



12<sup>th</sup> Swadesh Prem Jagriti Sangosthi - 2020



# Global Conference on INNOVATIVE APPROACHES FOR ENHANCING WATER PRODUCTIVITY IN AGRICULTURE INCLUDING HORTICULTURE

28-31 May, 2020, PJTSAU,  
Rajendranagar, Hyderabad, Telangana,  
India

Organized by



**ASM FOUNDATION**

New Delhi, India



Prof. Jayashankar Telangana  
State Agricultural University  
(PJTSAU), Rajendranagar, Hyderabad,

In collaboration with



Jain Irrigation Systems Ltd,  
Jalgaon, Maharashtra



Confederation of Horticulture  
Associations of India (CHAI), New Delhi



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# **Global Conference on Innovative Approaches for Enhancing Water Productivity in Agriculture including Horticulture**

May 28-31, 2020, PJTSAU, Rajendranagar, Hyderabad - 500030, Telangana State, India

One of the critical challenges that we face today is the resolution of the water crisis, as many of the countries and regions may face an acute water deficit by 2030. Despite massive efforts and investment in developing water resources for agriculture, in the last century and beyond, 60 per cent area does not have access to reliable and safe water. With increasing population, rising income, urbanisation and industrialisation, availability of water for agriculture will further decline putting pressure to produce more with less water, to meet food and nutritional security, necessitating concerted efforts in developing technologies, creating infrastructure, logistics and methodologies for enhancing irrigation efficiency to achieve improved water productivity for safeguarding the food, nutrition and environmental security. Since several decades, efforts have been made to maximise the output per unit of water through the development of cultivars, agronomic practices, plant health care and change in concept of irrigation from watering the land to watering the plants. The focus has come to **Per Drop More Crop** or **More Crop per Drop**, through the use of micro irrigation, which has expanded to regions and crops. Thus enhancing water productivity has been gaining acceptance across the globe for ensuring food and nutritional security, enhancing farmers' income and to ease water scarcity. The task at hand is to understand, how to increase water productivity, which requires several stakeholders to work in harmony at plant, field, irrigation-system and river-basin levels, as water use and management in agriculture, encompasses many different scales: plants, fields, farms and delivery systems. To produce one Kg of rice under water logging conditions invariably needs 3500 litres of water, but with change in delivery systems from flood to drip, the water requirement is only 1100-1200 litres, with further scope for enhancing water productivity. There are many agronomic practices like crop geometry, canopy management, crop sequencing and mulching, and use of high yielding and less water requiring varieties, which can improve water productivity. Indian agriculture including horticulture have made rapid strides in the past decades through technological changes, policy initiatives, incentivisation

and investments, leading to food surplus in the country. To enhance the access to water and to enhance efficiency, Government of India is implementing the programme of *Pradhan Mantri Krishi Sinchayee Yojana*. (PMKSY) with focus on Per Drop More Crops and is promoting Micro-irrigation to enhance irrigation efficiency and has covered 12 million hectares of 69 million hectares identified for micro-irrigation. Impact of micro-irrigation on enhancing water productivity and income of farmers is appreciably high, especially when nutrients are also applied through the system, referred to as fertigation. Appreciable technological changes to enhance the acceptability of the system is noted during the decade, and farmers are shifting to automated system for enhanced precision. However, many policy changes and higher investments would be needed for effective promotion of micro irrigation to enhance water productivity. Recognising that agriculture has a lot of potential for water productivity gain, right policy, institutions and market incentives will be required with change from supply driven to demand driven and service oriented water management. Therefore, to discuss and develop strategies for enhancing water productivity, a global dialogue is necessitated. Accordingly, the **ASM Foundation, New Delhi** and **Professor Jayashankar Telangana State Agricultural University (PJTSAU)**, Telangana is organizing a **Global Conference on "Innovative Approaches for Enhancing Water Productivity in Agriculture including Horticulture"** at PJTSAU, Rajendranagar, Hyderabad, Telangana, India, **28-31 May, 2020**. The conference will have the collaboration of the **International Water Management Institute**, Sri Lanka, **Trust for Advancement of Agricultural Sciences (TAAS)**, New Delhi, **Jain Irrigation Systems Limited (JISL)**, Jalgaon, **ISDA**, Hyderabad and **Confederation of Horticulture Associations of India (CHAI)**, New Delhi.

