (GI) Act and received registration No. 185 in November, 2011 as 'GIR KESAR MANGO'.

Hi-tech horticulture technologies are available now with successful resistance to biotic and abiotic stresses in different crops. The need of hour is to ensure creation of environment conducive to promote healthy growth of the horticulture sector through proactive involvement of different stakeholders. Diversification of agriculture through horticulture, innovative farming is essential to improve soil health, water-table, cropping intensity in addition to meeting challenges of climate change and enhancing profitability. But at the same time, unstable produce rates, no support price and crop insurance to horticulturists for damaged or low production during natural calamities are the points to concern may be deliberated. Besides that, provision of at least 75 per cent subsidy should be made on fencing the orchards with barbed wire.

However, challenges in horticulture sector also present various opportunities. According to National Horticulture Mission (NHM), there has been a growing interest in horticulture in the last few years from various states and this is reflected in the massive demand for funding. Out of the 140 million farmers in the country, horticulture engages about 20 million and it also contributes 25-30 per cent to farm gross domestic product, it holds a dominant position in India's farm policy.

### SPECIAL PROGRAMME

# Participation of JAU in Vibrant Gujarat Global Agriculture Summit (VGGAS)-2013 (9-10 September) at Gandhinagar.

Vibrant Gujarat Global Agriculture Summit-2013 was mega event for farmers of India. JAU participated in events of summit.



Shri Ganpatbhai Vasava, Minister for Forest & Environment, Dr NC Patel, Hon'ble VC, JAU, Shri Rajiv Modi and other dignitaries on dais of a Seminar during VGGAS-2013

**MoU signed:** Two MoUs were signed for strategic partnership of JAU for the exchange of students, faculties, software and expertise, collaboration in research and extension education programme, for conduct of joint staff development programme with Maharana Pratap University of Agriculture & Technology, Udaipur (Rajasthan) & ASPEE Agricultural Research & Development Foundation, Mumbai (Maharashtra).

One MoU was signed between JAU & Ronak Seeds Pvt. Ltd., Ahmedabad (Gujarat) for the production and marketing of quality seed of Okra (Gujarat Junagadh Okra-3) and Brinjal (Gujarat Junagadh Brinjal-2 & Gujarat Junagadh Brinjal-3).

Seminar : To address the august gathering at this mega



Dr NC Patel, Hon'ble Vice Chancellor addressing participants of seminar



Shri Govindbhai Patel and dignitaries of SAUs of Gujarat visited stall



Cheerful faces of farmers during visit of Exhibition stall of JAU event, seminar on various themes related to agriculture and animal husbandry were organized, in which scientists of JAU delivered the lectures.

**Exhibition :** On this occasion an exhibition stall was also arranged by the JAU to disseminate the information on research and technologies developed by the university in agriculture and allied fields. The farmers from various states across the country and foreign dignitaries visited the exhibition stall of the university.

# Trividh Felicitation Programme organized jointly by JAUTA and JAU, Junagadh

A Trividh Felicitation Programme was organized on August 31, 2013 at Junagadh Agricultural University, Junagadh jointly by the JAU, Junagadh and Junagadh Agricultural University Teachers Association, Junagadh.



On this occasion, "Best Teacher Award" was given to the five teachers of JAU. Felicitation was also extended at this juncture to the retired scientists of JAU and meritorious children of university staff members for their outstanding

Shri Govindbhai Patel, Hon'ble Minister of Agriculture addressing the gathering

performance in 10<sup>th</sup> & 12<sup>th</sup> standard exemptions along with their mothers for contributing special role in the child development. Shri Govindbhai Patel, Hon'ble Minister of Agriculture (State level), Government of Gujarat and Dr NC Patel, Hon'ble Vice Chancellor, JAU, Junagadh,



Smt. Indiraben Patel honouring mother of meritorious student

Shri Govindbhai Patel and Dr. N.C. Patel felicitating retired scientist

graced the occasion and appealed to other faculty members to work hard for receiving such honour. Smt. Indiraben Patel, President, Krushi Parriwar Mahila Mandal honoured mothers of meritorious children of JAU staff. Dr PV Patel, Director Students' Welfare coordinated this entire Trividh Felicitation Programme.

