

CURRICULUM VITAE

Dr. Satish Kumar Singh

Professor,

Formerly Head

Department of Soil Science & Agricultural Chemistry

Institute of Agricultural Sciences

Banaras Hindu University

Varanasi-221 005, India



Phone : 09450388652(MO)

0542 -6701639(O)

Fax: 05422368465

E mail : sksingh_1965@rediffmail.com

NATIONALITY

Indian

DATE OF BIRTH

July 15, 1965

EDUCATIONAL BACKGROUND

<i>Institution</i>	<i>Degree</i>	<i>Year</i>	<i>Div.</i>	<i>% marks</i>
Banaras Hindu University Varanasi	Ph.D. (Soil Science & Ag. Chemistry)	1992	-	81.0
Banaras Hindu University Varanasi	M.Sc. Ag. (Soil Science & Ag. Chemistry)	1988	I	87.4
Banaras Hindu University Varanasi	B.Sc. (Ag.)	1985	I	89.0
Banaras Hindu University Varanasi	Intermediate	1982	I	64.2
U.P. Board, Allahabad	High School	1980	I	68.2

FELLOWSHIP OF THE SOCIETIES

Fellow of the Indian Society of Agricultural Chemistry, Allahabad-2009

Fellow of Indian Society of Soil Science, New Delhi, 5th December-2015

AREA OF SPECIALIZATION

Micronutrients Nutrition/ Heavy Metals Pollution

RELEASE OF HIGH Zn WHEAT VARIETY

A Zinc fortified (high Zinc) wheat variety **HUW-711(Malviya-711)** have been released as state variety by Central Variety Release Committee (CVRC) in 87th Meeting of Central Sub-Committee on Crop Standards, Notification and Release of Varieties for Agricultural Crops.

FOREIGN VISIT/INTERNATIONAL ACADEMIC EXPOSURE

1. Visited Switzerland to attend “**14th International conference on the Biogeochemistry of Trace Elements**” (**ICOBTE 2017**) held during 16.07.2017 to 20.07.2017 at ETH Zurich, Switzerland and presented a research paper entitled “**Bioavailability of Heavy Metals (Cd, Cr, Ni, Pb) to French Marigold (Tagetes patula) in Relation to Soil Properties**”
2. Visited **Hong Kong** to attend “**4th International Conference on Contaminated Land, Ecological Assessment and Remediation 2018 (CLEAR-2018)**” held during **16.08.2018 to 18.08.2018** at Hong Kong Polytechnic University in **Hong Kong** and presented my research paper on “**Heavy Metals Accumulation in Post Harvest Soil of Rice and Wheat with Conjoint Application of Sewage Sludge and Fertilizers**” in **oral session** of the conference.
3. Attended **Leadership for Academician Programme (LEAP)**, fully funded by MHRD, GOI and hosted by IIT, Bombay w.e.f. 25.02.2020 to 8.03.2020 at IIT Bombay and w.e.f. **March 15 to 21 at University of Geneva, Switzerland postponed covid pandemic.**

EMPLOYMENT RECORD

Post Held	Pay Scale	Institute/ University	Duration		Period
			From	To	
Prof & Head (Deptt. of Soil Science and Agricultural Chemistry)	Rs.37000 – 67000/-	Institute of Agricultural Sciences, BHU, Varanasi	01.02.2008	31.01.2011	3years
Professor (Agricultural Chemistry)	Rs.37000 – 67000/-	BHU, Varanasi	14.11.2006	Till date	Contd ...since last 16 years
Principal, Degree College.	Rs. 12000-18300/-	U.P.Higher Education Commission	2002	-	Did not join
Associate Professor (Soil Science)	Rs. 12000-18300/-	GBPUA&T, Pantnagar	24.02.1999	13.11.2006	7 years
Assistant Professor (Soil Science)	Rs10000-15200/-	G.B. Pant Univ. Agri.& Technology, Pantnagar	02.11.1998	23.02.1999	1 year
Scientist((Pedology)	Rs. 2200-4000/-	ICAR, New Delhi	1991	-	Did not join
Lecturer (Agricultural	Rs. 2200-4000/- (Sr.	A.S.(PG) College, Lakhaoti,	24.02.1990	01.11.1998	8 years

Chemistry)	Scale Rs. 3000-5000)	Bulandshahr			
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WINTER SCHOOL / REFRESHER COURSE / CONFERENCE ORGANISED

1. **Course Coordinator**- ICAR sponsored Winter School (21days) on ‘Management of soil Quality for sustainable Agriculture” held during Dec.1-21, 2005 at Department of Soil Science, GBPUA&T, Pantnagar
2. **Course Coordinator** of the special course “M. Sc (Ag) in Soil and Water Conservation” to be started at R.G.S. Campus, Barkachha, Mirzapur Dec,206 to Jan 2008
3. **Course Director** of ICAR sponsored Winter School (21days) on” Water and Nutrients management for Crops Under Rainfed Ecosystem of Eastern Part of Uttar Pradesh during Jan 10-30,2010, at Department of Soil Science & Agricultural Chemistry, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005. Science & Agricultural Chemistry, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005.
4. **Course Coordinator** for 10th refresher course in Agricultural Sciences during Feb.23-March 12,2013 organised by Academic Staff College, BHU, Varanasi
5. **Course coordinator** for 11th refresher course in Agricultural Sciences organized during Feb 5-25,2014 sponsored by UGC Academic staff college, BHU, Varanasi

Organizing Secretary of the Conference /Seminar

1. **Organising Secretary** XXXXIII Annual Convention of Indian Society of Agricultural Chemists National Conference on “Soil Management for Achieving Food Security and Nutritional Safety under Normal and Intensified Agroecosystem” Nov.1-2,2010 Department of Soil.
2. **Organising Secretary** :84th Annual Convention of Indian Society of Soil Science and National Seminar “Developments in Soil Science” Nov 15-18,2019 Department of Soil Science & Agricultural Chemistry, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005.
3. **Organizing Secretary** of the workshop on “Earth observation technologies for water quality monitoring and forecasting” at Institute of Agricultural Sciences, BHU, Varanasi organized in collaboration with CSIRO, Australia on 19.05.2022.

CONTRIBUTION IN DESIGNING OF COURSE CURRICULUM

1. **Design** course on “Soil Taxonomy, Soil Survey and Remote Sensing” for National syllabus of ICAR to UG. During the year 2001
2. **Convener** of the committee constituted to prepare a draft syllabus of Soil Science for ICAR- ARS / NET examination-Jan 2006
3. **Chairman of the committee** constituted by ISSS, New Delhi for bringing out a new Book on soils analyses entitled “A text book of Soil Analysis” dt.20.02.2015

MEMBER OF COMMITTEE/SECRETARY

1. General Secretary of Alumni Association of BHU Agriculture. w.e.f. January, 2021.
2. Member of BIS-Soil Health Committee, New Delhi August 2021.
3. Member of RKVY-RAFTAAR-Domain Expert-Agriculture, R-ABI Incubation Committee (RIC) w.e.f. 18.8.2021.
4. Assessor of National Assessment and Accreditation Council, (NAAC), Bangalore w.e.f. September-2021
5. Appointed **Coordinator of Development Cell** of Institute of Agril Sciences, BHU by VC, BHU (Rfe.R/GAD/Misc/0312) w.e.f. 6.1.2022

EDITOR OF THE JOURNALS

1. Editor of Journal of the Indian Society of Soil Science, New Delhi for consecutive eight years (4 terms) from 2013 to 2020.
2. Editor, Pantnagar Journal of Research, G.B.P.U.A.&T Pantnagar since 2016. contd.
3. Editor of the Journal "Annals of Plant and Soil Research" Pub. G.K.V. Society Agra (UP) for 2018 & 2019.
4. Member of the editorial board of the: Agropedology; a research journal published by Indian Society of Soil Survey and Land Use Planning, Nagpur. 2017-18

AWARD

1. **"Best Teacher award"** by Lions Club International, Natraj, Varanasi in its 12th Instalation Ceremony held at Varanasi on 10.09.2014
2. **Life Time Achivement Award -2022** given by Gramin Krishi Vikash (GKV) Society, Agra in recognition of the contriburtion made in the field of agriculture teaching, research and extension.
3. **Best Poster award** of the National web conference on "Technological Approach for Resourse Conservation and Management for Environmental Sustainability" organised online for the poster paper entitled **"Impact of Conjoint Strategy of Nickel and Zinc Application on Soil Nutrients Status and Microbial Functions under Low Nickel Soil"**.