The conference will also host many other important activities namely, Water Expo-2020, Horticulture Show, National Level Essay Competition, Farmers' Quiz and distribution of quality Seeds & planting

material to the farming Community and conferment of Awards and Post Conference Tours. The *Shodh Chintan*, will be published, where, there is opportunity for sponsorship as well as showcasing activities through advertisements and participation in the Exhibition.

We have immense pleasure in inviting you to this conference being organised during 12<sup>th</sup> Swadesh Prem Jagriti Sangosthi-2020, to provide your valuable inputs for developing strategic recommendations. Your active participation, in the Global Conference and activities to be organised during the Sangosthi, will be highly appreciated. Once again we solicit your kind cooperation in addressing vital issues of Water Productivity for ensuring Food and Nutritional security of the growing population.

**Dr. Praveen Rao**  
Vice Chancellor, PJTSAU  
Rajendranagar, Hyderabad  
Chairman, Organizing Committee

**Mrs. Bimala Singh**  
Managing Trustee  
ASM Foundation  
Organizing Secretary

### Themes of the Conference

- Analysis of past trend in innovations for enhancing water productivity and envisioning the needs for shaping future agriculture and horticulture.
- Envisioning the challenges and tasks for achieving the innovative management of water.
- Understanding smart management system for effective utilisation of resources aimed at improving factor productivity.
- Designer crops and their management for improving water productivity and enhancing input use efficiencies.
- Biotechnological Innovations for enhancing water productivity.
- Innovative technology to address the challenges of More Crop per Drop.
- Climate smart system for adoption and mitigation to climate change for risk management and sustained farm income.
- Enhancing productivity of inputs through innovations in water management.
- Developing farming practices and technologies to Produce More with Less.
- Paradigms in Innovations and its application for smart agriculture and horticulture.

- Human resource availability and strategic approaches of development.
- Strategies for skill and knowledge empowerment of the farmers.

### Expected Outcome

- Enhanced understanding on techniques for enhancing water productivity in Agriculture including Horticulture to produce more with less land and water.
- Understanding of the needs for strategic approaches and new innovations in enhancing water productivity.
- Inputs for policy formulation on resource management for shaping future agriculture and horticulture.
- Improved farm practices and technologies for enhancing farm output for climate smart agriculture and horticulture.
- Envisioning the technological changes and innovations, which can succeed in achieving the goals of food and nutritional security.
- Identification of technologies and training needs to address the challenges of improved water productivity for improving farm profitability.
- Integration of approaches in production and marketing of diversified products.
- Developing approaches for Innovative water productivity enhancement.
- Understand and address the water quality and management in agriculture including horticulture.

**The organisers shall also facilitate field visits and post-conference tours to the sites of interest.**

**Conference shall deliberate on the issues in the thematic areas across 21 technical sessions.**

### Technical sessions

- National International Scenario of Innovations in Enhancing water Productivity.
- Innovations in Research and Development for Enhancing Water Productivity.
- Innovations in Improving Water Productivity in Cereals, Pulses, Oil Seeds and Cash crops.



- Innovations in Production System of Perennial Horticulture for Enhanced Water Productivity
- Innovations in Production System for Vegetables, Tubers and Spices for Enhanced Water Productivity
- Innovations in Climate Smart Production Systems for Enhancing Water Productivity
- Basin Management and Delivery System - Approaches of Source to Roots
- Waste Water Recycling for Use in Agriculture including Horticulture
- Innovation in Technological Paradigm for Effective Water Productivity Enhancement
- Innovations in Designer Crops for Enhancing Water Productivity
- Biotechnological Innovations for Improving Water Productivity of Crop and Horticulture .
- Innovation in Water Conservation and Management to Enhance Productivity of Water
- Innovations and New Paradigm in Nutrient Management for Enhanced Productivity of Nutrients
- Innovations in Plant Health Care for Enhanced Productivity of Water
- Innovation in Bio- Healthy Food with Enhanced Water Productivity (Organic Farming)
- Innovations in Technology Dissemination for Enhancing Water Productivity
- Innovations in Shelf Life Enhancement and Processing Under Enhanced Water Productivity
- Farmers' Participatory Interactions for Enhancing Water Productivity
- Linking Farmers to Market for Enhanced Water Productivity
- Farmers' Quiz for Knowledge Empowerment
- Human Resource Development for Enhancing Water Productivity

### Thematic Workshop

A workshop specially designed to address the issues – Enhancing Water Productivity and Resilience to Climate Change in Rainfed Region shall be organised by ISDA and convened by Dr. G. Chary, President and others.