# RESEARCH

# New varieties released by JAU, Junagadh Cotton: Gujarat Junagadh Cotton-101 (GJC-101)

The medium maturing variety Gujarat Junagadh Cotton -101 (GJC - 101) released for general cultivation for the



farmers of non-Bt cotton (Gossypium hirsutum) growing areas of Gujarat state under irrigated condition. The variety yielded seed cotton and lint 2107 kg/ha

Cotton: Gujarat Junagadh Cotton-101 (GJC-101)

and 676 kg/ha, respectively. It possesses 32 per cent ginning outturn and 18.34 per cent oil content in seed. The variety found moderately resistant to Alternaria leaf spot disease.

#### Sugarcane: Gujarat Sugarcane-5 (GS-5)

An early maturing variety released for general cultivation for the farmers of South Saurashtra Agro-climatic Zone growing sugarcane crop for getting higher cane and sugar yield. This variety recorded 121.20 ton/ha cane yield.

Besides that, 44 and 15 recommendations were made for



scientific communities respectively. Total 112 new technical programmes were also put up by the scientists. Sugarcane: Gujarat Sugarcane-5 (GS-5)

the farmers and

## **Recommendations for the** farmers/scientific community during 2012-13

Name of the	No. of Recommendations finalized for		New Technical
Sub-Committee	Farmers	Scientific Community	Programmes
Crop	02*	01	02
Improvement			
Crop Production	19	-	27
Plant Protection	09	01	18
Agricultural	06	02	14
Engineering			
Horticulture &	05		09
Agro Forestry			
Animal Science	03	01	18
Fisheries	01		
Science		02	05
Social Science	177	01	07
Basic Science	01	07	12
Total	2*+44	15	112
* Varieties released			

#### SEMINAR/ WORKSHOP

## State level seminar on "Crop Protection in Fruits, Vegetables and Oilseeds" organized at JAU, Junagadh

State level seminar on "Crop Protection in Fruits, Vegetables and Oilseeds" was organized jointly by JAU and Plant Protection Association of Gujarat on September 20, 2013 at JAU, Junagadh. The seminar was inaugurated by Dr AM Shekh, Hon'ble Vice Chancellor, Anand



Hon'ble Vice Chancellors, Dr AM Shekh (AAU) & Dr NC Patel (JAU) inaugurating seminar

Agricultural University, Anand. Dr NC Patel, Hon'ble Vice-Chancellor, JAU, Junagadh presided over this function. Dr JG Patel, President, Plant Protection Association of Gujarat, was present on this occasion and also addressed the gathering about the activities of the PPAG. Plant protection scientists from all the four Agricultural Universities of Gujarat as well as progressive farmers from Gujarat attended the seminar.

#### **Chintan Shibir**

Post Graduate Institute of Agri-business Management, JAU, Junagdh and Punaruthhan Vidhyapith had jointly organized one day Professor Meet – Chintan Shibir on the topic entitled "Vartaman Shikshanni Mul Samsyao Ane

Tena Lamba Gala na Temaj Tunka Galana Upayo" at PGIABM, JAU, on September 29, 2013. The talk was delivered by Ms. Indumatiben Katdare, P u n a r u t h h a n Vidhyapeeth. Total 134 participants had attended this Professor Meet-Chintan Shibir.



Professor Meet-Chintan Shibir at PGIABM, JAU, Junagadh

## TRAINING

# Training Programme for tribal farmers on Sprinkler Irrigation System

Under All India Coordinated Research Project on Ground Water Utilization, training for the tribal farmers on Sprinkler Irrigation System was organized by Department of Soil and Water Engineering, College of Agricultural Engineering and Technology, JAU, Junagadh on August



Inaugural address and Sprinkler set distribution TSP Farmers by Shri Babubhai Bokhiriya, Hon'ble Minister of Agriculture, Gujarat Govt., Gandhinagar

16, 2013. Seventy tribal farmers from Talala taluka of District Gir Somnath participated in the said training under tribal sub plan of ICAR for the welfare of tribal farmers. Shri Babubhai Bokhiria, Hon'ble Minister for Agriculture, Cooperation, Animal Husbandry, Fisheries, Cow Breeding and Water Resources (Except Kalpasar), Government of Gujarat, distributed Sprinkler Irrigation sets to all farmers. In key note address to the farmers, he emphasized on adoption of modern irrigation technologies and water management practices to cope up the water requirement of the increasing population of the country. Dr NC Patel, Hon'ble Vice Chancellor, JAU, Junagadh, in his presidential remarks, accentuated on food and nutritional securities by saving every drop of water, where it drops, and using efficiently through micro irrigation technologies.

