

| Personal Information | | |
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| Name | : | Dr. Prakash Chand Ghasal |
| Designation | : | Scientist |
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| Telephone(Office) | : | |
| Mobile No. | : | +91-9133795046 |
| Qualification | : | Ph.D. |
| Discipline and | : | Agronomy |
| specialization | | |
| Training/ advance | : | |
| exposure (5-6 lines | | |
| only) | | |
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Professional Information

Major Contributions

farming, focusing on standardizing concentrated manure doses and exploring split applications to match crop demand. Developed organic farming practices for diverse crops in the upper Gangetic Plain Zone. My research includes studying carbon, nitrogen, phosphorus, potassium, and sulfur dynamics in long-term organic systems and identifying suitable crop varieties. Addressed weed issues with cultural and mechanical methods and completed a georeferenced survey of over 200 organic adopters in Western Uttar Pradesh.I created a 0.70 ha climate-smart Integrated Farming System model, incorporating various farming practices and recycling resources to meet over 70% of nutrient demand. Demonstrated successful urea coating with zinc, iron, and sulfur. Guided five

nationally and internationally.

Current area of research

• Optimized nutrient management during the conversion period of organic farming.

Certified Farm Advisors and organized multiple training sessions, conferences, and field days. Delivered over 20 invited lectures

I have specialized in efficient nutrient management for organic

- Standardized manure doses and explored split application techniques for efficiency.
- Researched carbon and nutrient dynamics in long-term organic systems.
- Identified suitable varieties, addressed weed issues, and conducted extensive surveys in organic farming.
- Created a climate-smart integrated farming system emphasizing

nutrient recycling and SDG alignment. Exploring the possibilities of additive intercropping in summer planted sugarcane 1. Prakash Chand Ghasal, Yashbir Singh Shivay, Vijay Major Publications (10) Pooniya, MukeshChoudhary and Rakesh Kumar Verma. 2017. Response of wheat genotypes to zinc fertilization for improving productivity and quality. Archives of Agronomy and Soil Science, 63(11):1597-1612. 2. MukeshChoudhary, K.S. Rana, R.S. Bana, P.C. Ghasal, G.L. Choudhary, Praveen Jakhar, R.K. Verma. 2017. Energy budgeting and carbon footprint of pearl millet e mustard cropping system under conventional and conservation agriculture in rainfed semi-arid agroecosystem. Energy 141:1052-1058. 3. MukeshChoudhary, KS Rana, MC Meena, RS Bana, Praveen Jakhar, PC Ghasal, RK Verma. 2019. Changes in physico-chemical and biological properties of soil under conservation agriculture based pearl millet-mustard cropping system in rainfed semi-arid region. Archives of Agronomy and Soil Science 65 (7), 911-927. 4. Prakash Chand Ghasal, Yashbir Singh Shivay, Vijay Pooniya, MukeshChoudhary, Rakesh Kumar Verma. 2018. Zinc partitioning in basmati rice varieties as influenced by Zn fertilization. The Crop Journal 6:136-147. 5. Vijay Pooniya, NirajBiswakarma, C.M. Parihar, KarivaradharajanSwarnalakshmi, Achal Lama, R.R. Zhiipao, AmlanNath, Madan Pal, S.L. Jat. Satyanarayana, K. Majumdar, R.D. Jat, Y.S. Shivay, D. Kumar, P.C. Ghasal, Kuldeep Singh. 2021. Six years of conservation agriculture and nutrient management in maize-mustard rotation: Impact on soil properties, system productivity and profitability. Field Crops Research. 260:108002. 6. Vijay Pooniya, R. R. Zhiipao, NirajBiswakarma, S. L. Jat, Dinesh Kumar, C. M. Parihar, K. Swarnalakshmi, Achal Lama, A. K. Verma, Debasish Roy, Kajal Das, K. Majumdar, T. Satyanarayana, R. D. Jat, P. C. Ghasal, Hardev RajkumarJat&AmlanNath. Ram, Long-term conservation agriculture and best nutrient management improves productivity and profitability coupled with soil properties of a maize-chickpea rotation. Scientific Reports 11: 10386. 7. YS Shivay, V Pooniya, M Pal, PC Ghasal, R Bana, SL Jat. 2019. Coated urea materials for improving yields, profitability, and nutrient use efficiencies of aromatic rice. Global Challenges 3 (12), 1900013. 8. Debashis Dutta, A. L. Meena, Amit Kumar, N. Subash, R. P. Mishra, P. C. Ghasal, JairamChoudhary, Chandra

Bhanu, Raghavendra KJ, Chetan Kumar G, Ankur

- Kumar, Vaibhav Kumar, R. B. Tewari, A. S. Panwar. 2022. Influence of Different Nutrient Management Practices and Cropping Systems on Organic Carbon Pools in TypicUstochrept Soil of Indo-Gangetic Plains in India. Journal of Soil Science and Plant Nutrition, 22:1403–1421.
- 9. Amrit Lal Meena, Raghu Nath Pandey, Dinesh Kumar, Debashis Dutta, V.K. Sharma, MinakshiKarwal, MerajAlam Ansari, MahaveerNogiya, K.J. Raghavendra, P.C. Ghasal, JairamChoudhary, R.P. Mishra, Chandra Bhanu, P.C. Jat, Sunil Kumar, A.S. Panwar. 2023. The Long-Term (13 years) Effect of Rice Based Organic Farming on Soil Sulphur Dynamics in a TypicUstochrept Soil of Indo Gangetic Plain of India. Journal of Soil Science and Plant Nutrition,23: 651-667.
- 10. P C Ghasal, Y S Shivay, V Pooniya, M Choudhary and R K Verma. 2017. Zinc accounting for different varieties of wheat (Triticumaestivum) under different source and methods of application. Indian Journal of Agricultural Sciences 87 (9): 1111–1116.

Awards and Fellowships (ICAR/Recognition society awards)

- **1. Best Ph.D. Thesis Award** for Year 2015 by Indian Society of Agronomy at MPUAT, Udaipur on 24 October, 2018.
- 2. **Young Agronomist Award 2020** for outstanding contribution in the fieled of Agronomy by Agricultural Technology Development Society (ATDS) on the occasion of 4th International conferenr on Global Approaches in Natural Resource Management for Climate mart Agriculture during Pandemic Era of COVID-19 during 26-28 February, 2021.
- 3. **Award of Associate Editor** for contribution to the quality and success of International Journal of Agriculture sciences by Bioinfo Publication on 14 July 2017.
- 4. **Best Oral Presentation Award** (2nd) on the occasion of 4th International conferent on Global Approaches in Natural Resource Management for Climate mart Agriculture during Pandemic Era of COVID-19 held at Shobhit Deemed University, Modipuram during 26-28 February, 2021.
- 5. **Best poster presentation award** in XXI Bieenial national Symposium on Doubling Farmers' Income through agronomic interventions under changing Scenario at MPUAT, Udaipur, Rajasthan during 24-26 October, 2018.
- 6. **Best Poster presentation award** (2nd) in International Conference on Advances in Agricultural and Biodiversity Conservation for Sustainable Development (27-28 October, 2017) at C.C.S. University, Meerut (U.P.).
- 7. **Best Poster Award** (2nd) in International Conference on "Advances in Potassium Research for Efficient Soil and Crop Management" at NASC complex, New Delhi during 28-29 August, 2017.