Vol. 2 No. 2 April - June, 2019





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From the VC's Desk



The National Academy of Agricultural Sciences (NAAS) organized a brain storming session on "Enhancing Science Culture" in June 2019 where I had the opportunity to present SAUs perspective in relation to "Enhancing Science Culture in Agricultural Research Institutions". As the Vice Chancellor of a Young University, with the average age of faculty hovering around 35yrs, I perceive, both an opportunity and a challenge, in channeling the vibrant energy into achieving organizational goals of innovation and excellence in teaching, research and extension. Proactive

reviews of the various mandated programmes at the beginning of the academic calendar and crop seasons, brought forth several interesting insights into the attitudes and performance ideals of the faculty across age groups and cadres which would not be very different in other institutions as well. Encouraging research integrity, scientific creativity and integrity is very essential particularly in the backdrop of inbreeding, lack of diversity, little exposure to national and international research culture, gap between choice of experiments and field/societal relevance, unadoptable outcomes due to improper planning, methodology, inadequate scientific mentoring, virtual work preferences with little multi disciplinary interaction, performance score oriented work culture, unavailability of financial and physical resource for experimentation and most importantly deficiency in team building. Creating a conducive scientific environment requires a committed will, starting from realistic research prioritization and planning with tangible time bound deliverables; identification of scientific teams with correct fit; ensuring capacity building, timely mentoring and monitoring for mid course correction; creating necessary research infrastructure to foster out of the box thinking and innovation, encouraging, process and product patenting; incentivizing research publishing in high impact peer reviewed journals, successful project grants; consultancies and team building etc. Above all, infusing ethical values for scientific integrity in individual and scientific teams should start from student days, putting the onus on faculty in encouraging scientific temperament, ethical behavior in classrooms, laboratories that would carry on as young science professionals who would learn to tune self growth with organizational growth. Creating a policy for academic integrity through a code of conduct that is conscientiously implemented by all concerned is the way forward. We at PITSAU believe in instilling a sense of fair play in the student and scientific community while working for the welfare of the farmers and consumers.

Draveces H

Dr. V. Praveen Rao Vice Chancellor

Promising Technology

PJTSAU Successfully released Eight New Varieties

Eight new varieties of six crops were approved for release in the 2nd State Varietal Release Committee meeting 2019 held on 20th June, 2019 under the chairmanship of Sri C. Parthasarathi, APC & Principal Secretary, Department of Agriculture and Cooperation, Govt. of Telangana. Three varieties of Rice and one variety each in Jowar, Redgram, Groundnut, Sesamum and Cotton were approved for release after extensive testing in different trials and minikits. The details of the varieties are as follows:

Rice - JGL 24423 (Jagital Rice 1): A medium duration fine grain variety (125 days) suitable for cultivation in both kharif and rabi with an yield potential of 8.0-8.5 t ha⁻¹, tolerant to BPH and Blast. It is developed from Regional Agricultural Research Station, Jagtial.



Rice - JGL 24423 (Jagtial Rice 1)

Rice - KNM 733 (Kunaram Rice 1): A short duration (120 days) fine grain variety with good cooking quality, suitable for cultivation in both kharif and rabi, tolerant to cold and blast with an yield potential of 7.5-8.0 t ha⁻¹. It is developed from Agricultural Research Station, Kunaram.



Rice - KNM 733 (Kunaram Rice 1)

Rice - WGL 915 (Warangal Rice 1): A medium duration (135 days) fine grain variety with an yield potential of 7.5-8.0 t ha⁻¹, suitable for cultivation in *kharif*, non lodging, non shattering, sturdy culm, moderately resistant to BPH and WBPH, blast, BLB and Rice tungro diseases. The grain is long bold and suitable to make poha/pressed rice. It is developed from Regional Agricultural Research Station, Warangal.



Rice - WGL 915 (Warangal Rice 1)

Jowar- PYPS 2 (Palem Pacha Jonna 1): A high protein (12%) variety with an yield potential of 2.0-2.5 t ha⁻¹ (Grain)and 5.0-5.5 t ha¹ (fodder). It has crop duration of 95-100 days, suitable for cultivation in *Kharif* and tolerant to grain mold, stem fly and stem borer. It is developed from Regional Agricultural Research Station, Palem.



Jowar - PYPS 2 (Palem Pacha Jonna-1)

Redgram - WRGE 97 (Warangal Kandi 1): A mid early duration variety (140-160 days) with an yield potential of 18 q ha⁻¹, suitable for cultivation in both *kharif* and *rabi*, moderately resistant to wilt. It is developed from Regional Agricultural Research Station, Warangal.



Redgram - WRGE 97 (Warangal Kandi 1)

Sesamum - JCS 1020 (Jagtial Til 1): A white seeded variety with good quality oil suitable for cultivation in late *kharif*, *rabi* and summer and an yield potential of 7.0-8.0 q ha (late *Kharif*) and 10.5-11.26 q ha (*Rabi*/Summer). It is tolerant to powdery mildew and Alternaria leaf spot. It is developed from Regional Agricultural Research Station, Jagtial



Sesamum - JCS 1020 (Jagtial Til 1)

Groundnut- JCG 2141 (Jagtial Palli): A Spanish bunch variety with an oil content of 51.5 %. It has a duration of 95-



Groundnut- JCG 2141 (Jagtial Palli)

100 days (*kharif*) and 85-90 days (*Rabi*/ Summer), tolerant to rust and leaf spot and has an yield potential of 3.33-3.5 t ha⁻¹. It is developed from Regional Agricultural Research Station, Jagtial.