### Dates to Remember

Receipt of abstract	: March 31, 2020
Receipt of Registration Form	: March 31, 2020
Receipt of Full Paper	: April 30, 2020
Receipt of Requisition for Water Expo-2020	: April 30, 2020
Conference	: May 28-30, 2020
Post Conference Tour	: May 31, 2020

*No changes in above dates shall be made. Registration will be done on first come first basis. All the potential participants are requested to adhere to schedule to avoid last minutes disappointments*

### Call for Papers

The organising Committee of the Global Conference cordially invites papers on the above topics in the thematic areas for consideration in oral/ poster presentations under respective technical sessions during the conference. Authors may indicate their preference of technical session for presentation.

### Lead Papers/Keynote Lecture

Eminent researchers of international repute will be invited to deliver keynote lecture on topics related to different technical sessions of the conference and the same will be published. Plenary Lectures from specialised experts, identified by the organising committee, will be delivered on the first day of the Conference.

### Oral Papers

Among the abstracts accepted, 7-10 selected papers will be considered for oral presentations under each of the technical sessions. Each oral presentation would be allotted 8-10 minutes. Power Point Presentation of the same are required to be handed over to the conveners of the respective sessions, at least a day in advance.

### Poster Papers

The other contributed papers will be selected for poster sessions, organised concurrent to the concerned sessions at specified time. The authors of the posters are required to be present at the venue near their posters during the respective poster sessions for presentation to the participating delegates. Facilities for poster through Web will also be made available.

### Submission of Abstract

Abstracts are to be submitted to **asmglobal20@gmail.com** as Microsoft Word file. Authors should specify the session in which they would like to present

the papers. The abstract(s) of the contributed papers should not exceed 300 words. The full length papers should not exceed 10 pages in 12 font size in Times New Roman in 1.25 spacing as Microsoft Word file. Abstracts will be published in the **Book of Abstracts (ISBN No.978-81-932266-8-1)** upon registration only, by the due date. Full paper will be published in special issue of International Journal of Innovative Horticulture, vol. 9. Thus author may follow the author's guidelines of the Journal.

### Best Paper/Poster Award

The best five oral and 10 poster presentations will be selected by the jury of eminent scientists and will be awarded with plaque of honour and certificate from the organisers.

### REGISTRATION

Registration can be done by sending DD drawn in favour of Lt. Amit Singh Memorial Foundation, New Delhi. Alternatively, it can be sent by NEFT, A/c No.169001000009941, IFSC –IOBA001690, Indian Overseas Bank, Sector-10, Dwarka, New Delhi.

Type of delegates	Early bird registration (up to 31 <sup>st</sup> March 2020)	Registration fee
International delegates*	US\$ 700	US\$ 900
Delegates	Rs. 8500/-	Rs. 9000/-
Corporate / Company	Rs. 12000/-	Rs. 15000/-
Farmers / Students	Rs. 5000/-	Rs. 5500/-
CHAI Members	Rs. 8000/-	Rs. 8500/-
TAAS Members	Rs. 8000/-	Rs. 8500/-

### ACCOMMODATION

Accommodation shall be provided in guest houses. The other delegates have to stay in hotels, the tariff for hotel ranges between **Rs. 3000-7000**. Delegates may write for hotel bookings or guesthouse bookings at an early date. Please confirm your participation and itinerary by sending e-mail to **asmglobal20@gmail.com**. The organisers will facilitate the reservation of the accommodation as desired by delegates, by booking in advance. This facility will be provided to registered delegates only.

