Agricultural Reviews

Editorial Board

Chief Editor : **P. Sheoran, Director,**
ICAR-Agricultural Technology Application Research Institute, Zone I, Ludhiana, Punjab, India

Associate Chief Editor : **Jagdish Prasad,**
Former Pr. Scientist, National Bureau of Soil Survey and Land Use Planning, Nagpur

Managing Editor : **Gaurav Gupta,** A.R.C.C., Karnal

Editors

Gyanendra Kumar Gaur, New Delhi
D.J. Rajkhowa, Medziphema
Jaspinder Singh, United States
Tusar Kanti Behera, Varanasi
Arun Gupta, Malaysia
M.M. Amanullah, Coimbatore

Members

Amar Pratap Garg, Meerut
Dilip Kumar Sharma, Guwahati
Marcos Erram Bollido, Philippines
Avtar Singh Bimbraw, Ludhiana
Neena Singla, Ludhiana
A.K. Trivedi, Lucknow
Rajesh Kumar Meena, Karnal
Ashok S. Sajjan, Vijayapur
Vo Quang Minh, Vietnam
P. Murali Arthanari, Coimbatore
Abdel-Moneem Sadalaha Khalel, Iraq
Uday Chandra Jha, United States
Shivani Jaggi Guleria, Dehradun
S.P. Dahiya, Hisar
Hasan Basri Jumin, Indonesia
B. Sahadev Reddy, Guntur
S.N. Vasudevan, Bangalore
Balwinder Kumar, Ludhiana
M.C. Manna, Bhopal
V. Thangavel, Mumbai
R.K. Lal, Lucknow
P. Masilamani, Coimbatore
Kirti Gupta, Pune

Executive Members

K.M. Sellamuthu, Coimbatore
Jorge Canul, Mexico
Osama Anwer Saeed, Iraq
B. Ahilan, Thoothukudi
Adam Bush Adam Abdulmoula, Sudan
Arun Kumar Singh, Ranchi,
Paul Njenga Waithaka, Kenya
Samvel Sahakyan, Armenia

Agricultural Research Communication Centre
294, Narsi Village Part 2, Sector 33, Karnal- 132 001, India.
E-mail : contact@arccjournals.com ; editor@arccjournals.com
Website: www.arccjournals.com

AGRICULTURAL REVIEWS

Print ISSN : 0253-1496

Online ISSN : 0976-0741

Print frequency : Bi-monthly

National Academy of Agricultural Sciences (NAAS) Rating : 4.84

Months of Publication:- February, April, June, August, October & December

ARCC Journals are covered in:-

- **BIOSIS Preview**
- **ISI Citation Index**
- **Biological Abstracts**
- **Elsevier (Scopus and Embase)**
- **AGRICOLA**
- **Google Scholar**
- **CrossRef**
- **CAB Abstracting Journals**
- **Chemical Abstracts**
- **Indian Science Abstracts**
- **EBSCO Indexing Services**

AGRICULTURAL REVIEWS

Volume 47 Issue 1 February 2026 **NAAS Rating 4.84**

CONTENT **Page No.**

REVIEW ARTICLES

Heavy Metal Contamination in Vegetables and Their Amelioration: A Review
Sanchita Brahma, Lolesh Pegu, Barnali Saikia, Rajesh Chintey, Dipankar Sonowal 01

Mechanization in Grape Production and Current Requirements in Indian Context: A Review
Chandra Shekhar Sahay, T. Bastewad, R.R. Potdar, Bikram Jyoti,
V.P. Chaudhary, A. Kesav Kumar, Purvi Tiwari, Kamendra, Satish Kumar Singh 13

Techno-economic Efficiency of Micropropagated Industrially Important Crop Plants Heeng, Monk Fruit and Bamboo
Sukhjinder Singh, Manish Kumar, Rohit Joshi 25