DISTINCTIONS ACHIVED

1. **Councillor** of Indian Society of Soil Science, New Delhi for 2006-07.
2. **Councillor** of the Indian Society of Soil Survey & LUP, Nagpur for 2005-2006.
3. **Fellow of the society:** (i) Elected Fellow of the Indian Society of Agricultural Chemists, Allahabad-2009
(ii) Inducted as Fellow of Indian Society of Soil Science, New Delhi, 5th December-2015
4. **Vice President** (East Zone) for three years (2012-15): Indian Ecological Societ, Punjab Agricultural University, Ludhiana
5. **Vice President** of Indian Society of Soil Science, New Delhi for the biennium (2014 & 15)
6. Awarded **UGC/JRF** fellowship in Ph. D-1988
6. **Stood 1st in ARS-1991** (Soil Science-Pedology)

7. Awarded Certificate of Honour for poster presented during national conference on “Value added agricultural Education –issues & Strategies” held at GBPUA&T. Pantnagar during 21-22 Oct.,2005

8.Awarded Certificate Recognition in acknowledgement of commendable performance while presenting research finding in National Conference “Environmental Pollution Prevention and Control for healthy living on 21 Nov,2000 Organised by *University College of Medical sciences and GTB Hospital, New Delhi*

9.Nominated Member of Judging Committee constituted for awards of ISSS-2006 by Indian Society of Soil Science, New Delhi

10.Nominated Member of Judging committee for Zonal award and ISSS Best Doctoral research presentation award by Indian Society of Soil Science, New Delhi -July 2007.

11.Nominated Member of the committee constituted by the President, ISSS to look in to the matter of developing ideal course curriculum for Soil Science and to bring a revised and enlarged second edition of the book “*Fundamentals of Soil Science*”.

12.Selected for “Best Teacher award” by Lions Club International, Nataraj, Varanasi in its 12th Installation Ceremony held at Varanasi on 10.09.2014

13. Member of the Judging committee for ISSS-Dr.J.S.P. Yadav memorial award for excellence in Soil Science during 2015.

14. Member of the Judging committee for identification of *Honorary member* of the ISSS-and *Platinum Jubilee Commemoration Award* for the year 2015.

15.Member of the peer review team of the **Shastri Indo Canadian Institute** under MHRD, GOI, New Delhi 2018-19.

16.Member of the Peer Review Team of the **DST(SERB), New Delhi** as expert of Agriculture field to evaluate the proposal submitted in the field of Agriculture.

17. Member of the National Advisory committee of “**Global Cleanup Congress-India 2018**” held during 21-25 October 2018 at TNAU. Coimbatore organized By CRC CARE, Global CARE & TNAU.

18.Board member of the “Journal Archives of Agriculture and Environmental Sciences” published by Agriculture and Environmental Sciences Academy, Gurukul Kangri University, Haridwar-2018.

19.Awarded certificate of appreciation for sharing valuable time, knowledge and expertise during the training programme on “Training cum exposure visit at IRRI-SARC on “Climate Smart Agriculture” (Under BAU Climate Resilient Programme) held from May 18 to May 20,2021 at IRRI South Asia Regional Center (ISARC), Varanasi.

EXPERT/ADVISOR IN SELECTION COMMITTEES

1. Expert in selection committee for selection of Asstt.Professor, Assoc. Professor and Professor of *Orissa University of Agriculture and Technology, Bhubneshwar, Orissa.*

2. **Expert in selection committee** for selection of Asstt. Professor, Assoc. Professor and Professor of *Birsa University of Agriculture & Technology, Kanke, Ranchi, Jharkhand, 2011*
3. **Expert in selection committee** for selection of Asstt. Professor of *PDDU Veterinary University, Mathura, U.P. 2011*
4. **Advisor/Member in selection committee** of *ASRB(ICAR) New Delhi* to select Senior Scientists (Agricultural Chemistry) held during 02.02.2012-03.02.2012.
5. **Advisor/Member of the Screening and Selection Committee** of ASRB(ICAR), for promotion of Senior Scientists to Principal Scientist of Agricultural Chemistry :10-11 Oct., 2012
6. **Advisor/Member of the Screening and Selection Committee** of ASRB(ICAR), for promotion of Senior Scientists to Principal Scientist of Agricultural Chemistry :22-23 December., 2013
7. **Advisor/Member of the Screening and Selection Committee** of ASRB(ICAR), for promotion of Senior Scientists to Principal Scientist of Agricultural Chemistry :06.05.2014
8. **Member of selection committee** as subject Expert for the selection of lecturer of Uday Pratap (Autonomous) College, Varanasi...05.08.2014
9. **Member of the selection committee (Advisor)** of Public Service Commission, Allahabad, UP for the selection of Adhinast Krishi Seva Group-3 held during 1-3 December, 2014.
10. **Expert Member of selection committee** for CSIR-RA/SRF held during December 18-19, 2014 at New Delhi
11. **Expert member in selection committee** for the recruitment of Teaching/equivalent posts in Soil Science & Agricultural Chemistry of Orissa Univ. of Agril and Technology, Bhubneshwar on 30.01.2015
12. **Member of the selection committee (Advisor)** of Public Service Commission, Allahabad, UP for the selection of Adhinast Krishi Seva Group-3 held during 2-3 March, 2015.
13. **Member of Selection Committee of SBPUA&T, Meerut** on 21.08.2015 for Assoc. Prof and professor.
14. **Subject expert in career advancement** promotion of teachers meeting on 16.02.2016 at MGKV, Varanasi.
15. **Appointed expert by R.M. Lohia Avadh University, Faizabad** for the inspection of the facilities to allow the B.Sc. (Ag) course in Babu Sant Baksh (PG) College, Sahabganj, Pratapgarh (May-2016).
13. **Expert member of Selection Committee of SBPUA&T, Meerut** on 16.11.2016 for Asstt. Prof./ Assoc. Prof./ Professor promotion under CAS.
14. **Expert (Chancellor Nominee)** in selection committee for the selection of Professor on 4.10.2018 of Orissa University of Agriculture & Technology, Bhubneshwar (Ref, No.148/VC dt:25.09.2018).
15. **Expert in selection committee** of Union Public Service Commission (UPSC) New Delhi for the selection of Additional Commissioner (NRM) held on 15.10.2018 at UPSC, New Delhi {DO.No.F3/35(2)/2018-ADT-11/AC dt:24.9.2018}.
16. **Expert in selection committee** for the post of "Assistant Professor cum Junior Scientist" held during 30-31.10.2018 at Birsa Agricultural University, Kanke. Ranchi. Jharkhand.
17. **Expert (Chancellor Nominee) in selection committee** for the selection of Assistant Professor and Professor held on 9-10.11.2018, Orissa University of Agriculture & Technology, Bhubneshwar.

18. **Member of the selection committee** for the selection of Scientist/ Senior Scientist of CSIR-CIMAP, Lucknow held on 15.11.2018 at CIMAP, Lucknow.

19. **Subject Expert of the selection committee** for the selection of Assistant Professor Soil Science college of CMJM University on 21.10.2020.

20. **Subject Expert and VC Nominee of the selection committee** for the selection of Assistant Professor Soil Science/GPB in college of Dr. R M L Ayodhya University, Ayodhya on 13.01.2021.

21. **Subject expert in Selection committee** for the post of Associate Professor of SSAC of Nagaland University, Nagaland held at Deemapur on 22.11.2021(Letter Dt 3.11.2021).

23. **Subject expert in selection committee** in Deptt of Soil Science on 26.08.2022 of Rajiv Gandhi Central University, Doimukh, Arunachal Pradesh.

24. **Expert in selection committee** of the Professor of of Dr. Ashok Kumar of Jan Nayak Chandrashekhar University, Balia on 18.09.2022

Chairman of Technical Session /Judging committees

1. **Chairman** of the technical Session I (Lead Lectures) on 26.11.2011 in National Symposium on “Balanced Fertilizer to Sustainable Soil Health, Crop Production and Food Security” Organised by Dept. Soil Science, GBPUA&T, Pantnagar during Nov 25-26,2011.

2. **Chairman** of the session-IV-Soil and the Environment-I (Oral Presentation) dt.23.10.2013 (2-4PM) in national seminar held during Annual convention of ISSS at CAZRI, Jodhpur

3. **Chairman** of Judging Committee of Zonal award and Best Doctoral Research Presentation award held on 28.08.2013 at Department of Soil Science & Agril. Chem., I.Ag.Sci., BHU, Varanasi.

4. **Chairman** of the “Budget and Finance Committee” -2014 of Indian Society of Soil Science, New Delhi.

5. **Chairman of the committee** constituted by President ISSS for judging best poster presentation award during 79th Annual convention of ISSS held from Nov 24-27,2014 organised by PJTSAU in collaboration with ANGRAU, Hyderabad

6. **Chairman of the committee** constituted by ISSS, New Delhi for bringing out a new Book on soils analyses entitled “**A text book of Soil Analysis**” Dated:24.02.2015

7. **Rapporteur of the session -4** “Information and Communication Technology (ITC) and Agricultural Extension” on 21.01.2015 at USAID-AIP Indo-US collaborative workshop on “Innovation in Agricultural Education and Extension System: Outcomes and Lesson Learned” during January 20-21, Hotel Radisson, New Delhi

8. **Chairman of the session** in National Conference on “Managing soil resources for environmental sustainability: Challenges and Perspective “during 9-10 Dec, 2016 organised by IESD, BHU, Varanasi.

9. Chairman of the technical session-II (Plant Recourse Management) in training meeting cum workshop “Innovation in Natural Resource Management” held on 5.2.2018 at Institute of Agricultural Sciences, BHU, Varanasi Sponsored By: Coromandal Institute, Hyderabad.