Cotton - ADB 542 (Adilabad Kapas 1): A variety with 150-170 days duration, good fiber quality and an yield potential of 3000 kg ha⁻¹. It is suitable for cultivation as rainfed crop and tolerant to Bacterial leaf blight, Tobacco streak virus, Leaf hopper and boll worms. It is developed from Agricultural Research Station, Adilabad

Workshops, Conferences, Meetings, Seminars, Exhibitions

Delineation of Crop Colonies - Concept Orientation to DoA officers

An orientation programme on "Delineation of crop colonies for major crops grown in Telangana state" was held on 3rd April, 2019 at Water Technology Centre, PJTSAU, Rajendranagar with a vision to optimize utilisation of inputs and make agriculture profitable to the farmers of the State. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor informed that 45 crop zones and 75 crops were identified and an action plan for the pilot project will be finalized after the meeting with line departments including agriculture and horticulture. Dr. V. Rama Murthy, Principal Scientist (SS&AC) NBSS & LUP, Regional Station, Bengaluru explained in detail on the delineation of crop colonies for important crops grown in Telangana State and clarified the doubts raised by participants including officers from Department of Agriculture and Horticulture, Scientists of



Orientation on Delineation of Crop colonies to DOA officers

KVK's, Principal Scientists of various crops, Directors of local ICAR institutes, University officers of PJTSAU.

Dr. M.V. Shantaram Memorial Lecture - Emphasizes on Enhancing Nutrient Use Efficiency

The Hyderabad Chapter, Indian Society of Soil Science in collaboration with Department of Soil Science and Agricultural Chemistry, PJTSAU organized the 6th Dr. M. V. Shantaram Memorial Lecture on "Emerging Strategies for Enhancing Nutrient Use Efficiency under Changing Climate Scenario" on 3rd April, 2019 at College of

Agriculture, Rajendranagar. The lecture was delivered by Dr. K. Sammi Reddy, Head, Division of Natural Resource Management, ICAR-CRIDA. Dr. Reddy illustrated trends in fertilizer use in the past six decades which has resulted in multi nutrient deficiencies and hence emphasized to focus on site specific balanced application of nutrients, 4 R Best

management practices, use of Control released fertilizers and exchange fertilizers for enhancing nutrient use efficiency under changing climatic conditions. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor and the chief guest urged the soil scientists to promote proper nutrient and fertiliser management strategies which would be helpful to the small and marginal farmers dependant on dry land agriculture. Dr. K. Jeevan Rao, President, ISSS Hyderabad Chapter, Dr. G. Padmaja, Professor & Head, Dr. Harish Kumar Sharma, Secretary participated in the session.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor addressing the students and faculty

ZREAC - A Platform for Farmer Scientist Interaction

Zonal Research and Extension Advisory Council (ZREAC) meetings were organized in three agro-climatic zones of Telangana viz Central, Southern and Northern Telangana Zones on 16th, 18th and 20th April, 2019 at Khammam, Rajendranagar and Kama Reddy respectively. During the STZ meeting, the Hon'ble Vice Chancellor informed that PJTSAU was successful in releasing popular varieties and scaling up promising technologies viz. AWD in rice, Mat Nursery for mechanized transplanting in Rice, farm pond technology etc. and further emphasized the need for focused research for increasing the productivity under changing climatic conditions and making agriculture profitable to the farmers of the State. During the interaction problems faced by farmers were discussed and appropriate



farmers at ZREAC, Southern Telangana Zone.



Dignitaries lighting the lamp at ZREAC, NTZ

suggestions were made. It was proposed to conduct large scale demonstrations on different rice cultivation methods (dry convert to wet, drum seeding, machine planting), organize awareness campaigns on Fall Army Worm and Pink Boll Worm right from the beginning of the season, drawing up a separate action plan for a suitable cropping system in place of fodder jowar (Redgram) in Armoor, Banswada, Bichukunda of Kama Reddy/ Nizamabad districts etc. The researchable areas for the ensuing seasons were drawn based on the problems identified in the meetings. Dr. R. Jagadeeshwar, Director of Research, Dr. D. Raji Reddy, Director of Extension, PJTSAU, Joint Directors of Agriculture of various districts, scientists and farmers participated in the meetings.

AICRP on Home Science Transforms to AICRP on Women in Agriculture

A Brainstorming Workshop on restructuring of AICRP on Home Science to AICRP on Women in Agriculture was organized by ICAR-Central Institute for Women in Agriculture, Bhubaneswar in collaboration with AICRP on Home Science, PJTSAU at Extension Education Institute, Hyderabad on 29th and 30th April, 2019. The Chief Guest, Dr. N. S. Rathore, the Deputy Director General (Education), ICAR in his inaugural address stressed on critical individual thinking, identifying the researchable issues, formulating

communication strategies and bringing leadership status among farm women in line with ICAR mandate. He emphasized the need for transformation of AICRP-Home Science into AICRP-Women in Agriculture with a holistic development integrating all five components addressing women issues in agriculture. Dr. S. K. Srivastava, Director, ICAR-CIWA while contest setting, stressed the need for changing AICRP on Home Science to AICRP on Women in Agriculture. The workshop was divided into six Technical Sessions *viz.*, Forward and backward linkages for popularization of Community Science, Designing and standardization of methodology for developing vulnerability index and Model for enhancing income of women in agriculture, Way forward for integrated farming system, Food safety, Good agriculture practices, Agriprocessing and Agri-marketing, Diversity in the pattern of livelihood and nutritional security in terms of income, access to resources and mode of vulnerability of farm women in agro-ecological and socio-economic perspective,



Dr. N.S. Rathore, DDG (Education), ICAR addressing the gathering



Dignitaries lighting the lamp

Research on technology assessment, Livelihood policy, Drudgery reduction, NRM, Food and nutrition and technology transfer and conversion of research output to business outcome. Dr. Ch. Srinivas Rao, Director, ICAR-NAARM, Dr. P. S. Pandey, Assistant Director General (EP&HS), ICAR, Dr. Lipi Das, Principal Scientist and Nodal officer to H.Sc., CIWA, Dr. R. Jagadeeshwar, Director of Research, PJTSAU, Dr. V. Vijaya Lakshmi, Dean of Home Science, PJTSAU and Dr. T. Sarah Kamala Organizing Secretary, Unit Coordinator, AICRP on Home Science and scientists from PJTSAU participated in the programme.

