



Personal Information

Name	:	DR RAGHAVENDRA SINGH
Designation	:	Head, Cropping Systems and Resource Management
Email	:	Raghavendra.Singh@icar.gov.in
Telephone(Office)	:	
Mobile No.	:	+917905160105
Qualification	:	Ph.D in Agronomy
Discipline and specialization	:	Agronomy Conservation agriculture, organic and natural farming, integrated farming system
Training/ advance exposure (5-6 lines only)	:	<ul style="list-style-type: none"> ➤ Refresher Course on Agricultural Research Management. National Academy of Agricultural Research Management (NAARM), Rajendranagar, Hyderabad (A.P.) during November 10th -22nd, 2014 (13 days).

Professional Information

Major Contributions	:	Developed system approaches for conserving natural resources, and enhancing farm productivity, profitability, and environmental sustainability under organic and inorganic management scenarios. Integrated Organic Farming Systems (IOFS) models developed for small and marginal farmers that enhanced profitability by 2-3 folds and reduces greenhouse gas intensity considerably over traditional systems. Associated with the development and notification of four rice (04), two maize (02), and one rajmash (01), varieties for organic conditions in Sikkim. Published >120 research articles, 32 books, compendium, and technical bulletins, 64 book chapters, 25 popular articles/extension leaflets with total citation of 2533 and h-index 27. Served as Joint Secretary of Indian Society of Agronomy, Varanasi Chapter and Councillor, ISA/IAHF and further organizing secretary of two national conference besides serving as Chairman/Co-chairman/member/reviewer of various scientific sessions, committees and reputed journals.
Current area of research	:	<ul style="list-style-type: none"> ➤ Conservation Agriculture, ➤ Climate Resilient Agriculture, ➤ Organic and Natural Farming, ➤ Integrated Farming System Research
Major Publications (10)	:	<ol style="list-style-type: none"> 1. Yadav, G.S., Das, A., Kandpal, B.K., Babu, S., Lal, R., Datta, M., Das, B., Singh, Raghavendra, Singh, V.K. Mohapatra K.P., Chakraborty M.2021. The food-energy-water-carbon nexus in a maize-maize-mustard cropping sequence of the Indian Himalayas: An impact of tillage-cum-live mulching. <i>Renewable and Sustainable Energy Reviews</i> 151:111602 https://doi.org/10.1016/j.rser.2021.111602; NAAS rating: 20; Citations: 65 2. Singh Raghavendra, Babu S., Avasthe, R.K., Yadav, G.S., Das, A., Mohapatra, K.P., Kumar, A., Singh, V.K., Chandra, P.2021. Crop productivity, soil health, and energy dynamics of Indian Himalayan intensified organic maize-based systems. <i>International Soil and Water Conservation Research</i> 9(2): 260-270

	<p>https://doi.org/10.1016/j.iswcr.2020.11.003. NAAS rating: 12.40; Citations: 48</p> <p>3. Singh Raghavendra, Babu, S., Avasthe, R.K., Meena, R.S., Yadav, G.S., Das, A., Mohapatra, K.P., Rathore, S.S., Kumar, A., Singh, C.2021. Conservation tillage and organic nutrients management improve soil properties, productivity, and economics of a maize-vegetable pea system in the Eastern Himalayas. <i>Land Degradation & Development</i>, 1-18 https://doi.org/10.1002/ldr.4066; NAAS rating: 10.70; Citations:32</p> <p>4. Singh, Raghavendra, Kumar, A., Babu, S., Avasthe, R.K., Das, A., Rathore, S.S., Kumar, S., Singh, C., Sharma, V., Bhupenchandra, I.2023. Development of organic nutrients management system for profitable and soil-supportive French bean (<i>Phaseolus vulgaris</i> L.) farming in North Eastern Himalayas, India. <i>Frontiers in Sustainable Food Systems</i> 7:1115521. https://doi.org/10.3389/fsufs.2023.1115521; NAAS rating: 10.70; Citations: 06</p> <p>5. Babu Subhash, Singh Raghavendra*, Avasthe R K, Yadav G S, Das A, Singh V K, Mohapatra K P, Rathore SS, Chandra P and Kumar A. 2020. Impact of land configuration and organic nutrient management on productivity, quality and soil properties under baby corn in Eastern Himalayas. <i>Scientific Reports</i>10(1): 1–14. https://doi.org/10.1038/s41598-020-73072-6; NAAS rating: 10.60 - Citation: 70</p> <p>6. Babu Subhash, KP Mohapatra, Anup Das, Gulab Singh Yadav, M Tahasildar, Singh Raghavendra, Panwar AS, Yadav Vivek, Chandra P. 2020. Designing energy-efficient, economically sustainable and environmentally safe cropping system for the rainfed maize–fallow land of the Eastern Himalayas. <i>Science of the Total Environment</i>. <u>Volume 722</u>, 20 June 2020, 137874. https://doi.org/10.1016/j.scitotenv.2020.137874; NAAS rating: 15.80 - Citation: 79</p> <p>7. Yadav GS, Babu S., Das A., Mohapatra KP, Singh Raghavendra, Avasthe, R.K. Roy, S.2020. No-till and mulching enhance energy use efficiency and reduce carbon footprint of a direct-seeded upland rice production system. <i>Journal of Cleaner Production</i>. <u>Volume 271</u>, 20 October 2020, 122700; https://doi.org/10.1016/j.jclepro.2020.122700; NAAS rating: 17.10 - Citation: 84</p> <p>8. Yadav G S, Babu S, Das A, Datta M, Mohapatra KP, Singh Raghavendra, Singh VK, Rathore S.S., Chakraborty M.2021. Productivity, soil health, and carbon management index of Indian Himalayan intensified maize-based cropping systems under live mulch-based conservation tillage practices. <i>Field Crops Research</i> <u>Volume 264</u>, 1 May 2021, 108080. https://doi.org/10.1016/j.fcr.2021.108080. NAAS rating: 11.80 - Citation: 27</p> <p>9. Babu S, Mohapatra, K.P. Yadav G. S., Lal Rattan, Singh Raghavendra, Avasthe, R.K. Das, Anup, Chandra, Puran, Gudade, B.A., Kumar Amit. 2020. Soil carbon dynamics in diverse organic land use systems in North Eastern Himalayan ecosystem of India. <i>Catena</i> 194 (2020) 104785. https://doi.org/10.1016/j.catena.2020.104785. NAAS rating: 12.20 - Citation: 39</p> <p>10. Nath, C.P., Kumar, N., Hazra, K.K., Dutta, A., Praharaj, C.S., Singh, Raghavendra, Singh, S.S., Dubey, R.P., Sen, S., Dixit, G.P., Kumar,</p>
--	---