10. Chairman of the Technical Session-V (Fertilizer and Pesticide use Vis-à-vis Soil Health) during National Seminar on Soil and Civilization held on 5.12.2018 at Institute of Agricultural Sciences, BHU, Varanasi.

11. Chairman of the Technical Session- Corporate presentation on 16.11.2019 during 84th Annual convention of Indian Society of Soil Science and National Seminar “Developments in Soil Science” held during Nov.15-18, 2019 at BHU Varanasi.

12. Chairman of the Judging Committee of the presentation made on the occasion of the World Soil Day on 5.12.2020 at IASci., BHU.

13. Chairman of the technical session-II Natural Resource Management (14:30 to 18:30 IST) first International Conference (Virttual Mode) entitled “Recent advances for managing sustainable soil health and crop production” Organised by Gramin Krishi Vikash Society (GKVS), Agra during 18-20.02.2022.

Member of Board of Studies/Research Committees

1. Member of “Board of Studies” of SSAC & Environmental Sciences of U.P.(Autonomous) College (MGKV university), Varanasi for 2008-09,2009-10, 2011-12,2012-13,2013-14

2. Member of the Board of Studies of MJPF University, Bareilly during 2012-13,2014-15

3. Member of BOS Meerut University, Meerut,2008-09.

4. Member of BOS of Mahatma Gandhi Kashi Vidyapeeth, Varanasi during 2010-11 & 2012-13.

5. Nominated “External expert’ by VC in Research Committee of MGKV, Varanasi for two years i.e. 09.12.2017 to 08.12.2019.

6. Member of the board of studies of Department of the Agricultural Chemistry and Soil Science and Environmental Sciences of UP (Autonomous) College, Varanasi of MGKV university and attended meeting of the BOS on 13.11.2018.

7. Member of the Advisory Committee and Executive Committee of University Consultancy Service (UCS) of the Faculty of Agriculture, Institute of Agricultural Sciences, BHU since 2019.

8. Member of the Board of Studies of Agricultural Chemistry and Soil Science as External Member for 2020-21,21-22 & 22-23. of MGKV, Varanasi.

9. Member of BOS as subject expert in SSAC of Dr R M L A University, Ayodhya, Dated:17.06.2021.

10. Member of RDC for 2 years (Nov 21 to Nov 23) of Agril Chem and Soil science by VC of JNCSuniv, Balia letter Dt :9.11.2021.

11. Member of Board of Post Graduate Studies (BPGS) meeting (15th) of department of Agricultural Chemistry and Soil Science Nagaland University, Meeting on 9.5.2022.

12. Member of BOS of MPUA&T, Udaipur. of Soil Science and Agricultural Chemistry wef June 2021 to June 2024(3years) letter:25.06.2021. Attended online meeting on 12.04.2022.

Memorial Lectures

1. Delivered **Sushila Bala De Memorial lecture** on “Micronutrients management for increasing crop productivity” in Symposium on “Water and fertilizer Management:

Present day Chemical agriculture in India” held during 40 & 41st joint annual convention of ISAC, at BAU, Ranchi during December 12-13, 2008.

2. Delivered **“Prabha Singh Memorial Lecture”** in 44th Annual Convention of ISAC & National Symposium on “Balanced Fertilizer to Sustainable Soil Health, Crop Production and Food Security” Organised by Dept. Soil Science, GBPUA&T, Pantnagar during Nov 25-26, 2011.
3. Delivered 7th **Dr S.N. Saxena Memorial Lecture** (virtual) of Indian Society of Soil Science (ISSS) on “Current State of Knowledge in diagnosis and Management of Micronutrients Deficiency in Indian Agriculture” organized by Ranchi Chapter of ISSS, Birsa Agricultural University, Ranchi, Jharkhand on 27.09.2021.

Key Note Lecture

1. Delivered Key Note Lead Lecture on 20.05.2023 entitled “Micronutrients Scenario of Indian Soils vis –a vis Plant and Human Health” in International Conference on Ecological Perspective of Agricultural and Biological Sciences organised by KNIPSS, Sultanpur, UP during 20-22 May, 2023.

Invited Lectures

1. Delivered a invited lecture entitled “Recent developments in micronutrients managements in Agriculture” in 7th refressor course in agricultural Sciences under the theme “Recent Developments in agriculture” organized by UGC-ASC, BHU for college and University teachers during Jan17-Feb.06, 2009.
2. Delivered invited lecture on “Impact of sewage sludge application on crop production and soil health”. during 42 annual convention of Indian society of Agricultural Chemists and National symposium on “Maintenance of soil health and food security” Nov. 27-28, 2009 at Bidhan Chandra Krishi Viswavidyalaya, Mohanpur.
3. Delivered Invited Lecture on “Micronutrients Fertilization for Sustainable Crop Production” UP Autonomous College, Varanasi Dated 11.11.2009
4. Invited Lecture on “Tikau Kheti ke liye Jivans Padarth tatha Poshak Tatvon ka Mahatva: Kami Ke lakshan evem Upchar” Regional Soil Testing Laboratory, Varanasi Dated: 25.11.2009
5. Invited lecture in winter school on ICAR sponsored winter school on 16.01.2010 “Water and Nutrients management for Crops Under Rainfed Ecosystem of Eastern Part of Uttar Pradesh” held during January 10-30, 2010 at BHU
6. Delivered Invited Lecture on “Micronutrients Management in soil” in UGC sponsored Refresher course on Micronutrients on 19.01.2010 at ASC, BHU
7. Delivered Invited lecture on “Micronutrients Management for Increasing Crop Productivity”, ASC, BHU-05.02.2011
8. Delivered Invited lecture in Session –Farmers –Scientists Interaction Meet of International conference organized by Ag. Economic deptt. BVHU on –Soil Health and Nutrients Management for sustaining Agriculture on 23.1.2011
9. Delivered Invited lecture on “Micronutrients management for increasing crop productivity”. at Rajendra Agricultural University, Pusa on 22.01.2012
10. Delivered invited lecture entitled “Diagnosis and mitigation of zinc deficiency for sustaining crop production and human health” on 19.10.2014 in training programme “Management of Soil Health: Challenges and Opportunities” organized by Deptt. of SSAC, Centre of Advanced faculty training, JNKVV, Jabalpur, MP.

11. Delivered invited lecture entitled "Management of zinc in soil for sustaining crop production and soil health" in refresher Course organized by IESD, at Academic Staff College, BHU on 22.10.2014
12. Delivered invited lecture at UP Autonomous College on 13.02.2015 entitled "Management of Zinc in Soil for Sustaining Crop productivity and Human Health"
13. Delivered invited lecture entitled "Impact of climate change on soil and mitigation strategy" on 26.10.2015 in National training on "Climate resilient ...sustainable agriculture" during Oct 14 to 3rd Nov., 2015 by Centre of Advanced faculty training, Deptt. of SSAC, at JNKVV, Jabalpur.
14. Delivered invited lecture on "Importance of Micronutrients in Soil and Analytical Methods using AAS on 31.12.2015 Organised by: Regional Soil Testing Laboratory, Varanasi under "National Mission for Sustainable Agriculture"
15. Delivered invited lecture in International conference on "Sustainable Natural Resource Management: From Science to Practice (SNRMSP). during 12-13 January, 2017 at BHU, Varanasi organized by Deptt of Farm Engg. IAS, BHU. on the topic "Management of Soil Resources for Mitigating Effects of Zinc Deficiency on Crop Production and Human Health" on 12.01.2017.
16. Delivered invited lecture entitled "Micronutrients management for enhancing crop productivity" on 14.09.2017 in the ICAR sponsored Summer "Micropropagation techniques and physiological, biochemical and molecular interventions for sustained plant production under climate change scenario", held in Deptt. of PPH at BHU during 6-26 September, 2017.
17. Delivered invited lecture entitled "Importance and Management of Micronutrients in soil for increasing crop productivity and enhancing human health" on 08.01.2018 in the Ministry of Agriculture and Farmers Welfare, GOI, sponsored training programme entitled "Soil health management for sustaining soil fertility and Agricultural Production", held at Damodar Valley Corporation, Hazaribag, during 03-09 January, 2019
18. Delivered invited lecture on 5.2.2018 on "Management of Zinc in Agriculture for increasing crop production and enhancing nutritional security in training cum workshop on "Innovation in natural Resource Management" held at Institute of Agricultural Sciences, BHU sponsored by Coromandel. Hyderabad.
19. Delivered invited lecture at ICAR- Indian Institute of Vegetable Research, Varanasi on 19.02.2018 on "Micronutrients management in crop production Vis-à-vis Vegetables" in MANAGE Hyderabad sponsored FTFITT training programme on "Production, processing and marketing of Organic Vegetables" held during Feb 06-20, 2018 at IIVR, Varanasi.
20. Delivered invited lecture on 28.2.2018 entitled "Application of Zinc in Agriculture: Twin benefits of crop production and human health" in 4th Winter programme (Feb.18-March 3, 2018) at UGC-Human Resource Development Centre, BHU, Varanasi.
21. Delivered invited lecture on 16.3.2018 entitled "Micronutrients management for Increasing Crop Production to feed the Teeming Millions" in 79th Orientation Course (March 4-31, 2018) at UGC-Human Resource Development Centre, BHU, Varanasi.
22. Delivered invited lecture on "Micronutrients Management in Chilli, Tomato and Corn" on 28.06.2019 in customized training on Chilli, tomato and corn crop for farmers, Agri entrepreneurs and BLE executives" held at BHU, Varanasi