10th Academic Council Meets

The 10th Academic Council Meeting of PJTSAU was held on 3rd May, 2019 at University Auditorium, Rajendranagar, Hyderabad under the chairmanship of Dr. V. Praveen Rao, the Hon'ble Vice Chancellor wherein academic issues of three faculties viz., Agriculture, Agricultural Engineering & Technology and Home Science were discussed. The council passed a resolution to enhance 100 seats in B.Sc (Hons.) Agriculture under payment (75) and NRI (25) quota. The other resolutions included reintroduction of PG Program in Statistics and Mathematics, reduction of seats in Agricultural Polytechnic from 330 to 220, renaming University Library as Knowledge Management Centre and faculty of Home Science as Community Science. It further resolved to increase the seats in B. Sc (Hons) Community Science from



10th Academic Council in Session

59 to 75 and institute a new gold medal to student securing highest OGPA in M.Sc (Ag) in the name of Professor Mohammed Taskeen Ali Niaze.

Research and Extension Action Plan for 2019-20 Finalized



Dr. R. Jagadeeshwar, Director of Research addressing the scientist

The State Level Technical Programme (SLTP) meetings for the year 2019-20 for the research and extension wings of the University were held from 15th to 21st May, 2019 at the main campus. Dr. R. Jagadeeshwar, Director of Research, PJTSAU in his inaugural address emphasized the need based research to meet the requirements of the farming community and urged to carry out research on pesiticide residues on food crops. Dr. Y. G. Prasad, Director ATARI and Dr. D. Raji Reddy, Director of Extension, PJTSAU appreciated the extension units for their concerted efforts for scaling up the agro technologies to the farmers and scientists for their

presentations. They further emphasized the need to sensitize farmers on efficient use of water, indiscriminate use of pesticides and fertilizers and added to elicit the value of extension by documentation and scaling the technologies

across the state for increasing production and farmers income by transfer of technology. The scientists of all themes presented the work done report for the year 2018-19 and the plan of action for the year 2019-20.

Seed Mela 2019 - Shaping Up as A Mega Event

The Seed Mela 2019 organized simultaneously on 24th May, 2019 at University Auditorium Premises, Rajendranagar, RARS, Jagtial, Warangal and Palem to provide a common platform to farmers of Telangana for purchase of quality seed of various crops. The Hon'ble Minister for Agriculture and Co-operation, Sri Singireddy Niranjan Reddy formally inaugurated the Mela and distributed quality seed to the farmers. In his inaugural address he announced that seed mela would be organized every year on 24th May at all the district headquarters. He further reiterated the efforts put forth by the Hon'ble Chief Minister in delivering various schemes to enhance the livelihood of farmers which are replicated in several states in the country. The Hon'ble Minister released six DVD's developed by Electronic Wing, PJTSAU in vernacular language on Integrated pest management of Fall army worm in maize, Safe use of pesticides, Mat nursery for mechanized transplanting in rice, Seed treatment, Mechanised planting in ID crops, Alternate Wetting and Drying method of rice cultivation.

Dr. V. Praveen Rao, the Hon'ble Vice Chancellor in his address elaborated on the efforts put forth to supply quality seed to the farmers, while announcing the release of eight



Sri S. Niranjan Reddy, the Hon'ble Minister for Agriculture distributing the seed to a farm woman

new varieties soon. He registered his gratitude to the farmers who were continuously encouraging the university scientists by adopting the new technologies and varieties developed at PJTSAU. Twenty four crop varieties including fine grain (RNR 15048, WGL 44, Krishna, BPT 5204) and coarse grain varieties (JGL 18047, KNM 118, MTU 1010) of paddy, maize (DHM 117), sorghum (CSV 31), redgram (WRG 65, PRG 176, TDRG 4, Asha), greengram (MGG 295, MGG 347, MGG 351, WGG 42), blackgram (PU 31), castor (PCH 111), sesame (Swetha) and forage crops like Hedge lucerne and Avisa (Sesbania grandiflorum) were arranged



Dignitaries visiting the stall at Seed Mela

for sale. Around 2900 farmers participated in the seed *mela* making it a grand success, selling seed worth Rs. 23.00 lakhs. This event was organized in collaboration with Indian Institute of Rice Research (IIRR), Indian Institute of Oilseeds Research (IIOR), Indian Institute of Millets Research (IIMR), Project Directorate of Poultry (PDP), Central Research Institute for Dryland Agriculture (CRIDA), Sri Konda Laxman Telangana State Horticultural University (SKLTSHU), P.V. Narasimha Rao Telangana Veterinary University (PVNTVU), National Seeds Corporation (NSC), Telangana State Seed Development Corporation (TSSDC) and Telangana State Seed and Organic Certification Agency (TSSOCA).

Faculty and Student Participation - In Conferences, Seminars

- Dr. V. Praveen Rao, the Hon'ble Vice Chancellor participated in the third meeting of ICAR Committee to develop Model Act for Higher Agricultural Education Institutions in India on 2nd April, 2019 held at KAB-II, Pusa, New Delhi.
- Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU was the Guest of honour in the inaugural function of the one day Seminar on "Role of the Engineer in Agriculture for Doubling the Farmer's Income" held at Visvesvaraya Bhavan, Khairtabad, Hyderabad on 27th May, 2019.
- Dr. J. Satyanarayana, Dean of Agriculture participated in the IV ICAR Nodal Officers Meet held at Jorhat, Assam on 9th and 10th April, 2019 convened by the DDG (Edn.), ICAR, New Delhi.
- Dr. R. Jagadeeshwar, Director of Research and Dr. M. Lava Kumar Reddy, Principal Scientist (Entomology) participated in a Task Force Committee meeting on Fall Army Worm in maize on 15th April, 2019 held at Krishi Bhavan, New Delhi.