# Training programme for farmers on "Export Oriented Spices Cultivation & its Value Addition"

Two days farmers' training programme on "Export Oriented Spices Cultivation & its Value Addition" was organized at Millet Research Station (JAU), Jamnagar during September 26-27, 2013 with the aim to create



Inaugural function and farmer trainees of training programme

awareness among farmers for cultivation of spices crops. Dr CJ Dangaria, Director of Research, JAU, Junagadh, and Dr PM Vaghasiya, Joint Director (Horticulture), Rajkot, shared prospects of spices crops to 82 progressive farmers, who participated in the said training programme. Dr CJ Dangaria, stated that such training programmes are helpful to the spices crop growers in boosting the quality production of spices. The chief guest, Dr PM Vaghasiya highlighted the scope of seed spices processing industry and scope of export of seed spices in Gujarat.

# Training programme on advanced cultivation of Pulse and its value addtion

One day training programme was organized by Research Scientist (Agril. Engg.), JAU, Junagadh at CEAT, Junagadh on July 2, 2013 for the progressive farmers of various talukas of Junagadh District (Visavadar, Vadal,

Bhesan, Vanthali). Fourty progressive farmers attended the training. Various lectures related to the advanced cultivation of pulses and its value additon were delivered by the experts of this university to the farmers. Dr CJ Dangaria, Director of Research was very much pleased with the



Dr CJ Dangaria, DR addressing the progressive farmers

performance of the progressive farmers. He appreciated the efforts made by the Centre of Excellence on Soil & Water Management for organizing this training

#### **Training on Seed Production Technology**

Two trainings were organized by the Department of Seed Science and Technology, Junagadh Agricultural University, Junagdh under TSP Scheme for the tribal farmers. First on-campus training was organized on 16 August, 2013, in



Dr AS Joshi distributing Knapsack Sprayer Pump

which farmers from Karmadi village of Taluka Mangarol were present. Second off- campus training was organized on September 17, 2013 at Chotlividi village of Taluka Mangarol. Total of 81 farmers participated and as per the objectives of

the TSP Scheme, one Knapsack Sprayer Pump and one Plastic Sheet were distributed to all the 81 farmers free of cost. Above all, quality seed of Groundnut GG 20 and Pigeonpea BDN 2 were also given to the Tribal farmers of Jambur (Ta-Talala) and Chotlividi (Ta-Mangarol) respectively, of worth Rs. 2.00 lakh for sowing in the Kharif-2013 under the said scheme.

### **Training programme for Livestock Inspectors**

One week training programme (September 16-21, 2013) was organized by College of Veterinary Science and Animal Husbandry, JAU, Junagadh on "Capacity Building of Livestock Inspectors in Animal Husbandry Extension". This training was organized for the Livestock Inspectors of Department of Animal Husbandry, Government of Gujarat, under the scheme of 'Assistance to States for Control of Animal Diseases' (ASCAD). The training programme was inaugurated by Dr PH Vataliya, Principal & Dean, College of Veterinary Science and Animal Husbandry, JAU, Junagadh. During the valedictory



Dr NC Patel, Hon'ble VC, JAU releasing manual on ASCAD training

function, Dr NC Patel, Hon'ble Vice-Chancellor, JAU, distributed certificates to trainees and appreciated their active participation during training for improving their skills and knowledge.

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## **LECTURES**

#### Special lecture cum demonstration

A special lecture-cum-demonstration on "How to live disease free life through Naturopathy and Yoga" was delivered by Shri Prabhudas T. Moradiya on August 13, 2013. All the faculty members and their families attended



Special lecture on "How to live......" by Shri Prabhudas Moradiya

this special lecture, as this lecture was arranged specially for them to keep them fit and healthy. Dr NC Patel, Hon'ble Vice-Chancellor, JAU, Junagadh and Smt. Indiraben Patel, President, Campus Mahila Mandal, were also present on this occasion.

### Special Lecture by Dr SA Patil, Chairman, KKM

Dr SA Patil, Chairman, Karnataka Krushi Mission and Ex. Vice Chancellor, University of Agricultural Sciences,



Dr SA Patil addressing scientists/teachers of JAU

Dharwad, visited JAU and delivered special lecture on "How to achieve excellence in training, research and extension activities and attract youth in agriculture" for the benefit of the students and faculties of JAU on July 15, 2013. He also visited various Colleges, Research

Centers, Seed Technology Park, Educational Museum, Agris-net Studio etc. and appreciated the developments.