### OTHER IMPORTANT ACTIVITIES

On the site of the Conference, the organisers shall facilitate the following events harmonising the conference motto:

#### Water Expo-2020

National level exhibition, **Water Expo-2020** will be organised at the venue, which will provide an opportunity for learning by seeing. The exhibition is

expected to have large number of exhibits from across the country, comprising of producers, traders, processors, technology developers and progressive farmers to showcase the strength in technology and inputs. The exhibition will provide interactive platform for learning by seeing, buyer and seller interface and promote business in Agriculture/ horticulture including, inputs, ICT, marketing skills and human resources. For booking of the required space Sidharth Gautam, Development Foundation, an event management company, can be contacted at [director@developmentfoundation.org](mailto:director@developmentfoundation.org) phone 9810585797, with a copy to us at [asmglobal20@gmail.com](mailto:asmglobal20@gmail.com) also visit at **www.asmglobal.in / www.confedhorti.org** for further details.

### Talent Search in Agriculture

In order to inculcate competitiveness, leadership, communication skill and patriotism among the youth a National Essay Competition is organised at the national level for the students. The topic of essay is **Innovative Approaches for Enhancing Water Productivity in Agriculture including Horticulture**. The jury will select the ten best essays and the selected candidates will be given the opportunities for elocution and the group discussions. The participants will be evaluated by a jury comprising of educationists and eminent personalities for first, second and third positions in order of merit. Successful students will be given the cash prizes of Rs 15,000/-, Rs10,000/- and Rs 5,000/- for 1st, 2nd and 3rd positions, respectively, with a certificate of merit. Other participants will be given certificate of participation. Last date for submission of ESSAY on the topic above is 31st December, 2019.

### Empowering Farmers with Knowledge and Skills

The programmes of the conference have been designed keeping in view the requirements of farmers for new skills and knowledge on technology led development. An Open Session is organised during the conference which provides opportunities for the farmers to put their views before the experts and get answers to their Questions. This programme is helpful in developing recommendations keeping farmers at centre stage.

#### Farmer's Quiz

Infusion of knowledge on technology-led development necessitates competition among the farmers that enables them to acquire knowledge.

Accordingly, to encourage the farmers' participation, the foundation has instituted the programme **Farmers Quiz**, in which any farmer can participate by registration. The programme will be organised on May 30, 2020 and winners will be awarded in cash or kind with Plaque of Honour and certificate.

### Distribution of Quality Seeds and Planting Material

Fruit plants and seeds of vegetable crops and other economically important crops will be distributed to the farmers for facilitating the dissemination of improved technologies.

### Programme on Ethics and Values

The youth needs to be motivated and provided skills for effective management of knowledge. In this pursuit, discourses will be organised which will be addressed by experts in human resource development. The discourses will have focus on ethics, values, motivation, and intellectual property issues in the knowledge driven society and devotion to duties to achieve optimum results. A crash course/programme on personality development shall also be part of the event.

### Cultural Programme

A cultural programme with the theme of National integration and values shall be organised for the leisure and entertainment of the delegates in the evening of May 29, 2020.

### Awards of ASM Foundation

The Foundation has instituted different awards for outstanding contribution by farmers/ scientists/ industry, who have made the difference through their contributions in horticulture. Selected awardees are honoured with Plaque of honour, Citation and Certificate. **Amit Krishi Rishi Award** recognises the outstanding contributions in the field of agriculture/ horticulture, which have shaped the Indian agriculture/ horticulture **Amit Padam Jagriti Award** recognizes the outstanding contributions of farmers/industry, which has created impact through technological innovations and its adoption by farmers and **Amit Prabudh**

**Manishi Award** recognizes exceptional contributions of the academic leaders in the field of Education and Human Resource Development, particularly agriculture and horticulture. These awards are conferred annually based on the recommendations of the search committee It and approval by Board of Trustees.

**Udyan Ratna Award** is conferred to recognize the outstanding contribution of farmers. The Foundation honours the farmers from across the country for their achievements in enhancing productivity and profitability of farm through the innovations, besides their contribution in linking farmers to market and thereby improving their economic status.. The farmers are nominated by Head of any agriculture/ horticulture institute/ university/ research organisation/ state government, department of agriculture/ horticulture or President/Vice presidents' of societies like Agriculture/Horticulture/ related fields or Awardees of Udyan Ratna, Padma Bhushan or other reputed awardees of the country. The award is conferred during the valedictory function, based on recommendation of high-level committee and approval by the Board of Trustee.

Awards of CHAI and Mehta Foundation are also conferred on First day of the Conference.

### VALEDICTORY FUNCTION

Valedictory function shall be organized on May 30, 2020 to confer Udyan Ratna Award to farmers and prizes for best papers, posters and exhibition stalls in the conference and also to develop an action plan on the recommendations of different technical sessions.