- Dr. P. Radhika, Associate Professor, College of Agriculture, Rajendranagar attended a MSME Business Conclave on "Leveraging Technology and Capitalizing on Finance for MSME Competitiveness" organized by CII Telangana in association with HDFC bank and delivered a talk on leveraging research work of institutions by MSME for their competitiveness with specific reference to "Technology of PJTSAU that can be commercialized" on 4th May, 2019 at ITC Kakatiya, Hyderabad.
- Six faculty members from College of AGRL Engineering, Kandi, Sangareddy were deputed to the training programme on "Developing Winning Research Proposals (DWRP) on Agriculture / Agricultural Engineering research" held at ICAR-NAARM, Rajendranagar, Hyderabad from 16th to 18th May, 2019.
- Ten Scientists from PJTSAU including Dr. T. Pradeep, Director (Seeds), Dr. K. Jhansi Rani, Dr. P. Sujatha Dr. Y. Bharathi and Dr. Madhavi, Seed Research and Technology Centre, Rajendranagar, Dr. Razia Sultana, Agricultural College, Sircilla, Dr. Y. Chandra Mohan, Rice Research Centre, Rajendranagar, Smt. M. Pallavi, AICC and PJTSAU Press, Dr. B. Satish Chandra, RARS, Warangal and Dr. Rajender Reddy, ARS, Adilabad participated in the 32nd ISTA Congress 2019 held from 26th to 29th June at HICC, Hyderabad.
- Dr. V. Anitha, Director (P&M) and Dr. J. Satyanarayana, Dean of Agriculture participated in the one day M & E sensitization workshop for NAHEP projects on 28th June, 2019 at NAS Complex, New Delhi.

Collaborations

Plan to Empower Rural Youth - Coromandel and PJTSAU Work Hand in Hand

Arun Leslie George, Executive Vice President and Head of Retail, Coromandel International Limited, Hyderabad and Dr. S. Sudheer Kumar, Registrar, PJTSAU signed a Memorandum of Understanding (MoU) on 17th April, 2019 in the presence of the Hon'ble Vice Chancellor for imparting skill training to youth and refresher course for marketing professionals of Coromandel in latest Agricultural technologies by PJTSAU. Dr. V. Praveen Rao projected the various activities of the University and the initiatives put forth by Govt. of Telangana to make Agriculture profitable for the farmers of the state. Coromandel International evinced interest to work with University in imparting skill development training programmes on agri technologies and on retail store management to the rural youth.



Arun Leslie George, Executive Vice President and Head of Retail, Coromandel International Limited signs MoU with PJTSAU

PJTSAU and PRDIS - Technically Backstopping the Farmers of the State



PJTSAU inks MoU with PRDIS, Hyderabad

The Memorandum of Understanding (MoU) was signed between Participatory Rural Development Initiative Society (PRDIS), Hyderabad and PJTSAU on 24th May, 2019 with focus on agriculture and rural development issues, entrepreneurial skill development, monitoring and evaluation studies, specially undertaking benchmark, impact assessment, research studies and capacity building activities as well as field operations focusing on sustainable agriculture. Speaking on the occasion Dr. V. Praveen Rao, the Hon'ble Vice Chancellor offered agro advisory from PJTSAU to the field facilitators of PRDIS in the adopted villages of PRDIS through adjoining research stations and KVK's, Dr. Venku Reddy, President, PRDIS informed that it was working with 70 villages in Telangana with skill development centres at few villages

PJTSAU Strengthens Agro Forestry with Support of ITC



CEO, ITC exchanging MoU with Registrar, PJTSAU

PJTSAU entered into MoU with ITC Paper Board to promote Agro Forestry plantations in the University. The MoU was signed by Dr. S. Sudheer Kumar, Registrar, PJTSAU and Sri Sanjay Singh, CEO (Speciality Papers division), ITC Paper Board on 26th June, 2019 in presence of the Hon'ble Vice Chancellor. It was agreed to take up agro forestry plantations first in KVK Malyal, KVK Kothagudem and Agricultural College, Aswaraopet. Avenues to enable student attachments to ITC units are also being explored.

CSFD and PJTSAU to Work Together

Cornell Sathguru Foundation for Development (CSFD) and PJTSAU entered into a Memorandum of Understanding on 13th June, 2019 for the advancement of agriculture and the betterment of farmers. The initiative will help to bring frontier technologies, support dissemination of information, capacity building for the farming community and support the advancement of student exposure to international agriculture through student scholarship and faculty exchange. They have evinced interest in reaching out to farmers in the state of Telangana by providing training on improved farming practices, value addition, and agri based enterprise development. These services will be percolated through PJTSAU's extension services, research, and IT solutions. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor,



Ms. Hemalatha, Director, CSFD signs MoU with PJTSAU Ms. Hemalatha, Director, CSFD, Mr. Vijayraghavan, Vice Chairperson, CSFD and all University officials graced the occasion.

Capacity Building

Young Plant Breeders of PJTSAU Trained at ICRISAT

Fifty young scientists of Dept. of Genetics & Plant Breeding and Biotechnology were deputed for training on "Next Generation Genomics for Crop Improvement" from 6th to 17th May, 2019 organized by Center of Excellence in Genomics and Systems Biology, ICRISAT, Hyderabad. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor and Guest of

honour informed that the programme was intended to accelerate crop improvement to accelerate the plant breeding programme of the University. Dr. Peter Carberry, Director General, ICRISAT, Hyderabad informed that ICRISAT had custommade the training programme for the PJTSAU scientists incorporating latest technologies in



PJTSAU Crop Improvement team with the dignitaries at the training programme at ICRISAT

breeding programmes to adopt next generation technologies in their breeding programs. This course included genomics applications covering topics on molecular markers and marker-based diversity assessment to gene/QTL/trait mapping and marker-assisted breeding; construction of genetic linkage maps; QTL mapping based on purpose-created populations; and association (LD)

mapping using breeding lines or germplasm and introduction to cluster analysis and construction of dendograms, diversity analysis software and next generation sequencing and bioinformatics tools. The program was partially supported by the CRP Grain Legumes and Dryland Cereals (GLDC) and CGIAR Platform on Excellence in Breeding.

