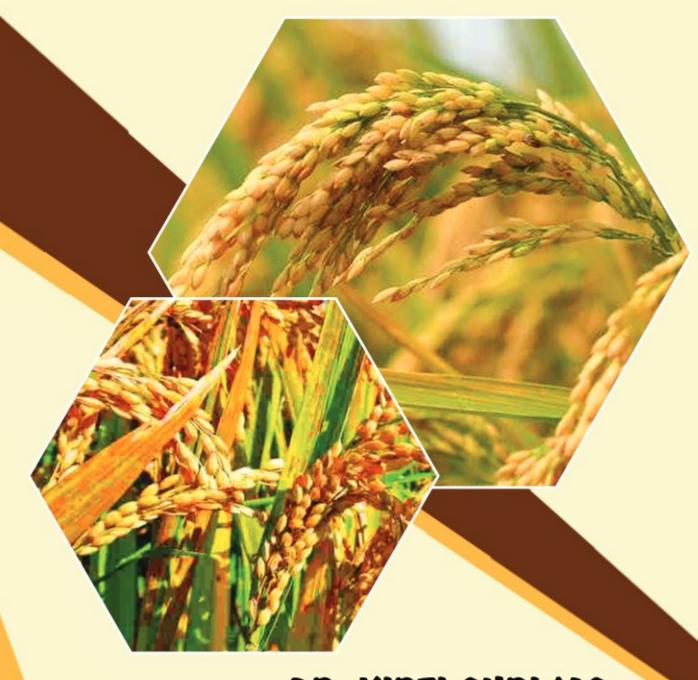
ISBN: 978-93-92568-97-8

MILLETS

THE FUTURE SUPERFOOD FOR INDIA

PROMOTING MILLET'S NEW VARIETIES & NEW MARKETS FOR A BETTER TOMORROW



DR. KIRTI SHRIVAS MS. SWETA PANDEY

"MILLETS" THE FUTURE SUPERFOOD FOR INDIA;

Promoting Millet's New Varieties & New Markets for A Better Tomorrow

Editors Dr. Kirti Shrivas Ms. Sweta Pandey

Assistant Professor Commerce Govt. Kavyopadyaya Hiralal College Abhanpur, Raipur, Chhattisgarh, India



Publisher: Aditi Publication, Raipur, Chhattisgarh, India

"MILLETS" THE FUTURE SUPERFOOD FOR INDIA:

Promoting Millet's New Varieties & New Markets for A Better Tomorrow

Year: 2023 Edition - 01

Editors

Dr. Kirti Shrivas Ms. Sweta Pandey Assistant Professor Commerce Govt. Kavyopadyaya Hiralal College Abhanpur, Raipur, Chhattisgarh, India

ISBN: 978-93-92568-97-8

Copyright© All Rights Reserved

No parts of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, mechanical, photocopying, recording or otherwise, without prior written permission of original Editors.

Price: Rs. 599/-

Publisher & Printed by: Aditi Publication,

Opp. New Panchajanya vidya Mandir, Near Tiranga Chowk, Kushalpur, Raipur, Chhattisgarh, INDIA

+91 9425210308

National Seminar

On

"Millets" The Future Superfood For India: Promoting Millet's New Varieties & New Markets For A Better Tomorrow

2nd - 3rd October, 2023

Organized by:

Department of Commerce

Govt. Kavyopadhyaya Hiralal College Abhanpur, Raipur, Chhattisgarh



Patron Dr. P. R. Sahu Principal

Organizing Secretary

Dr. Kirti shrivas

TO CHOOSE

Coordinator

Dr. Mona Chowhan



Patorn Dr. P. R. Sahu

Principal



Editors

Dr. Kirti Shrivas Ms. Sweta Pandey

Assistant Professor Commerce



Sub Editors

Dr. Mona Chowhan Assistant Professor

HOD (Commerce)

Mr. Atul Kumar Ahirwar Assistant Professor Department of Commerce



Reviewers

Dr. Avinash Kumar Sharma

Assistant Professor, Botany

Dr. Sandhya Vishwakarma

Professor, Hindi

Dr. Divya Chaturvedi

Asst. Professor, English

Dr. Arun Prakash

Asst. Professor, Geography

Dr. Swati Sahu

Asst. Professor, Zoology

Dr. Pratima Rajeev

Librarian

Dr. T. Xaxa

Asst. Professor, Sociology

Dr. Mallika Sur

Asst. Professor, Political science

Dr. Manju Tamarkar

Asst. Professor, Hindi

Dr. Deepa Pandey Chaturvedi

Asst. Professor, Chemistry

Mrs. Sikha Shinde

Asst. Professor, Physics

Govt. Kavyopadyaya Hiralal College Abhanpur, Raipur, Chhattisgarh



PREFACE



Dr. Kirti Shrivas



Ms. Sweta Pandey

Millets are small-grained, annual, warm weather cereal. The millets offer both nutritional and livelihood security of human population and fodder security of diverse livestock population in dryland region of India. Millets are highly nutritious, they are known as health foods especially for control of diabetes and mineral deficiencies. One of the major factors for declining consumption of millets is the lack of awareness of their nutritive value and inconvenience of their preparation this volume.