23. Delivered three lectures on 4, 5, and 6 November 2019 respectively on “Status of Soil and Fertilizer uses and forecast in Uttar Pradesh” organized by IRRI-South East Asia Regional Center (ISARC), Varanasi during farmers day programme on Varietal Exhibition through ISARC Crop Cafeteria for Mirzapur, Varanasi, Chandauli and Jaunpur Farmers.
24. Delivered invited lecture entitled “A-B-C of Zn in crop production and human health” on the occasion of World Soil Day on 05.12.2020 in virtual platform on the invitation of N D University of Agriculture & Technology, Ayodhya.
25. Invited Lecture in ICAR sponsored Wintert School on “Climate Smart Agriculture for Sustainable Production” Jan 18 to Feb 7. (Rescheduled March 28-April 17, 2022) Organised by Centre of Advance Studies on Climate Change, RPCAU, Pusa, Bihar. Delivered lecture on 14.04.2022 (online mode) on – Micronutrients: Its suitability under Changing climatic scenario”.
26. Delivered lecture (online) entitled “Micronutrients for Soil, Plant and Human Health” on 30.11.2022 organised by Div of Soil Sci & Agril Chem, ICAR-IARI, New Delhi on the occasion of World Soil day.

International

1. Delivered two lectures on “Site specific nutrients Management” as eminent resource person for training cum exposure visit of Bihar progressive farmers organized by IRRI-SARC, Varanasi on 21.05.2022 and 27.05.2022.

EXPERIENCE

(A) TEACHING

1. **More than 32** years experience of UG and PG teaching.

UG Courses taught

- Fundamentals of soil science
- Soil fertility, fertilizers and manures
- Rural Agricultural Work Experience
- Principles of Soil Science
- Conservation and management of soil and water resources
- Work Programme
- Soil testing and fertilizer recommendation
- Soil survey
- Fundamentals of Soil Science (BHU)
- Wasteland and their management
- Introduction to Soil Science

PG Courses taught

- Soil Genesis and Physical Properties of the soils
 - Genesis, Morphology and Classification of Soil
 - Land use Planning and watershed Management
 - Pedology
 - Soil mineralogy, genesis and classification
 - Advanced Soil Fertility
 - Soil, water & air Pollution
 - Soil Genesis and Micropedology
2. Prepared a laboratory manuals and books.
 3. Design course on “*Soil Taxonomy, Soil Survey and Remote Sensing*” for National syllabus of ICAR to UG students during 2001.
 4. Prepared a draft syllabus of Soil Science for ICAR- ARS / NET examination-Jan 2006.
 5. Worked as Examiner / paper setter in different universities.
 6. Attended 10 orientation / refresher courses

(B) RESEARCH

1. Research experience of more than 31 years on soil survey, classification, micronutrients and heavy pollution.
2. Published 141 Research papers in national (106) and international (35) journals
3. Presented 51 Research papers in symposiums / conferences / seminars.
4. Published 12 books and 21 book chapters.
5. Participated in 47 National and 16 International conference / symposia.
6. Guided 29 M.Sc.Ag. and 9 Ph.D. students.
7. Served as member of Research Advisory Committee of more than > 85 M.Sc.Ag. and >50Ph.D. students of the departments of Soil Science & agricultural chemistry, Agronomy, Horticulture, Entomology and Farm engineering.
8. Successfully completed 20 research projects funded by ICAR, CST, USAID, IRRI etc.

(C) EXTENSION

1. Delivered talks in Kisan Gosthi (>54)/farmers fair/field day organised by the University, State Government and Semi Government agencies.
2. Scientific lectures (>43) to extension personals in trainings organized by the University, NGO and government agencies.
3. Published 38 technical articles in magazines, Kisan Diary and News papers.
4. Delivered 11Radio talks at All India Radio.
5. Delivered 26 talk on doordarshan

6. Conducted FLD on farmers field to show the benefits of micronutrients application in oil seeds and pulse crops.
7. Produced 19 extension folders on various technologies useful to the farmers.

(D) ADMINISTRATION

1. Assisting in management of Micronutrient laboratory since 1999.
2. In-charge, Micronutrient Lab/Net House facility of soil Science department.
3. Incharge, of Kisan mela Stall committee.
4. Treasurer of Pantnagar Chapter of Indian Society of Soil Science.
5. Worked as course coordinator of Special course on MSc. (Ag) in Soil and water conservation to be started at RGSC, Barkachha, Mirzapur.
6. Incharge of Micronutrients Lab and AAS instrument lab w.e.f. 2007---till date
7. **Head of Department, Deptt. of Soil Science & Agricultural Chemistry, I Ag.Sc. BHU w.e.f. 1.2.2008 to 31.01.2011.**
8. **Professor Incharge-Examination, IASc., BHU w.e.f.16.03.2011 to 29.09.2012**
9. President of Varanasi Chapter of Indian Society of Soil Science W.e.f. 2012 to 2015.
10. **Professor Incharge, Agriculture Research Farm, BHU, Varanasi w.e.f.09.10.2013 to 13.05.2017**
11. **Coordinator-Development Cell** of the Institute of the Agricultural Sciences.BHU to look after the construction, progress work/work management of Agriculture farm, Dairy farm and Projects /Schemes running in the Institute with more effectiveness and planned way w.e.f.06.01.2022 to till date.
12. **Appointed Coordinator of the Hostels** of the Institute of Agricultural Sciences for a period of three years w.e.f.23.08.2022 to 22.08.2025by VC, BHU. (no. AB/19-A-C/Pt, II/2022/-00136 dated: Aug,25,2022.

OTHERS

1. Delivered 20 lectured in National trainings/ summer/ winter schools organized by Departments of Soil Science, Agronomy and Agrometeorology in the University.
2. Served as paper setter / Examiner in U.P. College, Varanasi, CCSHAU, Hisar, CSUA&T, Kanpur, NDUA&T, Kumarganj, IGKVV, Raipur, , BRA Univ. Agra, ,YSPUH& F,Solan and PAU,Ludhiana.
3. Evaluated M.Sc.Ag. and Ph.D. thesis of BHU, Varanasi, BRA Univ. Agra and CCSHAU, Hisar, Calcutta University, Kolkota, Utkal University, Orissa,
4. Served as observer, paper setter and checker in University Entrance Examination
5. **Rapporteur** of the “Soil Health Enhancement Session” of the workshop on Strategies for Agriculture Renewal Year of Uttaranchal held during May 10-12, 2006 at GBPUA&T, Pantnagar.
6. **Member of the BOS / RDC** of U.P. College, Varanasi and CCS University, Meerut, M.J.P. Rohil Khand University, Bareilly, MGK Vidyapeeth Varanasi.

7. **Reviewer** of the research paper of Journal of Indian Society of Soil Science, New Delhi, Indian Journal of Soil Conservation, Dehradun., Agropedology, Nagpur, Pantnagar Journal of Research, Pantnagar and Clean Soil Air and Water (John Willey & Sons), Archives of Agronomy and Soil Science.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. Life member of Indian Society of Soil Science, New Delhi: w.e.f.27.12.2010
2. Life member of Indian Society of Soil Survey & Land Use Planning, Nagpur: w.e.f.11.06.2004
3. Life member of Pantnagar Journal of Research, Pantnagar: w.e.f.04.07.2006
4. Life member of Indian Association of Soil and Water Conservationists, Dehradun: w.e.f.10.03.2012
5. Technical and Professional associate member of FAI, New Delhi w.e.f.1.04.2016
6. Life member of Mahamana Malaviya Foundation, Mahamanapur, Varanasi w.e.f.24.03.2016.
7. Member of the review team for the assessment of the project proposal under “Earth Science” of the Science and Engineering Board (SERB), DST, GOI, New Delhi. march-2017.
8. Member of the Review committee as Agriculture expert of Shastri Indo-Canadian Institute (under MHRD) New Delhi, January, 2017.