RS & GIS Lab Strengthens Student READY Programme

One month skill development programme was organized at RS & GIS Lab, Water Technology Centre, Hyderabad for 10 students of III year B.Tech (Agri. Eng.), College of Agricultural Engineering, Kandi, Sangareddy as part of Student READY programme from 1st June, 2019. Hands on training on collection of GPS data, study of satellite data, reference maps, geo referencing, preprocessing of the raw satellite data and toposheets, connecting both of them, digitalization, digital image analysis, classification methods for developing land use / land cover maps, NDVI maps of area of interest, generation of shape files, principles of projections and cartograph were given. In addition they were acquainted with different software related to spatial analysis like Q-GIS (open source) and licensed versions viz., ERDAS IMAGINE 2018 and IGiS. They were further assigned project works on LULP and watershed analysis in Kalwakurthy lift irrigation area of Nagarkurnool and Mahabubnagar districts of Telangana. The different field activities for precision agriculture like drip irrigation, fertigation, maintenance of drip irrigation,



Participants listen in rapt attention to Dr. Shashikanth A Sharma, Scientist - SG & Group Head, Space Application Centre, Ahmedabad

protected cultivation in poly houses, shade nets, Integrated Farming Systems unit, meteorological station in the farms of College of Agriculture and Agricultural Research Station, Rajendranagar, Hyderabad, floriculture unit etc, were also included in the training programme. The students were trained to handle the projects for natural resources inventory using RS and GIS tools.

Spreading Awareness on Appropriate Use of Agrochemicals - A Certificate Course

A Certificate Course on "Awareness on appropriate use of agricultural chemicals and their compatibility" was organized by the Department of Agronomy, College of Agriculture, Rajendranagar from 13th to 19th June with a motto to educate farmers in easy diagnosis of nutrient disorders, pests and diseases, appropriate use of chemicals and safety measures to be followed during application of Agro chemicals. Dr. J. Satyanarayana, Dean of Agriculture, PJTSAU in his inaugural address stressed on the importance of agrochemicals in agriculture and commended the efforts of the organizers in conducting the training programme. Dr. A. Manohar Rao, Member, Board of Management, PJTSAU in his address emphasized on the role of youth in agriculture. The sessions were organized to include Agro chemicals and their role in agriculture, essential nutrients for plants, calculation of fertilizer doses, herbicides, identification of



A profile photo of trainees at certificate course

pests, symptoms of damage and their management, & safe use of pesticides etc. Twenty trainees from wide backgrounds ranging from Diploma to Masters in Agriculture, B.Tech, B.D.S. and farming community participated in the training programme.

Distinguished Visitors

University of New England (UNE), Australia Keen to Collaborate with PJTSAU

Prof. Caroline Gross, Deputy Dean, Faculty of Agriculture, University of New England (UNE), Australia visited PJTSAU on 13th June, 2019 with a vision to collaborate with University in the areas of Natural resource management, Agricultural economics, Food science & technology, Policy research and Bio technology. explained the activities of the UNE and further added the details of courses and scholarships for Agriculture courses at UNE. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor presented the agriculture scenario, cropping pattern and weather conditions of the state in addition to the activities of the University. He urged the UNE team to extend cooperation in areas of water management, farm mechanization, soil health improvement, crop diversification etc. He further suggested the need for collaboration in the areas of Food Science and Technology, water management, capacity building and student & faculty



Prof. Caroline Gross, Deputy Dean, Faculty of Agriculture, University of New England (UNE), Australia interacting with university officials exchange programme. The university officers of PJTSAU and Tamil Chelvam, representative from UNE participated in the meeting.

Longping University Evinces Interest in Hybrid Rice Seed Programme

Delegates from Longping University led by Ms. Zhou Dan, Executive Vice President visited University on 14th June, 2019 and interacted with University officials with an intent to promote research and development in hybrid Rice at Hyderabad and to explore opportunities in agriculture field in India. They also evinced interest to have strong collaboration in organizing hybrid rice production training programmes in the State. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor explained the activities of the varisty and the status of hybrid rice seed production in the State. He informed that a high level delegation from PJTSAU will visit Longping University to analyse the training programmes and if essential a Memorandum of Understanding will be signed by both the Universities. All the University officials



Officials from Longping University, China with the Hon'ble Vice Chancellor, PJTSAU

and Telangana State Trade Promotion Corporation participated in the interaction.

Karnataka Agriculture Minister Visits Varsity

Hon'ble Minister.

Sri N.H. Siva Shankar Reddy, the Hon'ble Minister for Agriculture, Karnataka visited PJTSAU on $27^{\rm th}$ June, 2019 to learn first hand about the activities at the University. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor presented the activities of the University and informed that University is planning to establish a *Dal* processing Unit and Safflower Oil extraction unit at ARS, Tandur for the benefit of the farmers.

The Agriculture minister enquired the university officials on the recruitment process and farmers scientists interactions at the university. The minister later visited the Knowledge Management Center, Central Instrumentation Cell, Millet Incubation Center and Virtual class room at College of Agriculture. Dr. Rajendraprasad, the Hon'ble Vice Chancellor, University of Agricultural Sciences, Raichur and



Sri N.H. Siva Shankar Reddy, the Hon'ble Minister for Agriculture, Karnataka at Knowledge Management Centre, PJTSAU Sri Patil, OSD to Agricultural Minister accompanied the

Awards & Honours

 Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU received the "Leader with Strategic Vision Award" at Agribusiness Summit & Agri Awards 2019 held at Hotel Park Hyatt, Hyderabad on 27th April, 2019.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor receiving the "Leader with Strategic Vision Award"

- Dr. R. Srinivas, Scientist, DAATTC, Khammam received the Best scientist award from Sri T. Srinivas Yadav, the Hon'ble Minister for Animal Husbandry, Fisheries, Dairy Development and Cinematography on 2nd June, 2018 on the occasion of Telangana Formation Day.
- Ms. V. Manasa Reddy, student from Agricultural College, Jagtial received one silver and one bronze medal in 4th International Turkish Open Kick boxing Tournament -2019 held at Antalya, Turkey from 4th to 7th April, 2019 under senior musical forms (19 - 40 yrs) (Soft Style weapon and Soft Style) category.