We are Happy to share the knowledge of the 20 Research papers and articles. These articles have been arranged randomly.

With the aim to create awareness and increase production & consumption of millets.

We are confident that this edited book will present diversified views on the subject and expect that this edited book will be extensively read. In an edited book volume, it is diffucult task to maintain uniform formet. Above all the contents matter. Readers are welcome, to ponit out deficiencies, and or/to forward suggestions to the concerned author as well as to the Editors of this volume.

We convey our sincere gratitude to all those who extended their hands in bringing out this volume. Special thanks to *Dr. Kureel Sir*, Vice chancellor, Mahatma Gandhi Horticulture & Forestery University, *Mr Pankaj Pathak*, State Coordinater (Non Farm Livelihood), National Rural livelihood Mission, Ministry of Rural Development, Government of India.

Our heartful thanks to our principal Dr. P. R. Sahu sir.

Our gretitude to all the authors and researchers who give their informative research papers and articles in this book, and all our colleague who directly and indirectly supported for this book.

Editors

Dr. Kirti Shrivas

Ms. Sweta Pandey

Govt. Kavyopadyaya Hiralal College Abhanpur, Raipur, Chhattisgarh



Message from the Dr. Khadar Valli Padmshri Awardee, The Millet man of India



I congratulate and wish good luck to for GKHC/ Abhanpur on the occasion of conducting this National Seminar on Millets "These activities pave way for a healthy society of future in our country "God bless you all with success development.

With Best Wishes.

Dr. Khadar Valli Padmshri Awardee The Millet man of India



Message from the Principal

भारत एक कृषि प्रधान देश है एवं भारत की बहुतायात जनसंख्या कृषि कार्य में संलग्न है। भारत में जलवायु की विषमता के कारण कई प्रकार की फसले ली जाती है। छत्तीसगढ़ अंचल के बस्तर एवं सरगुजा संभाग एवं मैदानिक क्षेत्र के भूमि में जहां सिंचाई की सुविधा उपलब्ध नहीं है, वहां कोदो, कुटकी, रागी, ज्वार बाजरा की खेती की जाती है।



सिंचाई की सुविधा एवं भूमि में सुधार होने के कारण उपरोक्त श्रीअन्न का उत्पादन नगण्य हो गया। कोदो कुटकी, ज्वार, बाजरा, रागी ग्लूटन फ्री होने के कारण शरीर के लिए फायदेमंद भी होते हैं उनके आहार से मधुमेह जैसी बीमारी नियंत्रित होती है। शासकीय काव्योपाध्याय हीरालाल महाविद्यालय, अभनपुर में वाणिज्य संकाय द्वारा मिलेट सुपर फुड फॉर इंडिया विषय पर दो दिवसीय राष्ट्रीय शोध संगोष्ठी का आयोजन (2.10.2023 एवम 3.10.2023) को किया गया। कार्यक्रम के मुख्य अतिथि डॉक्टर खादर वाली पदमश्री Millet man of India ने मोटे अनाज को आहार में सम्मिलित करने एवं मधुमेह बीमारियों से बचाव के उपाय प्रस्तुत किए। डॉ. गजेंद्र चंद्रकार सीनियर साइंटिस्ट आईजीकेवी के द्वारा उदपादन एवम वितरण पर प्रकाश डाला गया। शोध संगोष्ठी में विभिन्न राज्यों के एवं छत्तीसगढ़ अंचल के बुद्धिजीवियों द्वारा एवं शिक्षार्थियों ने अपने शोध पत्र का वाचन ऑनलाइन एवं ऑफलाइन दोनों पद्धतियों से किया एवं चयनित शोध आलेख का प्रकाशन महाविद्यालय द्वारा किया जा रहा है जिसका मुख्य उद्देश्य जन—जागरण करना एवं Millet को लोगो के आहार में शामिल करना है। इसके लिए मैं आयोजन समिति एवं कार्यक्रम संयोजक एवं पूरे महाविद्यालय परिवार को अपनी शुभकामनाएं देता हूँ। Patricaly

> डॉ. पी. आर. साहु प्राचार्य

शासकीय काव्योपाध्याय हीरालाल महाविद्यालय अभनपुर, रायपुर, छत्तीसगढ़



Message from the HOD Commerce



I am delighted to share our incredible journey of organising national seminar, which gave us a thought-provoking experience, and a platform for intellectual growth that has left an indelible mark on our lives.