		<p>D.2024. Five years of conservation tillage and weed management in a rice-chickpea rotation of northern Gangetic Plains of India: Weed growth, yield benefits and economic profitability. <i>Soil & Tillage Research</i> 244. 106226. https://doi.org/10.1016/j.still.2024.106226. NAAS rating: 12.50 - Citation: --</p>
<p>Awards and Fellowships (ICAR/Recognition society awards)</p>	<p>:</p>	<ul style="list-style-type: none"> ❖ Awarded Junior Research Fellowship in Ph.D. programme by University Grant Commission, New Delhi (During 1997) ❖ Awarded Senior Research Fellowship by Indian Council of Agricultural Research in Ph.D programme (during 1997-2000). ❖ Awarded first position in M.Sc. (Ag) Agronomy at CSAUAT, Kanpur (during 1994-1996). ❖ Joint Secretary, Indian Society of Agronomy, BHU chapter, Varanasi from 2003-2007. ❖ Rajiv Gandhi Gold Medal Award-2015, Global Economic Progress and Research Association, (GEPRA), Tamil Nadu, INDIA. ❖ Young Scientist Associates Award 2016, by Bioved Research Institute of Agriculture Technology & Sciences, Allahabad (UP), INDIA. ❖ Best Research Paper Award (<i>Oral Presentation</i>) in International Conference on “Climate Change Adaptation and Biodiversity: Ecological Sustainability and Resource Management for Livelihood Security” held on December 8-10, 2016 at ICAR-CIARI, Port Blair. ❖ “Fellow of the Andaman Science Association” by Andaman Science Association on December 08, 2016 at ICAR-Central Island Agricultural Research Institute, Port Blair (Andaman & Nicobar Islands) India. ❖ “Best Extensionist Award 2015” by the Indian Association of Hill Farming, ICAR RC for NEH Region, Umiam on 19th September, 2017. ❖ “Best Scientist (Regional Centres) for the year 2017” on 43rd Foundation Day Celebration held on January 09, 2018 at ICAR Research Complex for NEH Region, Umroi Road, Umiam. ❖ Best NICRA-KVK Award-2019 to KVK-East Sikkim in recognition of best efforts in implementation of NICRA-Technology Demonstration Component of ICAR by on June 4, 2019 at ICAR-CRIDA, Hyderabad. ❖ Pandit Deen Dayal Upadhyay Krishi Vigyan Rashtriya Protshahan Puraskar-2018 Zonal Awards to KVK-East Sikkim for ICAR-ATARI-VI on July 16, 2019 by Indian Council of Agricultural Research, New Delhi. ❖ Fellow ISA 2018 by Indian Society of Agronomy, New Delhi conferred on him during 5thInternational Agronomy Congress held at PJTSAU, Hyderabad during November 23-27, 2021. ❖ Fellow IAHF 2018 by Indian Association of Hill Farming, Umiam, Meghalaya and received in National Conference of IAHF on “Rebooting the hill farming for future sustainability and livelihood” during 8-9 June, 2023.