#### AWARDS/RECOGNITIONS

#### **Best Teacher Award**

"Best Teacher Award" for the year 2011-12 were given to Dr MA Vaddoria, Research Scientist (O & G), Dr DR Mehta, Associate Professor, in the faculty of Agriculture; Dr HD Rank, Associate Professor in faculty of Agricultural Engineering; Dr PH Vataliya, Professor & Head, in the field of Veterinary Science and Dr SI Yusufzai, Associate Professor in the field of Fisheries. The awards were given by Shri Govindbhai Patel, Hon'ble Minister of Agriculture (State), Government of Gujarat on



Shri Govindbhai Patel, presenting the Best Teacher Award

the occasion of Trividh Felicitation Programme, which was held on August 31, 2013. Dr NC Patel, Hon'ble Vice Chancellor, JAU, Junagadh appreciated the dedicated efforts made by the scientists in teaching.

#### **Completion of FIRST Agro based ITI Course in India**

The first agro based ITI Course recently completed at JAU, Junagadh. During valedictory function, Dr AM

was the chairman of

its kind course in

India with aim to

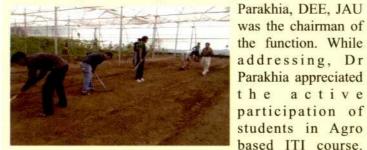
n

Around 500

people

d

active



Practical in ITI



Dr AM Parakhia, DEE, JAU awarding certificate

create skilled farmers/youth for latest technologies in agriculture. Such ITIs take the education to grass root level.

# SEAFOOD TRADE FAIR

Seafood Trade Fair-2013 was celebrated under ELP programme by 7th semester students of B.F.Sc. and Department of Harvest & Post Harvest Technology. The seafood trade fair was organized on October 1, 2013 at



Inauguration of Seafood Trade Fair - 2013 at College of Fisheries, JAU, Veraval

participated in this event including central & state fishery agencies, NGOs stake holders, boat owners & processing plant owners, etc. Six value added fishery products plus fish & shrimp pickle were the main items on the sale counter.

STUDENTS' ACTIVITIES

#### **Students' Trainings**

In present situation the subject of climate change is under discussion at national level and is a challenge for us. With a view to create awareness at grassroots levels, two



Students' participation in Leadership **Development Training Programme** 

Dr PV Patel, DSW, awarding trophy to the participated students

consecutive training programmes on Leadership Development were organized with a special session "Role of youth on climate resilient and sustainable agriculture apart from leadership". The first training programme was organized (August 16-17, 2013) in collaboration with National Council for Climate Change Sustainable Development and Public Leadership (NCCSD), Ahmedabad wherein 137 students participated from College of Agriculture, JAU, Junagadh. Similar training programme was also organized for the students of the CAET, JAU, Junagadh in collaboration with NCCSD, Ahmedabad (September 10-11, 2013) it which, 102 students attended the training. Trophies were awarded to winner group, students while certificates were awarded to the participants of both the programmes by Dr PV Patel, DSW and Dr NK Gontia, Principal, CAET, JAU.

Two days training on "Land Scape Ecology of Greater Gir



Students of JAU attended the training on Gir Forest of Dhari

Region and Regional Planning for Conservation of Asiatic Lions and its Associate Biota" was organized (September 14-15, 2013) in forest area of Dhari. Total 25 students attended training-cumecological education camp arranged by the Social

Forestry Division, Dept. of Forest, Junagadh with an objective for conservation of Greater Gir.

#### **Polytechnic in Home Science, Amreli celebrations**

Polytechnic in Home Science, JAU, Amreli celebrated various events such as :

Freshers' day (August 20, 2013): Dr MJ Solanki, Chief Guest and Principal, Dairy Sci. College, Kamdhenu University, Amreli and Dr BB Kunjadia, PC, KVK, Amreli graced the occasion and wished good luck to the new comer students for their bright future ahead. Salad

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decoration & poster competition during Nutrition Week (September 1-7 2013), World Ozone Day & Green Consumer Day (September 30, 2013) and Rakshabandhan Parva (August 20, 2013) were also celebrated.



Dr MJ Solanki addressing to Students

# Celebration of 150<sup>th</sup> Birth Anniversary of Shri Swami Vivekanand

As a part of celebration of 150<sup>th</sup> Birth Anniversary of Shri Swami Vivekanand in the country, a closing ceremony of

the message procession (Sandesh Yatra) was arranged at JAU, Junagadh on September 21, 2013. Large number of students and faculty members of the university had taken part in this procession.



