

E-ISSN: 2582-9467



VIGYAN VARTA

An International E-Magazine for Science Enthusiasts

Volume 6, Issue 08, August 2025

Contents

Volume: 06, Issue: 08		August 2025 (E-ISSN: 2582-9467)	
Sl. No.	Title of the Article	Author's Name	Page
1.	Azolla as a Natural Feed Supplement in Aquaculture	Mitrasen Maurya*, Dinesh Kumar, and Sakshi	1-4
2.	Container Culture in Vegetable Production: A Smart Way to Grow Fresh Greens	S. Hima Bindu*, T. Baby Rani, G. Dayana and A. Sushma	5-8
3.	Environmental and Ecological Risks of Heavy Metals in Aquatic Systems: Emphasis on Detection and Management Approaches	Vishal Soni*, Kusumlata Goswami, Satendra Singh, Krishan Kumar Yadav, Prabhutva Chaturvedi and Sujeet Kumar Rai	9-16
4.	Bamboo Farming: A Sustainable Pathway to Economic and Environmental Resilience	Miss Bhagat Ashwini Kawaduji and Pratik Narayan Moghe*	17-24
5.	Astronomy based Agriculture: Ancient yet Appealing	Prem Sagar S P*, V C Raghavendra, Yashaswini R, Sridhara M R, Sanjay M and B V Sinchana	25-28
6.	Infectious Spleen and Kidney Necrosis Virus (ISKNV): A Hidden Killer in Aquaculture	Anbu Kani Selvam. G*, Dhinesh. P, Arockia Mirna. E and Chrisolite. B	29-32
7.	Optimizing Seed Priming Protocols Using Surfactants for Improved Plant Establishment	Shachi Tiwari* and Sangeeta Dayal	33-37
8.	Ahimsa Silk: A Journey from Castor Leaf to Compassionate Cocoon	Nikita Kankanawadi*	38-41
9.	Unlocking the Genetic Treasures of Tomato Wild Relatives: A Path to Sustainable Agriculture	Jayanth K. V.*, Siddu C. B and Harshitha M	42-45
10.	Spinning Sustainability: Turning Wool By-Products into Value	Shristi Patel*, Judy Lalthanmawii, Rathod Rohit Kailasrao, Patel Jainam Nanubhai and Varun Kumar	46-51
11.	Integrated Farming System: A Smart Solution for Profitable and Eco-Friendly Farming	Vijayakumar J. S.*, Gangadhara K. N, Chandana, Akshata Annasab Magadum, Nagaveni M and Madhumathi. P	52-58
12.	Micronutrient Seed Priming: A Sustainable Approach to Boost Seed Yield and Quality	Manjanagouda S Sannagoudar*, B. Basavaraj, C.S. Shantharaja, Anjitha George, G. Vanishree and J. K. Tripathi	59-62
13.	Kennel Business: Turning Passion for Dogs into Profitable Enterprise	Abhishek Rajput*, S.P. Ingole, Durga Chaurasia and Shivesh Kumar Deshmukh	63-67
14.	Diagnosis of Protozoan Parasites in Livestock	Dr Nabanita Ganguly*, Dr Sawan D. Rathwa, Dr. B. J. Thakre and Dr. J. B. Solanki	68-73
15.	Blue Carbon Potential of Coastal Fisheries: Implications for Climate Changes	Sneha Chaudhury, Krishan Kumar Yadav*, Barsha Baidya, Amit Singh Kshatri and Rishi Pal Yadav	74-83

16.	Smart Forests: Using Machine Learning to Prevent Wildfires	Ravi, A. R.*	84-86
17.	The Hidden Cost of Climate Change: More Pests in Vegetable Crops	Shrawarna Sarma* and Kirtika Mishra	87-89
18.	Beyond the Grain: How Millets Are Transforming Tribal Livelihoods in Odisha	Asutosh Mishra*, Shubhasmita Nayak and Subhasish Kabi	90-93
19.	Role of Modelling in Soil Science and Different Models Used	Himshikha*	94-96
20.	Tobacco as a Bio-Insecticide: A Sustainable Alternative for Pest Control	Manjeet Kaur*, Anuj Choudhary and Sarwan Kumar	97-100
21.	Potato Storage Practices in India	Sarthak Kumar Vinodbhai Chaudhury and Shakti Ranjan Panigrahy*	101-104
22.	Climate Change and the Pollination Crisis: A Call to Action	Pavan Kumar*, Anil Jakhar and Ankit Saini	105-108
23.	Benefits of Zeolite Application in Agriculture	V. Girijaveni*, Sumanta Kundu, G. Priya, Jagriti Rohit and Savita Santosh	109-113
24.	Climate-Resilient Agriculture and Carbon Farming	Roussas Muskan Ahmed*	114-119
25.	Zero-Waste Approaches in Modern Seafood Processing Facilities Farming	Tanuja Kulshrestha*, Pritha Kumar, Niharika Mohapatra, Aditya Singh and Mutum Sardalini	120-124
26.	21st Century Invaders: Insect Pests Endangering Horticultural Crops	Yogananda T*, Kumuda M Y and Sujay R Patil	125-129
27.	Enabling Sustainable Agriculture: The Policy Role of Extensionists in Natural Farming	Devraj Jevlya*, Abhijeet Sarje and U. S. S. Lekha	130-134
28.	Gender Mainstreaming in the Agricultural Sector: Empowering Women for Sustainable Development	Devraj Jevlya*, U. S. S. Lekha, Abhijeet Sarje and Arun Kumar	135-138
29.	Underutilized Vegetables for Food and Nutrition Security: Importance and Challenges	Sheetal*	139-142
30.	Digital Transformation in Seed Marketing: CRM, Mobile and E-Commerce in Hybrid Vegetable Seeds	Manoj N. S.*, Channaviragouda and Ravi A. R.	143-146
31.	Women in Fisheries Extension: Challenges and Opportunities	Aarti Shori*, B. Nightingale Devi, Shashank Sharma, Reema Thakur, Divyani Soni and Mithlesh Varma	147-151
32.	Export Opportunities in Agriculture: India's Growing Global Footprint	R. Shiva Shankar* and K. Pravallika	152-155

33.	Antimicrobial Resistance in Aquaculture	Shrutika Khushal Masram, Jay Vijay Mute, Shilpkar Dipak Narwade and Arambam Ashwini Devi*	156-160
34.	The Role of Women in Indian Agriculture	Rajashree Khatua and A. Mahapatra	161-166
35.	Yerba mate (Ilex paraguariensis): An Underutilized Supercharged Beverage Crop Alternative to Traditional Tea for Health and Vitality	Sangamesh*, Dev Raj, Ganga Murthy and A. K. Pandey	167-172
36.	Unlocking the Invisible: The Power of Hyperspectral Imaging in Food Industries	Sangamesh*, Dev Raj, A. K. Pandey and Shivanand K	173-176
37.	Medicinal Plant Diversity in an Urbanizing World: Lessons from GKVK Biodiversity Heritage Site	Sumanth, T.S.*	177-179
38.	e-NAM: Empowering Farmers Through Digital Markets	Adrita Dam*, Partha Mondal, Nandini Saha and Sayak Saha	180-183
39.	Gender-Inclusive Climate Resilience Practices in Livestock: An Indian Perspective	Arun Kumar Panda*, Arpita Mohapatra and Braja Bandhu Swain	184-187
40.	Postpartum Depression: Breaking the Silence Around Maternal Mental Health	Amita Verma* and Zeenat Rashid	188-192
41.	Image Sensing: A New Emerging Technology in Plant Disease Management	Rutuja Chavan* and Jaydeep Sirsat	193-197