STUDENTS GUIDED

M.Sc.Ag. (Soil Science / Agriculture Chemistry)

Name	Year	Thesis
1. Narendra Singh Teotia	1991	Taxonomic Study of soils in relation to sulphur and oilseed crops (Toria) of Gulaoti Block (Bulandshahr) U.P.
2. Girraj Singh	1991	Study of classification and soil fertility status of Tehsil Khair (Aligarh) U.P.
3. Mr. Surendra Singh	1992	Characterization, classification and micronutrient status in some soils of Sikandarabad Block, Bulandshahr (U.P.)
4. Mr. Rajendra Kumar	1993	Characterization, Taxonomy and fertility of some soils of Jalalpur Block Distt. Faizabad U.P.
5. Mr. Ashok Kumar	1995	Effect of effluent discharge on soil and water quality around Sikandarabad industrial area, Bulandshahr, U.P.
6. Mr. Sunil Kumar Singh	1997	Magnitude of soil variability in morphological, nutritional and physico-chemical properties under crop land and garden ecosystem
7. Mr. Peeyush Mishra	2004	Status of available soil nutrients under intensively cultivated agro- ecological regions

8. Ms. Poonam Varshney	2004	Effect of rates and frequency of Zn application on yields and Zn uptake of hybrid rice – wheat sequence.
9. Mr.A.P. Kushwaha	2008	Delineation of Micronutrients and Pollutant Elements Status of Rajiv Gandhi South Campus (Barkachha) , Mirzapur.
10. Mr. BiswaJit Biswal	2009	Bioavailability of Heavy Metals to Marigold (<i>Tagetes erecta</i>) in Relation to Soil Properties
11. Mr. Ashish M. Latare	2010	Effect of Conjoint Application of Sewage Sludge and Fertilizers on Growth, Yield and Uptake of Heavy Metals in Rice (<i>Oryza sativa L</i>)
12. Mr. Omkar Kuma	2011	Residual Effect of Sewage sludge and Fertilizer Application on Growth, yield and Uptake of Heavy Metals in Wheat (<i>Triticum aestivum L.</i>)
13. Mr. Lokesh Kumar Reg.2010	2012	Effect of Dates of Sowing and Fertilizers Levels on Growth and Yield of Wheat (<i>Triticum aestivum L</i>)
14. Mr. Balu Ram Reg.2011	2013	Effect of S, Zn and B application on growth and yields of rice (<i>Oryza sativa L.</i>)
15. Mr. Sarang Pari Gaur Regtd-2011	2013	Nutrient Management for Improving Soil Quality and sustaining Productivity of Rice (<i>Oryza sativa L.</i>)
16. Mr. Hanuman Singh Jatav-Reg.2012	2014	Effect of Biochar on availability of Heavy Metals in soil amended with Sewage Sludge
17. Mr. Akash Deep Jaiswal- Reg 2012	2014	Effect of S, Zn and B application on growth, yield and nutrient uptake by Mustard
18. Mr. Ayan Das- Regd.2013	2015	Effect of different methods of Zn application on growth, yield and biofortification of Zn in rice (<i>Oryza sativa L.</i>).
19. Ms.BabySonam Regtd.2014	2016	Response of Zn, S and B application on growth and yield of hybrid rice (<i>Oryza sativa L.</i>) grown in an acid soil
20. Mr.Surendra Singh JatavReg.2014	2016	Efficacy of different methods of Zn application for correction of Zinc deficiency and its biofortification in hybrid rice (<i>Oryza sativa L.</i>).
21. Ms. Poonam Singh Patel Regtd.2015	2017	Evaluation of different methods of zinc application to rice in an Inceptisol of Varanasi.
22. Ms. Neelam Yadav Regtd.2016	2018	Evaluation of Zinc, Boron, Sulphur and Sewage Sludge application for increasing the productivity of Mustard [<i>Brassica juncea (L.) Czern & Cosson.</i>] in an Inceptisol
23. Mr. Ankesh Kumar Chanchal Regtd.2016	2018	Direct and residual effect of boron application on growth, yield, nutrients concentration and availability of boron in soil under rice wheat system.

24. Ms. Adyasha Swain Regtd.2017	2019	Effect of sewage sludge on growth, yield and heavy metal accumulation in spinach (<i>Spinacia oleracea</i> L.)”
25. Mr. Kiran Kumar Mohapatra Regtd.2017	2019	Effect of Different Levels of Zinc Application in Soil on Growth, Yield and Bio-Fortification of Zinc in Hybrid Rice (<i>Oryza sativa</i> L.)”
26. Ms. Sarbsree Goswami Reg,2018	2020	Residual Effect of Nickel on Growth and Yield of Cowpea (<i>Vigna unguiculata</i> L.) and its Interaction with Zinc
27. Ms. Manjulata Rana Reg.2018	2020	Residual Effect of Nickel on Growth and Yield of Cowpea (<i>Vigna unguiculata</i> L.) and its Effect on Nitrogen Utilization of the Plant
28. Ms. Soumya Das Reg.2019	2021	Effect of Nickel on Growth and Yield of Cowpea (<i>Vigna unguiculata</i> L.)
29. Mr. Anuj Poudel Reg.2019	2021	Evaluation of efficacy of Nano-phosphorus Formulation as a source of Phosphorus fertilizers in wheat (<i>Triticum aestivum</i> L.)
30. Vishal Tiwari Reg.2020	2022	Effect of FYM and Sewage-Sludge on Solubility and Phyto-availability of Ni and Zn Applied under rice-wheat sequence grown in Nickel Deficient Soils of Eastern Uttar Pradesh
31. Shakshi Tanwar Reg.2020	2022	Effect of different levels of boron on growth, yield and quality of Mustard
32. Sundeep Kumar (Reg.2021)	Contd..	Effect of Biogas Slurry based Sudhan Products on Growth and Yield of Rice and Wheat crops in Varanasi, UP.
33. AAditya Nimbalkar (RGSC) (Reg.2021)	Contd..	Effect of Biogas Slurry based Sudhan Products on Growth and Yield of Maize and Mustard crops in Varanasi, UP.
34. M. Abhishek (Reg.2022)	Contd..	Not yet decided
35. Dayal Singh (Reg.2022)	Contd..	Not yet decided
36. Varun Kumar Diwakar (Reg.2022)	Contd..	Not yet decided
37. Aniket Maurya (Reg.2022) RGSC-Barkachha	Contd..	Not yet decided

Ph.D (Soil Science /Agriculture Chemistry)

1. Mr. Shashi Shekhar Mishra	1998	Response of Maize to nitrogen, potassium and zinc fertilization under saline condition
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2. Mr. Sanjay Sachan	2004	Studies on heavy metals contamination in effluent irrigated areas of Moradabad, Uttar Pradesh.
3. Asha Shahu asha4u.bhuzone@gmail.com	2011	Soil Properties in relation to Cadmium Toxicity and Phytoremediation Potential of African Marigold (<i>Tagetes spp</i>)
4.Mr. Latere Ashish Marotrao (Reg-2010 July)	2015	“Direct and residual effect of sewage sludge on yield, availability of heavy metals and soil fertility in rice-wheat cropping system”
4. Omkar Kumar (Reg-2011 October)	2016	Suitability of extractants, critical limit of nickel and its response to barley (<i>Hordeum vulgare</i> L.) grown in Inceptisols of Varanasi.”
5. Sobh Nath Yadav (Reg-2011 October)	2016	Suitability of extractants, critical limit of boron and its response to mustard (<i>Brassica juncea</i> L.) grown in Inceptisols of Varanasi
6. Maneesh Kumar (Regtd.2014-Jan)	Dec 2018	Integrated use of organic and inorganic sources of nutrients on soil fertility and productivity of rice –wheat cropping sequence
8.Hanuman Singh Jatav (Regtd.2014-Jan)	June-2021	Effect of conjoint application of sewage sludge and fertilizers on soil fertility, heavy metals availability and yield of hybrid rice-wheat cropping sequence
9.Ms. Yukti Verma (Reg.Sept 2015)	2022	Assessing bioavailability of zinc and response of hybrid maize (<i>zea mays</i> L.) to zinc oxide nanoparticles in an Inceptisol
10.Surendra Singh Jatav Regtd.Dec,2016	Jan-2022	Effect of conjunctive application of sewage sludge and fertilizers on crop productivity and soil health under hybrid rice- wheat cropping system”
11. Abhik Patra (Reg.2017)	July-2023	Effect of Nickel Application on Nitrogen and Zinc Utilization by Soybean (<i>Glycine max</i> L.) Grown Under Low Nickel Soil
12.Ayush Bahugura (Reg.2018)	Submitted	Effect of Nickel Application on Iron and Manganese Utilization by Soybean (<i>Glycine max</i> L.) Grown in Nickel deficient Soil and its impact on growth and yield
13.Ms.Astha Pandey(Reg.2019)	Contd..	Studies on arsenic contamination and mitigation using biochar as adsorbant
14.Sayon Mukherjee (Reg.2021)	Contd...	Chromium Contamination in Tannery Effluent Irrigated Soil and it's Mitigation Using Modified Biochar.

