

FAI Awards 2024

I. FAI GOLDEN JUBILEE AWARDS

1. BEST PRODUCTION PERFORMANCE AWARDS

A. Nitrogenous (Ammonia & Urea) Production Performance Fertilizer Plants

Winner

Matix Fertilisers and Chemicals Limited, Panagarh

Runner-Up

Chambal Fertilisers and Chemicals Limited, Gadepan III

B. Phosphoric Acid Plants

Winner

Indian Farmers Fertiliser Cooperative Limited, Paradeep

C. Complex (P_2O_5) Fertilizer Plants

Joint Winners

Indian Farmers Fertiliser Cooperative Limited, Paradeep
and

Coromandel International Limited, Visakhapatnan

D. Single Super Phosphate Plants

Winner

Indorama India Private Limited, Haldia

Runner-Up

Krishna Phoschem Limited, Meghnagar

E. Improvement in Overall Performance of a Company

Winner

Shriram Fertilisers & Chemicals, Kota
(A Unit of DCM Shriram Limited)

2. BEST TECHNICAL INNOVATION AWARD

R.M. Phosphates and Chemicals Private Limited, Indore for the innovations on Improving Productivity of SSP Plant through Modifications: Reuse of CS Tyre of Rotary Drum, Technical Changes in Drives Fitting in Discharge End of All Rotary Drums, Self-lubrication System for Den Conveyor Chain and Changes in Mixer Shaft

II. AWARD FOR EXCELLENCE IN SAFETY

Special Award

Shriram Fertilisers & Chemicals, Kota
(A Unit of DCM Shriram Limited)

Winner

Yara Fertilisers India Private Limited, Babrala

III. ENVIRONMENT PROTECTION AWARDS

A. Nitrogenous Fertilizer Plants (including ammonia, urea and other straight nitrogenous fertilizer units)

Special Award

Indian Farmers Fertiliser Cooperative Limited, Aonla

Winner

Mangalore Chemicals & Fertilizers Limited, Mangalore

Runner-Up

Chambal Fertilisers and Chemicals Limited, Gadepan

B. NP/NPK Complex Fertilizer Plants with Captive Acids

Special Award

Indian Farmers Fertiliser Cooperative Limited, Paradeep

Winner

Gujarat State Fertilizers & Chemicals Limited, Vadodara

C. NP/NPK Complex Fertilizer Plants without Captive Acids

Winner

Indorama India Private Limited, Haldia

D. Single Super Phosphate Plants

Winner

Indorama India Private Limited, Haldia

Runner-Up

Coromandel International Limited, Ranipet

IV. VIDEO FILM COMPETITION AWARDS

Winner

Chambal Fertilisers & Chemicals Limited, New Delhi for the film on **Sunhere Bhavishya Ki Aur**

Joint Runner-Ups

Paradeep Phosphates Limited, Bengaluru for the film on **PM-PRANAM**

and

Krishak Bharati Cooperative Limited, Noida for the film on **Apni Mitti, Apna Pani, Apna Bhavishya**

V. AWARD ON PRODUCTION, PROMOTION AND MARKETING OF BIOFERTILIZERS/ORGANIC FERTILIZERS/CITY COMPOST

Winner

Krishak Bharati Cooperative Limited, Noida

VI. AWARD ON TRANSFER OF IMPROVED FARM TECHNOLOGIES

Winner

Indian Farmers Fertiliser Cooperative Limited, New Delhi

VII. AWARD ON APPLICATION OF ICT/DIGITAL TRANSACTIONS IN AGRICULTURE

Winner

Adventz Group (PPL & Zuari Farmhub Limited), Bengaluru

VIII. AWARD ON PROMOTION AND MARKETING OF MICRONUTRIENTS IN INDIA 2023-24

Winner

Indian Farmers Fertiliser Cooperative Limited, New Delhi

IX. AWARD FOR EXCELLENCE FOR THE BEST WORK DONE IN THE FIELD OF PLANT NUTRITION

Joint Winners

Dr. Y.S. Shivay, Division of Agronomy, ICAR-Indian Agricultural Research Institute, New Delhi