### PUBLICATION OF SHODH CHINTAN

A book, **Shodh Chintan (ISBN 978-81-932266-7-4)**, will be brought out on the occasion which will have space for advertisement. Organizer may be approached for booking the space for advertisement by interested organization. Tariff for advertisement is Rs50,000/- for full page colour and Rs30,000/- for half page colour.

Category	Amount (in lakh)		Benefits		Advertisement
		Free registration	Logo in Banner	Profile of the company	
Platinum	10	10	Y	Y	Full Column
Diamond	05	05	Y	Y	Full page colour
Gold	03	03	Y	Y	Half page colour
Silver	02	02	Y	X	X
Bronze	01	01	X	X	X

## SPONSORSHIP

The Swadesh Prem Jagriti Sangosthi, 2019 and the Conference provide opportunities for sponsorship, which are in different categories. The benefits to sponsors in different categories are:

The name of sponsors will be depicted prominently in backdrop and publication, besides, giving free registration and exhibition space and advertisement in souvenir (ShodhChintan-ISBN 978-81-932266-7-4).

## ABOUT THE PLACE

Hyderabad is connected by rail road and air from all cities as well as abroad, and is a well known place historically and also for agricultural research and education, as many ICAR institutes are located in and around. The weather

during the period would be warm.

## POST CONFERENCE TOUR

Hyderabad is the capital city of the Indian state, Telangana, a popular choice among tourists for the replete with beautiful monuments having historical significance and a famous Ramoji Film City. It has a rich mixed culture that makes it home to some brilliant architectural specimens reflecting the different colours on the spectrum. Post-Conference tour will be organised to visit various places of interest in the region including the fields of progressive farmers. Important places to visit are, Charminar, Salar Jung Museum, lakes, Golkonda Fort, etc. The tour shall be organised on the request of the delegates.

## ABOUT THE ORGANIZERS

**ASM Foundation**, an ISO 9001:2008 certified organization is committed to economic development and knowledge empowerment of people through various activities. It has head quarter at New Delhi, India. The ASM Foundation has successfully organised Global and National Conferences, in the country and is known nationally and internationally. The Foundation, besides organising the conferences, exhibitions, and farmer's friendly activities, is committed to education, health care and economic development. The Foundation also confers awards in various categories to recognise the contribution of individuals/ organization. The effort of the Foundation is recognised by conferring awards by many institutions. [www.ltamitsingh.org](http://www.ltamitsingh.org)



**The Professor Jayashankar Telangana State Agricultural University (PJTSAU)**, established on 3<sup>rd</sup> of September, 2014, is strategically located on a campus of 2538 acres, at Rajendranagar, Hyderabad, Telangana, India. The university, has 5 Agricultural Colleges, one college each of Agricultural Engineering, Food Science and Technology and Home Science, and offers 4 UG, 21 PG and 17 Ph.D programmes in various faculties, besides skill-oriented Diploma Courses through its thirteen polytechnics, with faculties strength of 540. The university is ranked at 6th position among the agricultural universities, The University has smart classes, accredited laboratories and world class library, excellent

in research facilities, multi-disciplinary teams working in 15 research stations and 27 AICRPs, two All India Network Projects and 8 Krishi Vigyan Kendras. has developed many varieties and technologies. The PJTSAU is committed to develop professionals for agri-education, research, extension and talented human resource to meet the challenges in agriculture. <https://pjtsau.edu.in>



## ABOUT THE COLLABORATORS

**The Trust for Advancement of Agricultural Sciences (TAAS)** was established on 17 October 2002 for harnessing the agricultural sciences for the welfare of the people through scientific interactions and partnerships. The TAAS acts as think tank on key policy issues relating to agricultural research for development (ARD). The main activities include organizing foundation day lectures, special lectures, brain storming sessions/ symposia/ seminars/ workshops on important themes, developing strategy papers on key policy matters, promoting farmers' innovations and conferring Dr. M.S. Swaminathan Award for Leadership in Agriculture. [www.taas.in](http://www.taas.in)





