

Brief Resume of Dr. Vijay Singh Meena

Dr. Vijay Singh Meena

Senior Scientist (Soil Science)

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Research Specialization

- Agroecosystem sustainability and climate-resilient agriculture
- Carbon sequestration and soil carbon management
- Cropping system optimization and the water-food-energy nexus
- Soil-plant-microbe interactions and ecosystem functioning
- Design, implementation, and monitoring of research and development projects

Academic Background

Degree	University/Institution	Degree
Ph.D. (Soil Science and Agricultural Chemistry)	BHU, Varanasi (Uttar Pradesh)	2016
M.Sc. (Soil Science and Agricultural Chemistry)	BHU, Varanasi (Uttar Pradesh)	2011
B.Sc. (Agriculture)	SKRAU, Bikaner (Rajasthan)	2009

Professional Service Experience

S. No.	Employer Name	Designation	Place of posting	Period From	Period To
1	ICAR	Scientist	ICAR-VPKAS, Almora	Jan 2014	May 2020
2	CIMMYT-BISA	Project Coordinator	BISA, Pusa	May 2020	May 2023
3	ICAR	Scientist (SS)	ICAR-VPKAS, Almora	May 2023	Dec. 2023
4	ICAR	Senior Scientist	ICAR-IARI, Pusa	Jan 2024	June 2025
5	ICAR	Senior Scientist	ICAR-MGIFRI	June 2025	continue

Awards, Honours & Recognitions

Name of the Awards	Awarding body
Top Agri-Food Pioneer	World Food Prize Foundation
INSA Medal for Young Scientists Award	Indian National Science Academy
Young Scientist (Soil, Water & Environmental Sciences)	National Academy of Agri. Sciences (NAAS)
Budding Scientist Award	Indian Association of Soil and Water Conservationists (IASWC)
Associateship	National Academy of Agri. Sciences (NAAS)

Publications

1. [Meena, V.S.](#), Jat, R.K., Durgude, S., Pazhanisamy, S., Kumar, T., Gautam, A.K., Kumar, S., Reddy, I.R., Sohane, R.K., Chhetri, K.B., Jha, R.K., Kumar, A., Kumar, U., Kumar, A., Singh, R.N., Meena, S.K., Das, A., Jha, A.K., Tripathi, D.P., Sagar, S., 2026. Conservation agriculture for sustainable rice–maize systems in Bihar, India. *Field Crops Res.* 337, 110275. <https://doi.org/10.1016/j.fcr.2025.110275>
2. Jat, R.K., [Meena, V.S.](#), Sohane, R.K., Jha, R.K., Kumar, A., Kumar, U., Kumar, A., Singh, R.N., Durgude, S., Kumar, S., Reddy, I.R., Pazhanisamy, S., Kumar, R., Meena, S.K., Prakash, V., Kumar, S., Kumar, B., Umesh, U.N., Singh, R.K., Chaubey, R., Kumar, V., Kumari, S., Kumar, P., Singh, S., Singh, R.K., Kumar, G., Tiwari, R.K., Kashyap, V., Kushwaha, S., Das, S., Gautam, P.P., Avinash, G., Alam, N.M., Upadhaya, B., Singh, S.K., Ghosh, S., Bhagat, S., Lenka, A.K., Jha, A.K., Tripathi, D.P., Sagar, S., 2026. Climate-resilient agriculture strategies to address agri-food security and climate change. *Field Crops Res.* 340, 110370. <https://doi.org/10.1016/j.fcr.2026.110370>
3. Giri, R.K., Cherian, B., Mendali, B., Virk, P., Pfeifer, W., Jat, R.K., Meena, M.L., Durgude, S., Banerjee, K., Hasanain, M., [Meena, V.S.](#), 2026. Scaling biofortified wheat production for agrifood and nutritional security in eastern India. *Field Crops Res.* 341, 110393. <https://doi.org/10.1016/j.fcr.2026.110393>
4. Jinger, D., Kakade, V.D., Kaushal, R., Bhatnagar, P.R., Ghosh, A., Mahawer, S.K., Dinesh, D., Singh, G., Akula, C., Paramesh, V., [Meena, V.S.](#), Roy, T., Islam, S., Kumar, D., Uthappa, A.R., Chavan, S.B., Pradhan, A., Kumar, R., Kaledhonkar, M.J., Madhu, M., 2025. Nature-based solutions for CO₂ sequestration. *J. Environ. Manage.* 380, 124904. <https://doi.org/10.1016/j.jenvman.2025.124904>
5. Hasanain, M., Singh, V.K., Rathore, S.S., [Meena, V.S.](#), Meena, S.K., Shekhawat, K., Singh, R.K., Dwivedi, B.S., Bhatia, A., Upadhyay, P.K., Singh, R., Babu, S., Kumar, A., Kumar, A., Fatima, A., Verma, G., Kumar, S., Sharma, K., Singh, N., 2025. Sustainable strategies in maize–wheat systems. *Renew. Sustain. Energy Rev.* <https://doi.org/10.1016/j.rser.2024.115316>
6. [Meena VS](#), Ghosh BN, Singh RJ, Bhattacharyya R, Sharma NK, Alam NM, Meena SK, Mishra PK 2021. Land use types and topographic position affect soil aggregation and carbon management in the mountain agro-ecosystems of the Indian Himalayas. *Land Degradation & Development* <https://doi.org/10.1002/ldr.3864>
7. Choudhary M, Panday SC, [Meena VS](#), Singh S, Yadav RP, Pattanayak A, Mahanta D, Bisht JK, Stanley K 2020. Long-term tillage and irrigation management practices: Strategies to enhance crop and water productivity under rice-wheat rotation of Indian mid-Himalayan Region. *Agricultural Water Management* 232, 106067
8. [Meena VS](#), Mondal T, Pandey BM, Mukherjee A, Yadav RP Choudhary M, Singh S, Bisht JK, Pattanayak A (2018) Land use changes: strategies to improve soil carbon and nitrogen storage pattern in the mid-Himalaya ecosystem, India. *Geoderma* <https://doi.org/10.1016/j.geoderma.2018.02.002>
9. [Meena VS](#), Meena SK, Bisht JK, Pattanayak A (2016) Conservation agricultural practices in sustainable food production. *J. Cleaner Prod.* 137, 690–691.
10. Ghosh BN, [Meena VS](#), Alam NM, Dogra P, Bhattacharyya R, Sharma NK, Mishra PK (2016) Impact of conservation practices on soil aggregation and the carbon management index after seven years of maize–wheat cropping system in the Indian Himalayas. *Agric. Ecosyst. Environ.* 216, 247–257.
11. [Meena VS](#), Maurya BR, Verma JP (2014) Does a rhizospheric microorganism enhance K⁺ availability in agricultural soils? *Microbiol. Res.* 169, 337–347.

Google Scholar: h-index 66, i10-index 142 with 14000+ citations in international literature.