Ms. V. Manasa Reddy, student from Agricultural College, Jagtial receiving silver medal at 4th International Turkish open Kickboxing Tournamnet-2019

 Mr. Agniv Mukherjee, Mr. Anuraag Kashyap and Ms. Delisha received appreciation certificates from Sri S.
 N. Niranjan Reddy, the Hon'ble Minister for Agriculture, Telangana for securing admission into IIM (Ahmedabad) and IIM (Trichy) on the occasion of Seed Mela held at PJTSAU, Rajendranagar, Hyderabad on 24th May, 2019.

KVK's of PJTSAU Grab the Limelight

• Krishi Vigyan Kendra, Adilabad bagged Best Performance award in implementing of Tribal Sub Plan

(TSP) and Best Oral Presentation, while KVK, Palem received Best Oral Presentation and KVK, kampasagar received best performance in Arya Project, Best fact sheet and best poster presentation for 2018-19 at Annual Zonal Review Workshop of KVKs of Zone -X organised by ICAR-ATARI, Hyderabad at NAARM Campus, Rajendranagar, Hyderabad from 24th to 26th May, 2019.

Anurag Kashyap Brings Laurels to The University

Anurag Kashyap student of PJTSAU who pursued B.Sc (CABM) from PJTSAU made it to IIM, Ahmedabad.

The story of his journery in his words......

I Anurag Kashyap a son of a marginal farmer (*Mr. U.S. Thakur & Mrs. Rukmani Devi*), born and brought up in the *Rajawara* village of Muzaffarpur district, Bihar, want to say in the very beginning that I neither declare myself as a successful person nor this story as a



success story, because in my opinion success can never be achieved once but it is an ever thriving desire in you that keeps you motivated to achieve more. So claiming my story as a success story is injustice, rather, One can read it as a parable of common Indian man trying to find a way in the crowd.

My childhood was full of dreams and aspirations like any lower middle class kid in India. Diwali without the wishful crackers, Cricket without the favourite bat, branded dress and shoes were far for me as "Football world cup" for India. But I never complained to my parents and will not try ever because what more can you expect from a father who is hawking dry fruits, running Kirana shop, growing vegetables, etc. to run a family of 8. I am blessed to have him not because he provided all the books & Pens I ever asked but because he developed a hunger for hard work and immense amount of positivity in me. He is my best friend because he lived my dreams with his eyes and yes now, he is the ideal person to celebrate with. It would be unfair to take away credit from any parent behind the success of his child, be it small or big. I still remember my mother preparing early tea at 4:00 AM to wake me up for study though she had no idea as to what I study(she is illiterate) but she was assured that our fate could change if I focus on my studies. The story is incomplete without thanking my lovely sisters (5) who always wanted me to succeed.

I am a believer of luck but I also believe that it favours those who work hard. Going to IIM A was not my first choice, earlier I prepared for JEE Advance in 2014 but could not get a seat and ended up taking B.Sc. (CA&BM) which later proved as a good choice. One has to identify his/her

strengths in selecting the career path because it matters the most. I started preparing for CAT, wrote twice, one was a trial in 3rd year followed by another in the final year. I secured 83.38 percentile and cleared all the interviews, I also attended IIM A, IRMA and MANAGE. I am presently in the second year of my MBA and wish to become a business leader someday. One should always be positive and dream with open eyes i.e. dreaming by visualising the opportunities, trust me the universe has both problems and solutions floating in the same environment. Being disciplined and honest to yourself are the best traits to be developed for becoming a great student which can later help in becoming a great human being.

Although I am a "Bihari" by birth but Telangana has always been my "Karma-Bhoomi". I can also understand and speak Telugu comfortably now and the smell of "Hyderabadi Biriyani" always keeps the memory of the place fresh and live. I was fortunate to study from many great professors (in the college of Agriculture), who has always been kind in guiding me, but to name a few, I was highly motivated by Dr. Seema's teaching, motherly care by Dr. M. Madhavi and Dr. T. Uma Maheshwari and inspired from the dry honest and disciplined personality of Dr. Sathyanarayana Jella.

I thank you for reading and wish you a great future. Long Live PJTSAU! Long Live Telangana! Jai Hind!

NEW APMC ACT 2017- Restructuring of Agriculture Marketing in India

India recorded a tremedous increase in food grain production from 51 Mt in 1950 - 51 to 275 Mt in 2017-18. However the pace of income realized by the farmers from cultivation remains slow i.e the growth of farm income is pro poor, plummeted to 1% leading to sudden rise in agrarain distress. The government of India with a vision to introduce creative disruption in the current agriculture market environment of the country introduced the New model act entitled "The State/ UT Agricultural produce and livestock marketing (Promotion & Facilitation) Act, 2017" - harbinger of Agriculture marketing reforms in the country.

The salient features of the Act are

- The State / UT are recognised as a single unit instead of the concept of notified market area.
- Geographical restriction of free trade of agriculture and allied products.
- The Director of State/UT Agriculture Marketing is bestowed to carry out regulatory function while Managing director will be mandated with developmental responsibilities under the act.
- Opportunities for private players to set up wholesale and farmer consumer market yards to create competition and there by allow farmers to fetch better prices.