Dr. Yashbir Singh Shivay, Professor & Principal Scientist (Agronomy) has done pioneering research on plant nutrition aspects of rice, wheat, corn, oats, and chickpea crops. His research work led to the development of integrated site-specific nutrient management recommendations using coated urea fertilizers viz. zinc-coated urea, sulphur-coated, boron-coated urea, gypsum coated-urea, phosphogypsum coated-urea, use of summer green manuring crops, new generation biofertilizers viz. microbial consortia, biofilms, cyanobacteria, etc. for increasing nutrient use efficiency and farmers' income, while improving soil health and reducing environmental footprints. Considering the deficiency of sulphur in Indian soils, he has worked on sulphur nutrition to sustain the productivity and

profitability of the rice-wheat cropping system. His research work has shown that the application of 5% sulphur-coated urea to the rice-wheat crop enhanced nitrogen recovery efficiency to 60%. Dr. Shivay has also worked towards innovative approaches to Zn nutrition of different crops and cropping systems viz. seed coating, foliar application, ZnO nano-particles embedded N, P, and K fertilizer, soil application + use of biofilm/consortia of biofertilizers, which led to not only increased productivity but also nutritional quality by increased Zn and crude protein content in the economic produce.

and

Dr. (Mrs.) K. Susan John, Division of Crop Production, ICAR-Central Tuber Crops Research Institute, Kerala.

Dr. (Mrs.) K. Susan John, Principal Scientist, Division of Crop Production, ICAR-Central Tuber Crops Research Institute (CTCRI) has been involved in research on soil fertility and plant nutrition of tropical tuber crops such as cassava, sweet potato, yams and elephant foot yam since 1993. Her outstanding research contributions are in the field of integrated nutrient management (INM) which include identification of cheap and low cost organic manure sources in place of farmyard manure (FYM), soil test based application of primary, secondary and micronutrients and use of nutrient use efficient varieties and biofertilizers. Other areas of her research domain include customized fertilizers, wealth from waste, polyhalites, nano fertilizers and crop nutrition approach in disease management. She is highly involved with issues of farmers by giving timely agro-advisories to identify and correct nutritional disorders and other important field problems. The training classes, field demonstrations, radio and TV talks delivered by her and issuance of soil health cards help in timely dissemination of scientific information which made her very popular among the farming community of Kerala. She has released the first K efficient cassava variety (Sree Pavithra) in 2015 and two NPK use efficient cassava varieties ' Sree Annam' and Sree Manna' in 2024 in India.

X. AWARD FOR OUTSTANDING DOCTORAL RESEARCH IN FERTILIZER USAGE

Winner – Dr. Abhilasha Tripathi, Environmental Engineering, Indian Institute of Technology Kanpur, Uttar Pradesh

Dr. Abhilasha Tripathi completed her Ph.D. at the Indian Institute of Technology Kanpur, Uttar Pradesh, India, focusing on **Rice Straw Biochar-based Soil Amendments as Soil Conditioners and Slow-Release Phosphate Fertilizers**. As part of her dissertation, Dr. Tripathi developed and patented two biochar-based composites as slow- phosphate release fertilizers: one with magnesium-modified rice straw biochar and the other with struvite and rice straw biochar. The composites were subjected to multi-cycle release experiments, mathematical modeling, and pot trials. The tests revealed a controlled phosphate release regulated by a diffusion-driven mechanism, which effectively prevents sudden nutrient surges and reduces nutrient runoff losses. Pot experiments with *Cicer arietinum* (Bengal gram) and *Spinacia oleracea* (Spinach) demonstrated improved plant growth using these fertilizers over conventional chemical fertilizers. Overall, her work tackles the environmental challenge of rice straw (Parali) burning and nutrient mismanagement in agriculture by presenting a sustainable solution: transforming rice straw into biochar-based fertilizers. These fertilizers enhance soil carbon, crop productivity, and enable controlled nutrient release. On a global scale, this approach provides a climate-smart solution for carbon sequestration, and empowering farmers to improve soil health while reducing dependency on chemical fertilizers.