Trypanosomiasis in Wild Animals of Tropical and Sub-tropical Region: A Review
Pallav Shekhar, Mritunjay Kumar, Vivek Kumar Singh, Ajit Kumar
Arvind Kumar Das, Gyan Dev Singh, Kalyan Sarma, Namrata 36

Management Practices on Soil Biochemical Parameters and Rhizosphere Microbial Communities of Turmeric (*Curcuma longa* L.): An Overview
Anitta Abraham, C. Sarathambal, V. Srinivasan, C.K. Thankamani 46

Integrating Feed Efficiency and Waste Management for Climate-resilient Farming: A Review
Syed Rizwan Ali Shah, Zafar Hayat 56

Millet Cultivation in North-east Hill Region of India: A Review
Priyanka Aribam, Amit Anil Shahane, A.K. Singh 64

Determinants of Mushroom Production in Ethiopia: A Review
Kelemu Dessie Massrie 72

Bacillus spp. as Bioagents- Applications and Effective Strategies in Plant Bacterial Disease Management: A Review
Ibrahim Isse Ali 79

Animal Cognition and Animal Welfare: A Review
Anjali Arya, M.M. Trivedi, R.J. Modi, Y.G. Patel, P.M. Lunagariya 86

Importance of Integrated Nutrient Management for Pulse Crops Amidst Climate Change in India: A Review
V.K. Patel, S.V. Singh, C. Patel, S.N. Ingle, S.P. Das, A.K. Singh, V. Kumar 93

Agronomic Interventions for Optimizing Productivity in Millets: A Review
T. Hasanath, J.S. Bindhu, P. Shalini Pillai, J. John, A.V. Meera, B. Archana 100

Organic Farming Towards Healthy Food and Safe Environment: A Review
R. Raman, T. Srinithan, D. Suresh, E. Balaji 106

RESEARCH ARTICLES

Decoding Gene Activity and Heterosis: Line × Tester Analysis for Yield Traits in Rapeseed (*Brassica napus* L.)
Rashma Afrose, Thashin Tabassum, Fatamatul Mohosina, Habiba Zannat Meem, Md. Mahmud Al Noor, Md. Nazmul Hasan Mehedi 111

Energy Indices, Productivity and Profitability of Rainfed Chickpea (*Cicer arietinum* L.) Influenced by Crop Geometry and Nutrient Management Practices
N.M. Kumbhar, P.D. Thombare, M.D. Gholkar, A.G. Wani 122

Investigating the Level of Adoption and Perception Towards Irrigated Wheat Production in North Shawa Zone, Oromia Regional State, Ethiopia
Marsimoy Ajema Sima, Teferi Taye Aduna 131

What Determines Gender Roles in the Allocation and Investment Decisions of Farm Households in Nigeria?
C.S. Onyenekwe, Chukwuma Ume1, E.C. Amaechina, T.C. Okoh, G.C. Obi 139

Nutritional Evaluation of Azolla pinnata Meal in Broiler Chicken Diets
F.B. Yassar, N.B. Rano, A. Abubakar 146

Determinants of Income of Cocoa Production Contract Systems in Cross River State, Nigeria
J.A. Igiri, O.I. Ettah, V.A. Abanyam, Eyo O. Edet, D.A. Abua, Godwin I. Ettah 152

Production and Marketing of Chilli in Middle Gujarat
R.S. Pundir, D.R. Vahoniya, Alvira Rajwadi 158

Yield and Quality of Potato (*Solanum tuberosum* L.) as Influenced by Combined Application of FYM and NPSB Blended Fertilizer at Gewata District, Southwestern Ethiopia
A. Mengesha, D. Belew, A. Nebiyu 164

Study of Soybean Germplasms on Biochemical Basis of Resistance against *Spodoptera litura* (Fabricius)
Khaba Moirangthem, Renu Pandey, Sudha Mathpal 169

Esteemed Reviewers of This Issue 174
Authors Index of This Issue 174-175
Keywords Index of This Issue 175-176