15.Sarvshree (Reg.2022)	Goshwami	Contd...	Synopsis preparation in progress
16.Aidyasha (Reg.2022)	Priyadarshini	Contd...	Left, Joined Job
17.Subham Jaiswal (Reg.2022)		Contd...	Synopsis preparation in progress
18.Purushottam Dev (Reg.2022)		Contd...	Synopsis preparation in progress

Ph.D. Co- Supervisor

1. Department: Nephrology, IMS, BHU: Student: Archana Vaisha: Advisor: Dr.R.G. Singh (Degree Awarded)
2. Department of Farm Engineering, IAS, BHU: Student: Advisor: Prof.G.C. Mishra (Degree awarded 2016)

RESEARCH PROJECTS

(I) Completed-20

- 1.AICRP on micro and secondary nutrients and pollutant elements in soils and plants funded by ICAR, New Delhi. (1999-2006)-**Co-PI**
- 2.Nutrient and water management in Litchi with intervention of micro irrigation in Uttaranchal funded by HTM, MM-I, ICAR, New Delhi. -**Co-PI**
- 3.Mechanisation of rice – wheat cropping system for increasing productivity funded by ICAR (NATP), New Delhi.**Co-PI**
- 4.Development of agro- ecological and socio-economic based models for small and marginal farmers in western districts of U.P. funded by UPCAR, Lucknow.**Co-PI**
- 5.Studies to develop cropping system and drainage system for waterlogged area. funded by UPCAR, Lucknow.**Co-PI**
- 6.Evaluation of extractants, Critical Toxic concentration of heavy metals and phytoremediation ability of Marigold (*Tagetes erecta* L) grown on metals enriched and sludge treated soils. Council of Science & Technology, Lucknow, UP. (8.2.2009-7.2.2011)-Rs.**3.76 Lakhs-PI(P-26/78)**
- 7.Long term effect of INM on sustainability of rice-wheat cropping system and soil fertility in eastern UP. Funded By CST, Lucknow (2010-12) **Rs.4.48 lakh-Co PI**
- 8.Enrichment of Farmers of Varanasi and Mirzapur regions through procurement and distribution of certified seed of Rabi and Kharif crop varieties under Seed Village Programme. Funded by MOA, DAC, New Delhi. (2011-12) **Rs.60 Lakh approx-Co-PI**

9. Preparation of GIS and GPS based Soil Fertility Map for Selected Districts of the Country (May 2011-May 13) MOA, ICAR-Indian Institute of Soil Science, Bhopal. (18.6.2011-31.3.2012) **(Rs.16.17 Lakh)-PI(P-27/125)**
10. Impact assessment of sewage sludge and effluent on soil and water quality around sewage treatment plant (STP) Bhagwanpur, Varanasi of CST, Lucknow, **Rs.4.48 lakh** (10 July, 2011 to 9 July 2013)-**Co-PI**
11. Nutrient Management for Improving Soil Quality and sustaining Crop Productivity of Rice –Wheat System”, USAID-AIP (Exp.Learning) of **Rs.19.044 lakh.** (7.8.2012-31.3.2014)-**PI (Dev. Scheme No.4189)**
12. BHU and CSISA collaborative program 2014-15(**Budget :5.0 lakh**) on 1: Field testing of Rice-Wheat Crop Manager (RWCM) in Eastern Uttar Pradesh; Study 2: Nutrient omission plot technique trials to assess the response of different nutrients affected by wet tillage and landscape position; Study 3: Developing correlation between soil test value and soil properties and field characteristics for predicting soil nutrient status.-**Associated Scientist**
13. Enhancing resilience of agriculture to climate change in the mid gangetic plain. Collaborative research project with ICAR-IARI, New Delhi under NICRA programme (7.9.2015 to 31.3.2017) **Rs.14.85 lakh. (Code-M-21-139)-PI**
14. Mitigation of arsenic accumulation in rice through soil and water management. Funded by ICAR, New Delhi. A.P. Singh and S.K. Singh (**Co-PI**). 2015-17 (**Rs.9.52 lakh**)-**CO-PI**
15. “Generating Soil Information to Develop Crop Management Practices for Stress Tolerant Rice Varieties” funded by IRRI under STRASA_South Asia programme. 22.04.2016 to 28.2.2019)- **Budget {(Rs.3.30856 Lakh (2016) + Rs.3.41364(2017))} (Code-P-30/95)-PI**
16. Bio-fortified Wheat for Improved Human Nutrition: **Harvest Plus: funded by IFPRI (USA) & CIMMYT, Mexico, Budget USD 105,000 for 15 years (2004-2018)-Associated Scientist**
17. Revival of village pond through scientific intervention. Funded by DST, New Delhi A.K. Ghosh and S.K. Singh. 2017-19 (**Rs.28.82 lakh**).
18. Evaluation of Bioefficacy of MycoMix and MON90506 as seed treatment in wheat (*Triticum aestivum* L) **Rs.3.35 lakh** Code-(M-27-194) 2019-20 Rabi Season (17.10.2019 to 16.5.2020) funded by Novozyme South Asia PVT LTD, Bangalore.
19. “Improving Livelihood Security and Entrepreneurship Opportunities of Tribal Youths in Sonbhadra District of Eastern Uttar Pradesh” Sanctioned **1.0 Crore** for 2019-20.
20. Soil test based crop response (STCR) correlation studies with aromatic crops and its field validation in eastern plain zone of Uttar Pradesh. Funded by CST, U.P. Y.V. Singh and S.K. Singh. 09.08.2017 to 09.08.2020(**10.50 lakh**).
21. Evaluation of Efficacy of Nano-Phosphorus Formulation as a Source of Phosphorus Fertilizers in Wheat (*Triticum aestivum* L). (1.12.2020 to 5.12.2021):**Rs.6.99 lakh(Code:M.27/227).**

22. Yield forecasting for transplanted rice, maize, wheat, mustard in eastern endogengatic plain of Uttar Pradesh under FASAL' MOES project Code (M 21-77) (2011-12 to contd (26.08271 lakh till 2014-15 contd.....)-CO-PI

(II) In operation-04

(a) As PI-03

1. Enhancing resilience of agriculture to climate change in the mid gangetic plain. Collaborative research project with IARI, New Delhi under NICRA programme (27.12.2017- 31.3.2020) **Rs.21.26 lakh. (Code-P-27/135)**
2. Effect of Biogas Slurry based Sudhan Products on growth and yield of Important crops in Varanasi Regions (UP). Funded by National Dairy Development Board (NDDB), Anand, Gujrat. (1.6.2022-31.5.2023) Budget: Rs.15.576 lakh **(Code:M-27/228)**.
3. "Evaluation of effect of T-90 and TN-3060 dispersible granules application on Qualitative & Quantitative parameters, Nutrient uptake, Soil physicochemical properties, Growth and Yield of Rice crop" Funded by Sulphur Mills Limited, Mumbai. 1.6.2022 - 1.1.2023. **Rs.14,27,800/(Code:M-27/286)**

(b) As Co PI-01

1. Soil test-based fertilizers recommendation for targeted yield of Wheat, Rice and Maize in Eastern Plain Zone of Uttar Pradesh. Funded by IISS (ICAR) Bhopal, Project Code-P-27-124(2010.....2019(**Rs.10.02 lakh**))

CONSULTANCY ASSIGNMENT

1. Evaluation study on doubling farmer income in Bundelkhand region of Uttar Pradesh, India (2019). Contract between International Crop Research Institute for semi arid topic (ICRISAT) Hyderabad and Institute of Agricultural Science BHU Varanasi. Duration: 15 Aug 2019 to 31 Dec 2019. Assignment fee Rs 10.26 lakhs.

2. Final evaluation of Kisan Mitra doubling farmer income project in Bundelkhand region of Uttar Pradesh, India (2021-22). Contract between International Crop Research Institute for semi arid topic (ICRISAT) Hyderabad and Institute of Agricultural Science BHU Varanasi. Duration: 1 December 2021 to 31 March 2022. Assignment fee Rs 14,48,718/.

SIGNIFICANT RESEARCH ACHIVEMENTS

- ✚ Characterized and classified the soils of district Jaunpur, U.P.
- ✚ **Zinc** fertilizer application schedule for pearl - millet wheat sequence in Ustipsammments have been developed. Application of 2.5 Kg Zn & 2.5 t FYM/ ha at alternate years was found optimum
- ✚ Technology for increasing fertilizer use efficiency of Zn using low doses of organic has been developed. It was found that fresh cow dung increased the fertilizer use efficiency of Zn applied in combination with it.

- ✚ Foliar spray of 0.5% Zinc sulphate + 1% Urea on mustard was found to be economically beneficial.
- ✚ Critical toxic concentration of Cd in soil and plants for fenugreek, spinach, marigold, lady's finger and French bean has been established.
- ✚ A suitable extractant (Mehlich-3) for extraction of Cd, Cr and Ni from soil have been identified which is less time taking as well as economical over DTPA.
- ✚ It was established that Cr is the major culprit metal for ground water contamination being less reactive and high mobility in soil.
- ✚ Zinc and boron fertilization schedule in Hybrid Rice for *Tarai* region has been developed
- ✚ Multimicronutrients application trial conducted taking different oilseed and pulse crops and recommended for its application in Arhar, Mung, Lentil, Groundnut, soybean, Mustard, Urd, Gram and Sugarcane.
- ✚ GPS based soil sampling is underway to prepare GIS based map of micronutrients status in soil, fodder and feed.
- ✚ Nutrients indexing work is being taken up since 1999 selecting about 100 farmers in two agroecoregion to take into account of addition and removal of nutrients.
- ✚ Optimum dose of Sewage sludge for Marigold cultivation in alluvial soils of Varanasi has been established as 25t/ha
- ✚ Suitable extractants for Cd, Cr, & Ni has been identified
- ✚ Critical toxic concentration of Cd, Ni & Cr established for marigold in alluvial soils of Varanasi.
- ✚ Technology for utilization of sewage Sludge in rice –wheat system has been developed.
- ✚ i. GPS and GIS based soil fertility maps of Varanasi, Bhadohi, Mirzapur and Chandauli districts with respect to N, P, K, S, Fe, Cu, Mn, Zn and B have been prepared.
- ✚ ii. Technology for utilization of sewage Sludge in rice –wheat system has been developed. One time application of 45 t ha⁻¹ sewage sludge in rice can sustain the yield and profitability of rice-wheat system by applying only 50% dose of chemical fertilizers up to two cropping cycles (four crops).
- ✚ iii. It was found that neem coating of urea brought significant reduction (23%) in emission of N₂O gas from wheat field apart from increasing the yield of wheat (3.6%). In rice, neem coating of urea reduced CH₄ emission by 25%
- ✚ iv. Soil application of 10 mg Ni kg⁻¹ soil and foliar application of 0.2 % of Ni produced highest grain and straw yield of barley. The critical limit of Ni in barley shoot was found

to be 2.40 and 2.14 mg kg⁻¹ in graphical and statistical procedures, respectively. The critical level of Nin in soil was established as 0.22 mg kg⁻¹ 0.005M DTPA-CaCl₂ extractable.

