

# TECHNOLOGICAL DEVELOPMENTS IN AGRICULTURAL EXTENSION

Volume - 2

**Chief Editor**

**Dr. Prashant Shrivastava**

Assistant Professor

(Agriculture Extension) College of Agriculture, Balaghat, JNKVV,  
Jabalpur, Madhya Pradesh, India

**Co-editor**

**Uttam Kumar Tripathi**

KVK, Chhatarpur J.N.K.V.V., Jabalpur, Madhya Pradesh, India

**AkiNik Publications**

**New Delhi**

**Published By:** AkiNik Publications

AkiNik Publications  
169, C-11, Sector - 3,  
Rohini, Delhi-110085, India  
Toll Free (India) – 18001234070

**Chief Editor:** Dr. Prashant Shrivastava

The author/publisher has attempted to trace and acknowledge the materials reproduced in this publication and apologize if permission and acknowledgements to publish in this form have not been given. If any material has not been acknowledged please write and let us know so that we may rectify it.

© **AkiNik Publications**

**Publication Year:** 2020

**Pages:** 74

**ISBN:**

**Price:** ₹ 665/-

# Contents

<b>Chapters</b>	<b>Page No.</b>
1. Acid Sulphate Soils and Their Management: An Extension Approach <i>(Risikesh Thakur, Prashant Shrivastava and Shailendra Bhalawe)</i>	01-10
2. Linking Farmers to Market: Role of ICT in Market Led Agriculture <i>(Kamini Bisht, Seema Naberia and Parvez Rajan)</i>	11-21
3. Feedback: A Magnificent Tool for KVKs <i>(Kinjulck C Singh, Chandrajit Singh, Varsha Shrivastava and Manohar Saryam)</i>	23-34
4. Occupational Health and Agricultural Universities <i>(Siddarth Nayak, Prashant Shrivastava and Preeti Sagar Nayak)</i>	35-42
5. Sustainable Agriculture for Food and Nutritional Security: Issues, Challenges and Way Forward <i>(Girijesh Singh Mahra, Pratibha Joshi, Renu Jethi and Punitha P.)</i>	43-55
6. Human Health and Edible Oil <i>(Rupender Kaur, Sushil Kumar Sharma and PK Rai)</i>	57-62
7. Scope & Potential of Emerging Information Technologies & Agriculture Extension <i>(Anupama Verma, P Shrivastava and SB Nahatker)</i>	63-74

**Chapter - 5**  
**Sustainable Agriculture for Food and Nutritional  
Security: Issues, Challenges and Way Forward**

**Authors**

**Girijesh Singh Mahra**

ICAR-Indian Agricultural Research Institute, New Delhi, India

**Pratibha Joshi**

ICAR-Indian Agricultural Research Institute, New Delhi, India

**Renu Jethi**

ICAR-V.P.K.A.S. Almora, Uttarakhand, India

**Punitha P.**

ICAR-Indian Agricultural Research Institute, New Delhi, India



# Chapter - 5

## Sustainable Agriculture for Food and Nutritional Security: Issues, Challenges and Way Forward

Girijesh Singh Mahra, Pratibha Joshi, Renu Jethi and Punitha P.

### Abstract

Nutrition is mandatory for the visualization of human resources especially those of the most vulnerable and disadvantaged as children, girls and women, locked in an intergenerational cycle of multiple deprivation in the nutritional status. Food security exists when all people at all times have physical, social and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life. Mere self sufficiency in food grain production cannot result in steep reduction in undernutrition rates or micronutrient deficiencies in the country because population needs adequate quantities of balanced diet to remain well-nourished and healthy. Being a country in developmental transition, India faces the double burden of pretransition nutrition deficiency disorders and infectious diseases as well as post transition chronic degenerative diseases associated with overweight and obesity. After over 60 years of independence the resistant problem of under-nutrition persists though some of the severe clinical forms have declined in magnitude, except for anaemia has marginally decreased despite increase in population. An attempt was made to highlight the key issues, challenges and way forward from food to nutritional security. To make Indian villages into self sufficient units in terms of nutrition through utilizing village resources and effective nutrition education, there is need to establish connect between agriculture and nutrition. Therefore innovative approaches/models are required to ensure nutrition from farm to plate.

**Keywords:** food and nutrition security, malnutrition, nutrition rich crops

### Introduction

Human nutrition deals with the provision of essential nutrients in food that is necessary to support human life and health. Poor nutrition is a chronic problem often linked to poverty, food security or a poor understanding of