- Declaration of warehouses and cold storage facilities as markets/ sub market yards to enable better linkage between farmer and buyer.
- Furthering of e-trading to create transparency by linking markets across different geographies.
- Single trading licence across the state for cost effective transactions, provision of interstate trading licence, grading and standardization and quality certification of national market for agriculture produce.
- It also calls for democratization of market communication and state / UT Marketing board.
- Rationalisation of market fee.

Benefits

- Farmers fetch better price for their produce while the consumers get products at lower prices.
- It helps the government to step ahead in achieving the dream of doubling farmers income by 2022.
- As the raw materials are available at lower prices the prospects of food process sector will enhance.
- Healthy food inflation can be maintained by RBI.
- The farmers have choice to sell their produce to multiple buyers as there is provision of several marketing channels.
- Traders can transact in all markets through out the state by paying a single fee.
- Provision of farmer seller payment on same day or else an additional payment of 1% of total produce value per day upto five days and further delay in payment could lead to cancellation of licence for one year.

So far as perishable produce markets are concerned, many state governments are increasingly delisting fruits and vegetables from the APMC regulation. But, it is not bringing any benefits to the farmers other than lowering the transaction cost for buyers and the APMC losing the market

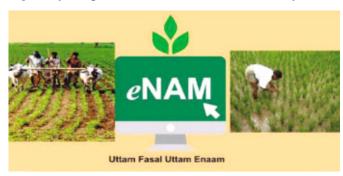
fee. It would have been better if the deregulation was permitted only for those players who go to buy directly from farmers or enter into contract farming arrangements which should have brought benefits of better prices, lower transaction cost, and better technology to farmers.

So far 26 states and Union Territories, including Andhra Pradesh, Gujarat, Maharashtra, Karnataka, Rajasthan, Madhya Pradesh and Uttar Pradesh, have fully or partly modified their APMC laws. Other than Bihar, all other states/UTs have agreed to adopt the model Act.

The committee on doubling farmers income recommends the rolling out of model act APLM, 2017 would promote direct interface between farmers and consumers and provide farmers an opportunity to sell their produce at better price. The Govt. in its endeavor to offer better price to farmers formulated a high level committee under the chairmanship of Devendra Fadnavis, The Hon'ble Chief Minister, Maharashtra and other state ministers as members to recommend structural reforms in agriculture, in addition to market reforms and norms for contract farming. In the way forward in doubling farmers income

there is a need to integrate wholesaling, warehousing, logistics, processing and retailing with farming to ensure better prices for farmers produce.

Since agricultural market reforms are about giving farmers a choice of channels, therefore, all channels i.e. direct purchase, contract farming, farmer-consumer market yard, private wholesale market, and APMC need to be promoted and regulated as one or two channels can't provide effective marketing facility for all farmers, especially marginal and small farmers in India in any state.



e - National Agriculture Market (eNAM)

SUCCESS STORY

PJTSAU Succeeds in Promoting Millets

One of the most recognized systems of cropping, the intercropping augments the utilization of available light, moisture and nutritional factors with reference to space and time, increases the cropping intensity and production per unit area, time and inputs by growing two or more component crops in appropriate geometry. The time tested formula brought wonders in the red soils of Telangana.

Few mandals of Rangareddy Dist. in Telangana state suffered from low rainfall for the past five years hence resulting in farmers incurring losses by cultivation of sole crops like paddy, cotton, jowar, coriander etc. In Ibrahimpatnam division dry spells coincided with tasseling and silking stage of maize, while cotton raised in red soil suffered due to drought and sucking pest complex resulting in yield loss of 40-50%.



Jowar + Redgram at farmers field

The Jowar + Redgram (4:1) intercropping system was introduced in fields of 70 farmers spread over 28 ha while Bajra + Redgram (4:1) intercropping was introduced in fields of 45 farmers in 18 ha at Gaddamallaiahguda, Gungal & Rangapur villages of Manchal & Yacharam mandals under Ibrahimpatnam Division of Rangareddy district. The high yielding varieties of sorghum (PYPS-2) and bajra hybrid (PHB-3) recorded a grain yield of 1640 kg/ha and 1210 kg/ha respectively, which were 16.5% and 15.2% higher over local varieties of sorghum (1409 kg/ha) and bajra (1050 kg/ha).

Intercropping systems of Sorghum + Red gram or Bajra + Redgram gave net income of Rs. 46450/- and Rs 28684/respectively, compared to sole crop of Sorghum (Rs 22450/-) or Bajra (Rs 5960/-). While intercropping sorghum with Redgram or Bajra with Redgram recorded yield of 2877 kg/ha and 3718 kg/ha compared to sole crop of sorghum 1669 kg/ha or bajra 1420 kg/ha. The DAATTC Rangareddy has played a pivotal role in further scaling up the technology to farmers of the district through AKPS portal, mass campaigning at village levels, mass media, distribution of HYV's of Sorghum (PYPS 2), Pearl millet (PHB 3) & Redgram (Ujwala), organizing training programmes during pre *kharif* & important crop stages, creating awareness on vertebrate pest management and organizing demonstrations and field days. The demand for seed from farmers was for about 50 ha and the DAATTC Rangareddy facilitated the procurement of seed from Regional Agricultural Research Station, Palem.



DAATTC, Rangareddy scaling up the technology

The farmers J. Suresh Reddy from Gaddamallaiahguda Village, P. Ramalaxmama and Y. Yadagiri from Rangapur villages were impressed with the technology as they gained profits by marketing their produce as seed to their fellow farmers and the intercropping system also helped them to sustain their livestock with the fodder obtained. Encouraged by the performance of Sorghum (PYPS-2) and Bajra (PHB-3) DAATTC, Rangareddy in coordination with NICRA project at RARS, Palem and State Agricultural Department is promoting it in the cropping systems of the district with an assurance to supply quality seeds to the farmers in the district.