- ✚ v. The best soil extractant to predict the availability of B in soils of Varanasi region was hot 0.01M CaCl₂ which had critical limit of 0.6 mg kg⁻¹ soil. The critical limit of B in mustard plant was 27.8 mg kg⁻¹. Application of 1.5 kg B ha⁻¹ along with RDF is recommended to enhance seed and oil yield of mustard grown in this region.

PARTICIPATION IN ORIENTATION AND REFRESSOR COURSE

1. Participated in orientation course at Academic Staff College, B.H.U., Varanasi from June16 to July 13, 1994.
2. Participated in summer school on “Use of isotopes and radiation in Soil Plant relationship” at NRL, IARI, New Delhi from April 15, to May14, 1998.
3. Participated in Summer school on “Remote sensing in agriculture with special emphasis on training the trainers” at IARI, New Delhi from April 05 to April 26, 1999.
4. Participated in training programme on “Computer training for the data storage and statistical analysis for agriculture research” at Math & Comp Sci Dept. GBPUA&T, Pantnagar during March 2-22, 2002.
5. Participated in training programme on “Computer education for university scientists” from August 14th to September 6th, 2002 organised by CABM, GBPUA&T, Pantnagar
6. Participated and successfully completed training course on “Extension Methodology” organised by C.C.S., H.A.U., Extension Education Institute, Nilokheri held at Directorate of Extension, G.B.P.U.A.&T, Pantnagar from 14 to 19 July,2003.
7. Participated and successfully completed “National training on multimedia presentation and E-Book designing” organized by Department of agricultural communication and Electronics & Commn. Engineering of GBPUA&T, Pantnagar during August 6-26,2003.
8. Participated in Patent Awareness Workshop held during 10-11 September,2003 organised by Patent Information Centre, GBPUA&T, Pantnagar.
9. Attended training on “Application of Quantitative Techniques in Indian Agriculture” held during March 9-13, 2004 organised by Department of Agricultural economics, G.B. Pant University of Agricultural & Technology, Pantnagar.
10. Attended teachers orientation programme held during Jan.7-8, 2005 organised by GBPUA&T Pantnagar
11. Attended UGC sponsored short term training course for Academic Administrators WEF 11.01.2010 to 19.01.2010 at ASC, BHU
12. Attended one day workshop on “Choice based credit system” organized by Quality Assurance cell, BHU dt.23.01.2010.
13. Attended Brain storming workshop on 14-17 Feb,2010 at BCKV, Kalyani, Invited by NTSTC, DST, GOI as resource person to prepare activity guide for National Children Science Congress 2010-11.

**PARTICIPATION IN SEMINAR/ CONFERENCE/
WORKSHOP/MEETINGS**

(I) NATIONAL -45

1. National Seminar on “Sulphur in Agriculture” at UAS, Bangalore, 7.9.1989 to 8.9.1989.
2. National Seminar on “Developments in Soil Science”, Indian Society of Soil Science, Dehradun, 8.10.1993 to 12.10.1993.
3. National Seminar on “Developments in Soil Science”, Indian Society of Soil Science, IARI, New Delhi, 28.11.1994 to 1.12.1994.
4. National Conference on “Environmental Degradation and Restoration”, Govt. Raza (PG) College, Rampur, 2000.
5. National Conference on “Environmental Pollution Prevention and Control for Healthy Living”, New Delhi, 21.11.2000 to 22.11.2000.
6. National Seminar on “Developments in Soil Science”, Indian Society of Soil Science, Nagpur, 27.12.2000 to 30.12.2000.
7. Annual workshop of AICRP- micronutrients OAU, Bhubneshwar, June-2001
8. National symposium on “Farming system research in new millennium” Cropping System Institute, Modipuram, Meerut, Oct.15-17, 2001.
9. National Seminar on “Developments in Soil Science”, Indian Society of Soil Science, RAU, Udaipur 30.10.2021 to 3.11.2021.
10. National Seminar on “Developments in Soil Science”, Indian Society of Soil Science, NKV, Jabalpur Nov, 11-15, 2002
11. National Conference “Soil – Elixir of Life” TIET, Patiala Feb, 26-27, 2003
12. Attended 68 annual convention of Indian Society of Soil science held at C.S. Azad University of Agril and Technology, Kanpur during Nov 4-8, 2003.
13. Participated in brain storming workshop organized by State Science Education Center, Allahabad to revise the syllabus and writing of agricultural science text books of U.P. board for class 6.7 and 8 held during 6-8th August, 2004 at Allahabad.
14. Participated and presented a papers in 69th annual convention of Indian Society of Soil Science held during Oct. 27- 30, 2004 at, ANGRUA&T Hyderabad
15. Participated and presented a papers in 70th annual convention of Indian Society of Soil Science held during Sept 28- Oct 1, 2005 at, TNAU, Coimbatore.
16. Participated and presented a papers in National Conference on “Value Added Agricultural Education” held during October 21- 22, 2005 at, GBPUA&T, Pantnagar
17. Participated and presented a papers in 8th Agricultural Scientists and farmers congress held during February 21-22, 2006 at, B.H.U., Varanasi

18. Attended workshop of the project IWNM in Litchi under HTM and presented progress report of soil science section on 23.05.2006 at VPKAS, Almora.
19. Attended workshop on Strategies for Agriculture Renewal Year of Uttaranchal held during May 10-12,2006 at GBPUA&T, Pantnagar.
20. Attended workshop of “AICRP on micro, secondary nutrients and pollutant elements in soils and plants” held during September 16-19,2006 at RAU, Pusa.
21. Attended Platinum Jubilee alumni meet and national seminar of AABHA held during January 5-6,2008 at B.H.U., Varanasi.
22. Participated in FAI Annual seminar on Fertilizer security – A prerequisite for food security. held during 4-6 December,2008 at New Delhi.
23. Participated and delivered Sushila Bala De Memorial lecture in Symposium on “Water and fertilizer Management: Present day Chemical agriculture in India” held during 40 & 41st joint annual convention of ISAC, at BAU, Ranchi during December 12-13, 2008.
24. Attended 42nd Annual convention of Indian society of Agricultural Chemists and National symposium on “Maintenance of soil health and food security” Nov.27-28,2009 at Bidhan Chandra Krishi Viswavidyalaya, Mohanpur. And presented invited lecture on “Impact of sewage sludge application on crop production and soil health”.
25. Attended platinum jubilee annual convention of Indian society of Soil Science, New Delhi, Dec 22-25,2009 and presented paper.
26. Attended Workshop for Academic Administrators organized by ASC, BHU wef 11.01.2010-18.01.2010.
27. Attended 43rd ACISAC and national Conference on “Soil management for achieving food security and nutritional safety under normal and intensified agroecosystem” held during Nov.01-02,2010 at BHU, Varanasi
28. Attended Alumni meet and National Conference held at BHU Dec,2010.
29. Attended National Workshop of GPS and GIS Project organized by IISS, Bhopal during July 30-31st,2011
30. Attended 44th Annual Convention of ISAC & National Symposium on “Balanced Fertilizer to Sustainable Soil Health, Crop Production and Food Security” Organised by Dept. Soil Science, GBPUA&T, Pantnagar during Nov 25-26,2011.
31. Attended and presented research paper entitled “Current trends of micronutrients deficiency in eastern UP” in 77th Annual convention of Indian Society of Soil Science and National Seminar on ‘Developments in Soil Science-2012, held during Dec 3-6,2012, Punjab Agricultural University, Ludhiana.
32. Attended workshop cum training on GPS & GIS based soil fertility maps for precise fertilizer recommendation to the farmers of the country held during April 11-12,2013 at IISS, Bhopal sponsored by MOS, New Delhi
33. Attended workshop on “Assessing Technology for Fostering Innovation” held during May-15-17,2013 at Chennai, organized by Society for Technology Management (STEM) Hyderabad.
34. Attended 78th annual convention & Seminar of Indian Society of Soil Science and presented (Oral) a paper entitled “Effect of sewage sludge on yields, heavy metals contents and soil fertility under a rice – wheat system”, held during Oct 23-26,2013 at Central Arid Zone Research Institute, Jodhpur (Rajasthan).