This book represents the collective wisdom, diverse perspectives, and unwavering passion of all the participants.

I would like to express my utmost gratitude to all the contributors for their tireless efforts in bringing this book to life. Your unwavering commitment to knowledge and growth shines through these pages and inspires us all.

With Best Wishes.

Dr. Mona Chowhan

HOD, Commerce Assistant Professor Govt. Kavyopadyaya Hiralal College Abhanpur, Raipur



CONTENTS

S.No.	Particular	P.N.
01.	Millet Mission in Chhattisgarh Dr. Kirti Shrivas, Ms. Ekta Rani Makkad	
02.	Millets Unveiled: Exploring Millet Utilization and Mapping Global Trends Mr. Rizwan Ahmed Siddiqui, Ms. Sweta Pandey	
03.	Millets Cultivation in Jammu and Kashmir: Analysing Trends and Patterns Manjeet Kumar, Padam. S. Bisht, Dr. Sarika Verma	25
04.	Millets: The Future of Superfood in India - Research Paper on Entrepreneurship, Startup's Products, and Development Dr. Sampada Bhave, Ms. Nawdeep Kaur Chhabra	35
05.	A Study of Adopted Promotion Strategies to Improve Production and Trade of Millets in India Dharana Agrawal, Dr. Madhulika Agrawal	46
06.	Market Potential and Economic Opportunities in Millet Value Addition With special reference to AMBROSIAL BAKE HOUSE (A Case Study) Dr. Smita Barge, Dr. Rajvansh Kaur Kohli	60
07.	Assessing The Awareness and Buying Behaviour of Millets Among Women Consumers of Raipur City Kaushal Soni Verma, Dr. Ritu Marwah	71

08.	बाजरा मिशन 2023 Dr. Aradhna Shukla, Dr. Ashok Kumar Sharma, Mr. Guptesh Namdev	84
09.	A Study on the Accepatability and Nutritional Composition of Value Added Barnyard Millet Noodles Dr. Surekha N.	100
10.	Ragi- Nutritional, Processing Value Addition and Markets Miss Smita Sahu, Dr. Deepali Rao, Chouras Kumar Gangber	112
11.	Sustaining Livelihoods: Millets And Self-help Groups In Economic Perspectives Ms. Gayathri, Dr.Vijay Kumar Choubey	121
12.	India And Millets- (Rich In Heritage, Full of Potential) Dr. Neelam Gandhi, Dr. Kirti Shrivas	134
13.	मोटे अनाज के उत्पादन, मूल्यसंवर्धन में बाजार की संभावनाएँ और आर्थिक अवसर डॉ. महिमाती सालेन टोप्पो	142
l4.	Government Initiatives for Mainstreaming Millet and Millet-based Products Mr. Sethuraj N	151
15.	Millets: A Cost-Effective Solution for Sustainable Nutrition - Anticipating Tomorrow's Opportunities and Obstacles Dr. Nidhi Goenka	161

16.	A Study of The Importance And Economical Impact of Millets Mr. Deepak Sharma, Dr. Gyanendra Shukla	173
17.	बाजरा : सुपरफूड—खाद्य और पोषण सुरक्षा की दिशा में एक सतत पथ डॉ. ग्रीष्मा सिंह	180
18.	Finger Millet (Eleusine Coracana): A Resilient Crop with High Nutritional Value for Enhancing Food Security Mr. Bhanu Pratap Nayak	188
19.	Millet: The Future Food, Role of Government and Support Systems in India Zeena Premila Cutinha, Dr. S. Sriranjani Mokshagundam	201
20.	पोषण में बाजराः सीलिएक रोग वाले व्यक्तियों के लिए ग्लूटेन-मुक्त विकल्प श्री तरूण कुमार पदमवार	210





Aditi Publication
Opp. New Panchjanya Vidya Mandir, Near Tiranga Chowk,
Kushalpur, Dist.- Raipur-492001, Chhattisgarh
shodhsamagam1@gmail.com, +91 94252 10308