Institutional Activities - Show of Reverance and Responsibilty

No Tobacco Day

"No Tobacco Day" was observed at College of Agriculture, Rajendranagar on 31st May, 2019 with the theme 'Tobacco and lung health". Dr. Seema, Associate Dean in her address urged the students not to fall prey to tobacco consumption in any form. Dr. G. E. Ch. Vidyasagar, professor agronomy explained the ill effects of smoking on health, while Dr. B. Padmaja, NSS Programme Officer made a presentation on the effects of tobacco on human health. Dr. Uma Devi and Dr. Manohar Rao Members, Board of Management, PJTSAU, Staff and Students of the college participated in the programme.



Poster presentation on ill effects of Tobacco on human health

International Yoga Day

The constituent institutes of PJTSAU celebrated 5th International Yoga Day on 21st June, 2019. Sri Mulchand Sharma, yoga teacher demonstrated yogasanas to the staff and students of the college of Agriculture, Rajendranagar. Later a guest lecture on importance of yoga on personal well being was delivered by Dr. Amarnath Kulkarni at college auditorium. All the institutes at PJTSAU have organized yoga campaigns by Yoga gurus and the staff and students actively participated in the programme.



International Yoga Day at Agricultural College, Warangal

International Biodiversity Day

Agricultural College, Warangal celebrated International Day for Biodiversity (IBD) on 22^{nd} May, 2019 with a focus on spreading awareness of the dependency of our food systems, nutrition, and health on biodiversity and healthy ecosystems based on the theme "Our Biodiversity, Our Food and Our Health" announced by the Secretariat of the Convention on Biological Diversity . On the occasion essay writing and group discussion were organized on the theme at the campus. Dr. T. Ramesh, Associate Dean underscored the role of agricultural graduates in protecting biodiversity and to safeguard the life on earth.



Planting of trees on the occasion of International Biodiversity
Day at Agri. College, Warangal

Celebrations

Birthday Celebrations of Famous Social Reformers

The University celebrated birth anniversaries of eminent social reformers of our nation by paying homage to them. The 112th birthday of Babu Jagjeevan Ram was celebrated on 5th April, 2019, while 193rd birthday of Mahatma Jyothiba Phule was celebrated on 11th April, 2019 and 128th birthday of Dr. B.R. Ambedkar on 14th April, 2019. All the constituent

institutes of the university celebrated their birthdays by paying floral tributes and recalled the contributions made by them to the nation. University recalled the contributions made by Professor Jayashankar on his death anniversary on 21st June, 2019 and as a mark of respect paid floral tribute and observed two minutes silence.



Babu Jagjeevan Ram birthday celebrations at College of Food Science and Technology, Rudrur



Dr. B.R. Ambedkar birthday celebrations at University

Telangana Formation Day

Professor Jayashankar Telangana State Agricultural University (PJTSAU) celebrated the 5th Telangana State Formation Day on 2nd June, 2019 at all its Campuses in a befitting manner. The Hon'ble Vice Chancellor of PJTSAU Dr. V. Praveen Rao hoisted the National Flag and speaking on the occasion he stated that, the food grain production has been increased to nearly 100 lakh metric tons from 56 lakh metric tons in 2014. He urged the faculty to strive

hard to achieve highest rank in the country among Agricultural Universities. He further emphasized the need to publish research articles in highest rated journals and securing more number of Senior Research Fellowships & Junior Research Fellowships. He said Telangana has become role model to the entire country by the dynamic reforms brought in agriculture by the Hon'ble Chief Minister.

Annual Day Celebrations



Sri Tammareddy Bharadwaj addressing the students at College of Agriculture, Rajendranagar

The constituent colleges of PJTSAU celebrated the Annual day with fun and frolic. The College of Agriculture, Rajendranagar celebrated College day on 4th April, 2019 wherein Sri Tammareddy Bharadwaj, an eminent film maker and producer, Telugu Film Industry was the Guest of Honour. The college magazine *KRISHIK* was released by Sri T. Bharadwaj along with other guests, Dr. A. Manohar Rao, Dr. Jella Satyanarayana, Dr. D. Vishnu Vardhan Reddy, Staff and Students participated in the celebration.



Winners with dignitaries at Agricultural College, Jagtial

The tenth college day celebrations of Agricultural College, Jagtial was held on 25th April, 2018. Sri Ch. Rajeswar Rao, Chairman, Karimangar Milk Producer Co. Ltd. was the guest of honour, while Sri Mass Avinash, Jabardasth Fame was the special guest and Dr. D. Vishnu Vardhan Reddy, Dean of Student Affairs, PJTSAU presided over the celebrations. The College Magazine "Harithakshari", Reminiscence (IV year) was released by guests.



Release of Akruthi by dignitaries at Agricultural College, Palem

The Second College Day Celebrations of Agricultural College, Palem- *Avani* was held on 4th May, 2019. The chief guest Sri Jogula Chenniah, Additional Superintendent of Police, Nagarkurnool in his address emphasized on importance of a good career and explained ways and means to achieve it. The College magazine "Akruthi" a compendium of diverse talents of students in art and literature was released by the chief guest along with other guests.



Cultural Programme at College of Community Science, Saifabad

The college day was celebrated at the College of Community Science with lot of fun and fervor. Dr. V. Vijaya Lakshmi, Dean of Community Science. PJTSAU and the guest of honour in her address advised the students to work hard and achieve their goals in life and also suggested sincere and dedicated efforts to lead the best life in the society. The College e- magazine "Smriti" was released by the guests on the occasion.

Patron-in-Chief

Dr. V. Praveen Rao

Chief EditorEditorAssistant EditorDr. Ch.Venu Gopala ReddyDr. V. AnithaSmt. M. Pallavi

Published by Principal Agril. Information Officer, Agricultural Information and Communication Centre and PJTSAU Press, Rajendranagar, Hyderabad -500 030, Telangana State, Phone no. 040 24015380, Email: pjtsau.editor@gmail.com. Printed at PJTSAU Press, Rajendranagar, Hyderabad -500030, Telangana State.

Pub.No. 53/NL/PJTSAU/2019