35. Attended 79th Annual convention of ISSS held during Nov 24-27, 2014 organised by PJTSAU in collaboration with ANGRAU, Hyderabad and presented (Oral) research paper
36. Attended 80th Annual convention of ISSS held during Dec.5-8, 2014 organised by UAS, GKVK campus Bengaluru and presented (Oral) research paper entitled "Establishment of critical limit of boron in soil and plant for predicting response of mustard to boron application in Inceptisols of Varanasi."
37. Attended workshop on "DST knowledge network on climate change & Agriculture" organised by DST, ICAR, at NASC, New Delhi during April 28-29, 2016.
38. Attended 81st Annual convention and national Seminar of ISSS held at RMS KVV, Gwalior during 20-23 October, 2016 and presented a paper.
39. Attended workshop on climate change during 18-19 May, 2017 organised by IESD, BHU, at BHU Varanasi.
40. Attended two days workshop on "Doing MOOCs with mooKIT" organized by Indian Institute of Technology (BHU) Varanasi during September 22-23, 2007, at IIT(BHU) Varanasi.
41. Attended 82th Annual convention of ISSS held during Dec.11-14, 2017 organised by NBSSLU&P, Kolkata and presented (Oral) research paper entitled "Efficiency of different strategies of Zn application for correction of Zn deficiency and its biofortification in hybrid rice."
42. Attended National Seminar on **"Water and soil management approaches for climate smart agriculture"** held during March 23-24, 2018 at Institute of Agricultural Sciences, BHU.
43. Attended National Seminar on "Development in Soil Science" held during 27-30 Nov. 2018 during 83rd Annual Convention of ISSS at Anand Agricultural University, Anand and presented paper in Oral session on Assessing a suitable extractant and critical limits of Nickel in soil and plant for predicting the response of barley.
44. Attended National Seminar "Soil and Civilization" held on 5.12.2018 at Institute of Agricultural Sciences, BHU. Varanasi
45. Attended National Seminar on "Development in Soil Science" held during 15-18 Nov. 2019 during 84rd Annual Convention of ISSS at Banaras Hindu University, Varanasi and presented paper on "Residual effect of nickel on growth and yield of cowpea and its effect on the nitrogen utilization on the plants."
46. Attended first International Conference (Virtual Mode) entitled "Recent advances for managing sustainable soil health and crop production" Organised by Gramin Krishi Vikash Society (GKVS), Agra during 18-20.02.2022.

(II) INTERNATIONAL Conference/Workshop/Meeting-20

1. International Conference on *"Contaminants in Soil Environment in Australasia-Pacific Regions"* New Delhi, India, 1999.
2. International Conference on *"Managing Natural Resources for Sustainable Agricultural Production in 21st Century"* New Delhi, India, 2000.

3. International Conference on “*Soil, Water and Environmental quality-Issues and Strategies*” Jan 28-Feb1, New Delhi, India,2005.
4. Attended 3rd International BHU Alumni meet and International seminar on “*Education in 21st century and Mahatma’s Vision*” held during January 6-7,2007 at BHU, Varanasi
5. Attended 4th International Alumini meet of BHU during Dec 25-27,2009 at BHU, Varanasi.
6. Attended International BHU alumini meet and seminar on “Mahamanas vision on national building” during 23-24 December,2012 at BHU, Varanasi
7. Attended 50 year of International Programs, College of Agriculture and Life Sciences (IP CAL) Cornell University, held on 17th August ,2013at Hotel Radisson Blue, New Delhi.
8. Attended Meeting of USAID-AIP and presented progress report held on 18th August,2013 at Hotel Radisson Blue, New Delhi.
9. Attended Borlaug Global Rust Initiative (BGRI) 2013 Technical Workshop held in New Delhi, India from 19th August to 22nd August 2013
10. Attended Harvest Plus International Wheat Group Meeting and participated in panel discussion held during 23-24 August,2013 at The Oberoi Hotel, New Delhi.
11. Participated in USAID_AIP Indo-US collaborative workshop on “Innovation in Agricultural Education and Extension System: Outcomes and Lesson Learned” during January 20-21,15Hotel Radisson, New Delhi and presented a poster on “Nutrient Management for Improving Soil Quality and Sustaining Productivity of Rice –wheat Cropping System”
12. Attended meeting to review and plan activities on Rice Wheat Crop Manager (RWCM) under collaborative project with BHU under IRRI through CSISA project held at Patna from 23-25 March,2015
13. Attended International BHU Alumini Meet (IBAM 2015) held during November 23-24,2015 at BHU, Varanasi.
14. Attended “**14th International conference the Biogeochemistry of Trace Elements**” held during 16.07.2017 to 20.07.2017 ETH, **Zurich, Switzerland**. Paper presented on “Bio avalaibility of heavy metals (Cd, Cr, Ni, Pb) to french marigold (*Tagetes patula*) in relation to soil properties”
15. Attended “**International conference on “Novel application of Biotechnology in Agriculture Sector-Towards achieving sustainable develement goal-2018**” held during March 20-21’2018 and presented paper on “Impact of neem coated urea on N20 emission, grain yeild and biomass production of wheat in an Inceptisols of eatern Uttar Pradesh”at Institute of Agricultural Sciences. BHU.
16. Attended “**4th International Conference on Contaminated Land, Ecological Assessment and Remediation 2018 (CLEAR-2018)** held during **16.08.2018 to 18.08.2018** at Hong Kong Polytechnic University in **Hong Kong** and presented my research paper on “**Heavy Metals Accumulation in Post Harvest Soil of Rice and Wheat with**

Conjoint Application of Sewage Sludge and Fertilizers" in ***oral session*** of the conference.

17. Attended International Alumni Meet and Seminar on "Global Partnership in Agriculture Education" held during Dec.22-24,2018 at IAS, BHU, Varanasi.
18. Attended ***"3rd International Conference on Plant Science and Research-2021*** held during ***10.05.2021 to 11.05.2021*** Vitrual (***Organised by US based United Scientific group-a non profit organization***) and presented my research paper on ***"A Comparative Study of Soil and Foliar Nickel Application on Growth, Yield and Nutritional Quality of Barley (Hordeum vulgare L.) Grown in Inceptisol "*** in ***Poster session*** of the conference.
19. Attended ***"3rd International Conference on Advances in Civil and Ecological Engineering Research (ACEER 2021)*** held online during ***27.07.2021 to 30.07.2021*** organised by ***I-Shou University, Beiging, China*** and presented my research paper on ***"Foliar fertilization of nickel affects growth, yield component and micronutrient status of barley (Hordeum vulgare L.) grown on low nickel soil"*** in ***Oral session*** of the conference.
20. Participated in brain storming Session on ***"Climate Smart Management in Rice based systems of India; Key learning, research gaps and way forward for collaborative research"*** Jointly organised by IRRI and ICAR-IIRR in online mode on 27.07.2021.

LIST OF PUBLICATIONS

PUBLISHED

A. Laboratory Manual-03

1. *Soil fertility, fertilizer and Integrated nutrients management* (2005) R. A. Gupta, Sobaran Singh, Sri Ram and S.K. Singh, College of Agriculture, GBPUA&T, Pantnagar
2. *A Practical Manual on Conservation and Management of Soil and Water Resources* (2010) Sobaran Singh, S.K. Singh and H.N Singh College of Agriculture, GBPUA&T, Pantnagar
3. *Soil Analysis: An Interpretation Manual* (2022) Jatav.S.S., Satyanarayana, E., Patra, A., Singh, S. K., Thallapally, S., Mohapatra, K. K., and Luthra, N. Jaya Publishing House, New Delhi.PP-150.

B. Technical Bulletin-03

1. Singh, P.K., Singh, S. K., Lal, R.L. and Narendra Singh (2007) Prospects and Strategies for Quality Litchi Production in Uttaranchal, Tech. Bulletin MM-1, IWNM-1, G.B.P.U. A & T, Pantnagar.pp 45.
2. Mishra, V.K., Ramesh, Chand, Saket Kushwaha, Singh, S.K. Srivastava C.P. Mishra, G.C. and Kamalvansi V. (2012) Ravi Ke Pramukh Fasalon Ka Beej Utpadan (ISSN0976-4931) Technical Bulletin sponsored by MOA, GOI, NewDelhi under Seed Village Project Published by Progressive Science Society, Varanasi
3. Mishra, V.K., Ramesh, Chand, Saket Kushwaha, Singh, S.K. Srivastava C.P. Mishra, G.C. and Kamalvansi V. (2012) Kharif Ki Pramukh Fasalon Ka Beej Utpadan (ISSN0976-4931) Technical Bulletin sponsored by MOA, GOI, NewDelhi under Seed Village Project Published by Progressive Science Society, Varanasi

C. Books-12

1. *Byoharic Mrida Parikshan evam Urvarak Prabandhan* 2003 by Shriram and S.K. Singh. Directorate of Publication, G.B. Pant University of Agriculture & Tech. Pantnagar (Sponsored by CSIR, New Delhi). ISBN:81-86415-55-6.PP:105.
2. *Krishi Vigyan-class-6*, Dr, Dharm Raj Singh, Dr. Satish Kumar Singh, