



# National Conference (virtual mode)

on

## Integrated Farming Systems: A Tool for Enhancing Income and Nutritional Security

**(October 5-7, 2021)**



### Convenor



Dr. Ujjwal Kumar  
Director (A), ICAR-RCER

Chief Guest,  
Inaugural Session  
5th Oct, 2021



Dr B.S. Mahapatra,  
VC, BCKV, W.B

Chief Guest,  
Plenary Session  
7th Oct, 2021



Dr V. K. Singh, Director,  
ICAR-CRIDA, Hyderabad

Guest of Honour,  
Inaugural Session  
5th Oct, 2021



Dr A.S. Panwar, Director,  
ICAR-IIFSR, Modipuram,

Guest of Honour,  
Plenary Session  
7th Oct, 2021



Dr Anjani Kumar, Director  
ICAR-ATARI, Patna

### Co-Convenor



Dr. A. K. Chaudhary  
Head (I/c), Division of Crop  
Research, ICAR-RCER

### Organizing Secretary



Dr. Sanjeev Kumar  
Principal Scientist,  
Agronomy, ICAR-RCER

### Co-Organizing Secretary



Dr. Shivani  
Principal Scientist,  
Agronomy, ICAR-RCER

### Other Co-Organizing Secretaries

Dr N Bhakta, Principal Scientist, DCR, ICAR-RCER, Patna  
Dr Rakesh Kumar, Sr. Scientist, DCR, ICAR-RCER, Patna  
Dr Santosh Kumar, Sr. Scientist, DCR, ICAR-RCER, Patna  
Dr Anirban Mukherjee, Scientist, DSEE, ICAR-RCER, Patna  
Dr Kumari Shubha, Scientist, DCR, ICAR-RCER, Patna  
Dr Govind Makarana, Scientist, DCR, ICAR-RCER, Patna

### Registration Link

<https://forms.gle/v8BAXCQmaDcrsXJ7A>



**Organized by : ICAR- Research Complex for Eastern Region, Patna-800 014, Bihar**

Email us: [patna.icar@gmail.com](mailto:patna.icar@gmail.com), Mob:70040 38098



*e-certificate will be  
given to the  
participants who will  
attend all three days*

# About the Conference

Declining per capita availability of land in India is an alarming issue and there is hardly any scope for horizontal expansion of land for food production. Vertical expansion on farmland is possible by integrating appropriate farming components that require less space and time to ensure periodic income to farmers. Further, modest increments in land productivity are no longer sufficient for resource-poor farmers. Hence, intelligent management of available resources, including optimum allocation of resources, is important to alleviate the risk related to land sustainability. Moreover, proper understanding of interactions and linkages among the components will help in improving food security, employment generation as well as nutritional security. This approach can be transformed into a farming system that integrate crops with enterprises such as: agroforestry; horticulture; cow, sheep and goat rearing; fishery; poultry and pigeon rearing; mushroom production; sericulture; and biogas production etc. to increase the income and improve the living standard of small and marginal farmers. An integrated farming system provides an opportunity to increase the economic yield per unit area by virtue of intensification & diversification of crops and integration of allied enterprises. It also offers enough scope for nutrient recycling within the system to economize and sustain the system and minimizes the dependence on chemical fertilizers for crop production to earn more profit. This also generates more employment for the family members throughout the year. An integrated farming system fulfils the multiple objectives of making farmers self-sufficient by ensuring the family members a balanced diet and improving the standard of living through maximizing the total net return which in turn provides more employment, minimizing the risk and uncertainties and keeping harmony with the environment. The National Conference will help in designing a module for sustainable production model and plan for dissemination of IFS technologies to the real stakeholders and thereby enhancing food and nutritional security, employment opportunities, soil health along with environmental harmony in India.





# Lead Lectures and Speakers

5<sup>th</sup> October 2021



Integrated Farming Systems: An overview

**Dr Subhash Chandra, Professor, GBPUA&T., Pantnagar, Uttarakhand**



Methodology and development of vertical farming *w.r.t.* Integrated Farming Systems

**Dr Jacob John, Chief Agronomist, Cropping Systems Research Centre, Kerala**



Integrated Farming Systems for enhancing food and nutritional security for small and marginal farmers of Eastern and Central India

**Dr JS Mishra, Director, ICAR-Directorate of Weed Research, Jabalpur, Madhya Pradesh**



Integrated Farming Systems for Irrigated and flood prone ecosystem

**Dr N. Ravishankar, Project Coordinator, ICAR-IIFSR, Modipuram, Uttar Pradesh**



Integrated Farming Systems for semi- arid and arid zones

**Dr J. P. Tetarwal, Agronomist, Agriculture Research Station, Ummedganj, Kota, Rajasthan**



Farm design and Typology

**Dr A. K. Prusty, ICAR- IIFSR, Modipuram, Uttar Pradesh**

6<sup>th</sup> October 2021



Integrated Farming Systems for Hilly Ecosystem

**Dr Jayanta Layak, PI (AICRP on IFS), ICAR-RC-(NEH) Region, Umiam, Meghalaya**



Integrated Farming Systems for Coastal Ecosystems

**Dr T. P. Swarnam, PI (AICRP on IFS), ICAR-CARI, Port Blair**



Integrated Farming Systems for Western Plains

**Dr L. J. Desai, Professor, Dantewada Agril. University, Gujarat**

7<sup>th</sup> October 2021



**National Conference (virtual mode)**

*on*

# **Integrated Farming Systems: A Tool for Enhancing Income and Nutritional Security**



**October 5-7, 2021**

**Day 1 (5<sup>th</sup> October, 2021)**

## ***Inauguration***

1. **10:30-10:32** Introductory remarks by the Organising Secretary, Dr Sanjeev Kumar, Principal Scientist, DCR, ICAR-RCER Patna
2. **10:32-10:37** A brief note to the participants by the Co-Convenor, Dr A.K. Choudhary, Head, DCR, ICAR-RCER Patna
3. **10:37-10:42** Welcome address by the Convenor, Dr Ujjwal Kumar, Director, ICAR-RCER Patna
4. **10:42-10:47** Remarks by the Guest of Honour, Dr A.S. Panwar, Director, ICAR-IIFSR, Modipuram, U.P.
5. **10:47-10:57** Remarks of the Chief Guest, Dr B.S. Mahapatra, VC, BCKV, Mohanpur, W.B.
6. **10:57-11:00** Vote of Thanks by Dr Shivani, Co-Organizing Secretary

## ***Technical Session***

### **Chairman**

Dr R.K. Sohane, Director Extension Education, BAU, Sabour, Bihar

### **Co-Chairman**

Dr K.K. Sharma, Professor, AAU, Jorhat

### **Rapporteurs**

Dr Santosh Mali and Dr Kumari Shubha

1. **11:00-11:40** Integrated Farming Systems: An overview: Dr Subhash Chandra, Professor, GBPUA&T., Pantnagar
2. **11:45-12:25** Methodology and development of vertical farming *w.r.t.* Integrated Farming Systems: Dr Jacob John, Chief Agronomist, CSRC, Kerala
3. **12:30-13:10** Integrated Farming Systems for enhancing food and nutritional security for small and marginal farmers of Eastern and Central India: Dr J.S. Mishra, Director, ICAR-Directorate of Weed Research, Jabalpur (MP)
4. **13:10-13:15** Panel discussion (All participants)
5. **13:15-13:25** Recommendation and remarks (Chairman & Co-Chairman)
6. **13:25- 13:30** Vote of Thanks (Dr Saurabh Kumar)

## **Day 2 (6<sup>th</sup> October, 2021)**

### ***Technical Session***

#### **Chairman**

Dr K.G. Mondal, Director, ICAR-MGIFRI, Motihari

#### **Co-Chairman**

Dr Devendra Kumar, Professor & Head, Dept. of Agronomy, RPCAU, Pusa

#### **Rapporteurs**

Dr S.K. Mondal and Dr Saurabh Kumar

1. **11:00-11:40** Integrated Farming Systems for Irrigated and flood prone ecosystem: Dr N. Ravishankar, Project Coordinator, ICAR-IIFSR, Modipuram
2. **11:45-12:25** Integrated Farming Systems for semi- arid and arid zones: Dr J.P. Tatarwal, Agronomist, ARS, Ummedganj, Kota, Rajasthan
3. **12:30- 13:10** Farm design and Typology: Dr A.K. Prusty, ICAR-IIFSR, Modipuram
4. **13:10-13:15** Panel discussion (All participants)
5. **13:15- 13:25** Recommendation and remarks (Chairman & Co-Chairman)
6. **13:25- 13:30** Vote of Thanks (Dr Rakesh Kumar/ Dr Kirti Saurabh)

## **Day 3 (7<sup>th</sup> October, 2021)**

### ***Technical Session***

#### **Chairman**

Dr Dileep Kachroo, Director Extension, SKUAT, Jammu

#### **Co-Chairman**

Dr S.S. Walia, Professor, PAU, Ludhiana

#### **Rapporteurs**

Dr Dhiraj Kumar Singh and Dr Kirti Saurabh

1. **10:30-11:10** Integrated Farming Systems for Hilly Ecosystem: Dr Jayanta Layak, PI (AICRP on IFS), ICAR-RC-(NEH) Region, Umiam, Meghalaya
2. **11:15-11:55** Integrated Farming Systems for Coastal Ecosystems: Dr T.P. Swarnam, PI (AICRP on IFS), ICAR-CARI, Port Blair
3. **12:00-12:40** Integrated Farming Systems for Western Plains: Dr L.J. Desai, Professor, Dantewada Agril. University, Gujarat
4. **12:40-12:45** Panel discussion (All participants)
5. **12:45- 12:50** Recommendation and remarks (Chairman & Co-Chairman)
6. **12:55- 13:00** Vote of Thanks (Dr G. Makarana)

## ***Plenary Session***

### **Chief Guest**

Dr V.K. Singh, Director, ICAR-CRIDA, Hyderabad

### **Guest of Honour**

Dr Anjani Kumar, Director, ICAR-ATARI, Patna

### **Convenor**

Dr Ujjwal Kumar, Director, ICAR-RCER, Patna

1. **14:30-14:35** Welcome by Organizing Secretary, Dr Sanjeev Kumar, Principal Scientist, ICAR-RCER, Patna
2. **14:35-14:45** Presentation of recommendations of each Technical Session by Co-Organizing Secretary, Dr Shivani, Principal Scientist, ICAR-RCER, Patna
3. **14:45-14:55** Remarks by Dr Ujjwal Kumar, Director, ICAR-RCER, Patna
4. **14:55-15:10** Remarks by the Guest of Honour, Dr Anjani Kumar, Director, ICAR-ATARI, Patna
5. **15:10-15:25** Concluding remarks and recommendations by the Chief Guest, Dr V.K. Singh, Director, ICAR-CRIDA, Hyderabad
6. **15:25-15:30** Vote of Thanks (Dr Anirban Mukherjee)

### **Note:**

- ❖ It is mandatory for all the participants to be live during the plenary session of the conference at 2:30 PM on 7<sup>th</sup> October 2021
- ❖ Certificate link will be uploaded after the Plenary session



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**on**  
**Integrated Farming Systems: A Tool for**  
**Enhancing Income and Nutritional Security**  
**Organizing Team**

**Convenor**

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Head (I/c) DCR, ICAR-RCER, Patna

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Dr Govind Makarana, Scientist, DCR, ICAR-RCER, Patna

**Technical Session Chairman**

Dr R K Sohane, Director Extension Education, BAU Sabour

Dr K.K. Sharma, Professor, AAU, Jorhat

Dr K G Mondal, Director, ICAR-MGIFRI, Motihari

Dr Devendra Kumar, Principal and Head, Agronomy, RPCAU, Pusa

Dr Dileep Kachroo, Former Registrar, SKUAST, Jammu

Dr S. S. Walia, Professor, PAU, Ludhiana, Punjab

**Rapporteur (s)**

Dr S.S. Mali, Sr. Scientist, ICAR-RCER, FSRCHPR, Ranchi

Dr Kumari Shubha, Scientist, DCR, ICAR-RCER, Patna

Dr Rakesh Kumar, Sr. Scientist, DCR, ICAR-RCER, Patna

Dr Dhiraj Kumar Singh, Scientist, DSEE, ICAR-RCER, Patna

Dr S.K. Mondal, Scientist, DCR, ICAR-RCER, Patna

Dr Kirti Saurabh, Scientist, DLWM, ICAR-RCER, Patna

Dr Saurabh Kumar, Scientist, DCR, ICAR-RCER, Patna