XI. BEST ARTICLE AWARDS

A. RASHTRIYA CHEMICALS AND FERTILIZERS LIMITED AWARDS IN PRODUCTION AND TECHNOLOGY

First Prize

Mr. Rakesh Puri, Mr. Gyan Chandra Tripathi and Mr. Chandan Kumar Mishra, Indian Farmers Fertiliser Cooperative Limited-Aonla for their article entitled **Redefining Operational Philosophy in Power Plant for Energy Efficiency** published in the March, 2024 issue of *Indian Journal of Fertilisers*.

Second Prize

Mr. Arun Kumar Sharma, Mr. Shushant Yadav and Mr. Kanhaya Lal, Indian Farmers Fertiliser Cooperative Limited-Kandla for their article entitled **Enhancing Productivity and Reliability through Innovative Modifications in DAP/ NPK Complex** published in the June, 2024 issue of *Indian Journal of Fertilisers*.

B. SHRIRAM AWARDS IN MARKETING

First Prize

Mr. Dushyant Kumar Tyagi, Farmgate Technologies Private Limited, Hyderabad for his article entitled **Artificial Intelligence Application in the Fertilizer Sector and Need for Policy Initiatives** published in the September, 2024 issue of *Indian Journal of Fertilisers*.

Second Prize

Mr. Pankaj Singhi, Unifeeder, DP World, Ahmedabad and Mr. Anoop Parashar, Unifeeder, DP World, New Delhi for their article entitled **Potential of Fertilizer Movement through Coastal Shipping and Inland Waterways – A Case Study** published in the September, 2024 issue of *Indian Journal of Fertilisers*.

C. DHIRU MORARJI MEMORIAL AWARD IN AGRICULTURAL SCIENCES

First Prize

Dr. K.N. Tiwari, Mr. Yogendra Kumar, Mr. Neeraj Kumar Awasthi¹, Ms. Madhulika Shukla, Dr. Tarunendu Singh and Mr. Rajneesh Pandey, IFFCO and ¹Anglo American Crop Nutrients (India) Private Limited, New Delhi for their article entitled **Promoting Climate Resilient Agriculture for Sustainable Food, Nutrition and Environment Security: The Role of Fertilizer Industry** published in the March, 2024 issue of *Indian Journal of Fertilisers*.

Second Prize

Dr. Ch. Srinivasa Rao, Dr. M. Ramesh Naik, Dr. Anandkumar Naorem¹, Dr. Mani Chandana and Dr. Kirttiranjan Baral, ICAR-National Academy of Agricultural Research Management, Hyderabad and ¹ICAR – Central Arid Zone Research Institute, Jodhpur for their article entitled **Organo-Mineral Fertilizers for Sustainable Agriculture** published in the April, 2024 issue of *Indian Journal of Fertilisers*.

D. SHRIRAM KHAD PATRIKA AWARD (HINDI)

प्रथम पुरस्कार

Dr. U.S. Teotia, Dr. Radheshyam and Dr. Bhanu Pratap, Indian Potash Limited, New Delhi for their article entitled **उत्तर प्रदेश में गन्ने की वैज्ञानिक खेती**, published in the September, 2024 issue of *Khad Patrika*.

द्वितीय पुरस्कार

Dr. Shailesh Kumar Singh, Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya-KVK, Datia, Madhya Pradesh for his article entitled **आधुनिक कृषि में जैव उर्वरक का निवेशन**, published in the December, 2023 issue of *Khad Patrika*. ■