Swami Vivekanand at JAU, Junagadh

tournaments were also organized on September 7 and 21, 2013 respectively and students of College of Agriculture, JAU, Junagadh

won all the games.

#### SPORTS

Inter College Table Tennis, Badminton and Basket ball tournaments organized on August 17, 2013 in new Indoor Sports Stadium. The tournament was inaugurated by Shri Alok Kumar Pandey, Collector, Junagadh district and Dr



Shri. Alok Kumar Pandey, Collector, Junagadh inaugurating the Inter College Indoor Sports Tournament

NC Patel, Hon'ble Vice-Chancellor presided over the function. In these tournaments, College of Agriculture team was winner in Table tennis (Boys & Girls), Badminton (Boys) and Basketball, while girls' team of CAET ranked first in Badminton.

Inter Collegiate Kabaddi and Volleyball tournaments and Inter College Khokho and Weight Lifting



Dr NC Patel, VC, JAU inaugurating the sports tournaments

DEE, JAU interacting with trainees at SSK



Shri KC Patel, Director IT with students in IT cell



### GLIMPSES OF EVENTS



Flag hosting on Independence Day by Dr NC Patel, VC, JAU



Hon'ble VC, JAU interaction through video conference



Thalassemia Screening and Blood Grouping of 582 students of JAU



Quarterly Review meet of KVKs with Dr AM Parakhia, DEE



Dr PV Patel, DSW, welcomes Brahma Kumaris' Cycle Rally



Celebration of Technology week at KVKs, JAU



Meeting of Board of Management, JAU



Brain storming session on preparation for VGGAS-2013



Dr Kirit Shelat, Ex P.S. (Agri.) visited Agrisnet Studio

### VISITS

# Visit of Shri Rajkumar, Principal Secretary (Agri.), Govt. of Gujarat to JAU, Junagadh



Shri Rajkumar, Principal Secretary on visit to JAU

Shri Rajkumar, IAS, Principal Secretary (Agriculture), Government of Gujarat, visited JAU, Junagadh on September 27, 2013 as well as attended meeting of Board of Management, the pivotal governing body of JAU. He visited departments of various colleges, research units, museums, sport complex, Agris-net Studio etc. He was accompanied by Dr NC Patel, Hon'ble Vice-Chancellor, Dr CJ Dangaria, DR and Dr AM Parakhia, DEE, JAU Junagadh. He appreciated the multifaceted development of university. He discussed various issues on teaching, research and extension during interactive meet with university officials, Deans and scientists.

#### Visit of South African academician Prof. GRA Mchau

Prof. GRA Mchau, Dean, School of Agriculture, University of Venda, South Africa, visited JAU, Junagadh on September 27-28, 2013 as a part of MoU made between JAU and University of Venda. He visited different Crop Research Centers (Oilseeds, Pulses, Wheat, Cotton and Vegetables) and also the High Tech Park on



Prof. Mchau visited KVK, Targhadiya Hon'ble VC felicitating Prof. Machau

Seed Production Technology. Dr NC Patel, Hon'ble Vice Chancellor greeted Prof. Mchau and ensured to strengthen bilateral exchange programme for students and faculties. He also visited Krushi Vgyan Kendra and Dry Farming Research Station, JAU at Targhadia on September 28, 2013 and collected information on techniques of cultivation of various crops under dry conditions.

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# Quarterly Activities of Krushi Vigyan Kendras (Jul-Sep, 2013) [Amreli, Jamnagar, Khapat, Nana kandhsar, Pipalia, Targhadia]

Activity	No.	Participants
Frontline Demonstrations	185	69
Field day	28	468
Agril. Exhibition	2	1212
TV / Radio Programmes	12	0
Publications	19	0
Diagnostic visits	216	228
Field Visits	171	572
Kisan Gosthi	37	1207
Farmers visit to KVKs	1742	4225
Advisory/Enquiry/Help Line service	2803	3296
Extn. Literature distributed	2750	-
Popular Articles	19	-
Scientists visits to farmers fields	182	407
Film Show	54	2473
Lectures delivered	78	12
Training of Farmers	132	3503
Training of Extension Personnel	6	233
Trainings for Women	14	401
Training for farmers by Sardar Smruti Kendra, JAU, Junagadh in Association with ATMA	12	463

### **Celebration of Technology Weeks at KVKs**

Technology Weeks were celebrated at all KVKs of JAU in September, 2013, in which around 3100 farmers & farm women participated in seminars, demonstration and discussed on various technologies of agriculture and allied fields.