**Jain Irrigation Systems Ltd. known as JISL**, India is a multinational organization with global presence in 120 countries, provides solution for efficient management of water, protected cultivation, quality planting material, farmers access to market and processing, solar energy, waste utilization, and education. The company is one of the largest agro-based company in the world and have many innovations to its credit. The company in its recognition has been conferred with highest national award and much International recognition. [www.jains.com](http://www.jains.com)



**Confederation of Horticulture Association of INDIA (CHAI)**, an ISO 9001:2008 certified, non-profiting organization, is a forum of stakeholders in horticulture/agriculture to work together in mission mode with set goals and objectives. The aims of CHAI are the furtherance of horticulture/ agriculture research and development, through; conduct and support in organizing of National/International conference, workshops, publication of journal- International Journal of Innovative Horticulture. To bring the competitiveness the CHAI has instituted various awards to motivate the innovators for the excellence in research, education, extension, teaching and farming. [www.confedhorti.org](http://www.confedhorti.org)

## Advisory Committee

<b>Chairman</b>	: Dr. R.S. Paroda, Former Secretary DARE and DG, ICAR and Chairman, TAAS
<b>Co-Chairman</b>	: Dr. R.B. Singh, former ADG, FAO Regional Office, Bangkok, Thailand Dr. Ashok Dalwai, CEO, NRAA, New Delhi
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<b>Convener</b>	: Dr. H.P. Singh, Former DDG (Horti), ICAR and Chairman, CHAI, New Delhi

## National Organising Committee

<b>Chairman</b>	: Dr. G. Trivedi, Chairman ASM Foundation (Former Vice-Chancellor RAU, Pusa)
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Dr. Villas A. Tonapi, Director, ICAR-IIMR, Hyderabad  
Dr. B. Sarath Babu, Director, ICAR-NBPGR (RS), Hyderabad  
Sri. P. Shyam Sunder, Director, WALAMTARI, Hyderabad

**Organising Secretary General :** Mrs. Bimala Singh, Managing Trustee, ASM Foundation, New Delhi

**Org. Secretary :** Dr. T.B.S. Rajput, Former Head, WTC, ICAR-IARI, New Delhi  
Dr. Babita Singh, Director, CHAI, New Delhi  
Dr. H. Choudhary, ICAR-IARI, New Delhi

**Convener :** Dr. Birpal Singh, Former Director, ICAR-CPRI, Shimla

## Local Organizing Committee

**Chairman :** Dr. V. Praveen Rao, Vice Chancellor, PJTSAU, Rajendranagar, Hyderabad

**Co-chairmen :** Sri. Rahul Bojja, IAS, Commissioner, Department of Agriculture, Government of Telangana  
Sri. L. Venkat Ram Reddy, Commissioner, Department of Horticulture, Government of Telangana  
Dr. G. Malsur, Commissioner, CADA, Hyderabad  
Mr. P. Shyam Sundar, DG, WALANTARI, Hyderabad  
Dr. Ch. Sreenivasa Rao, Director, ICAR-NAARM, Rajendranagar  
Dr. S. Sudheer Kumar, Registrar, PJTSAU, Hyderabad  
Dr. K. Ravinder Reddy, Registrar, Sri KondaLaxmanTelangana State Horticulture University, Hyderabad

**Members :** Dr. J. Satyanarayana, Dean of Agriculture, PJTSAU,  
Dr. K. Sada Siva Rao, Dean of Technology, PJTSAU,  
Dr. V. Vijaya Lakshmi, Dean of Home Science, PJTSAU  
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**Additional Organizing Secretary :** Dr. Seema, Associate Dean, Agriculture College, PJTSAU, Hyderabad

**Joint Organizing Secretary :** Dr. V. Ramulu, Deputy Director of Research, PJTSAU, Hyderabad  
: Dr. Ram Prakash, Professor, PJTSAU, Hyderabad

## Address for Correspondence

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Or

**Dr. R. Jagadeeshwar**, Organizing Secretary and Director of Research, Mobile: 8179540261, PJTSAU, Rajendranagar, Hyderabad. Email [dirres@pjtsau.edu.in](mailto:dirres@pjtsau.edu.in)

Or

**Dr. Seema**, Additional Organising Secretary and Associate Dean, Agriculture College, PJTSAU, Rajendranagar, Hyderabad, Mobile. 9989625201 Email. [ad\\_ca\\_rnagar@yahoo.com](mailto:ad_ca_rnagar@yahoo.com)

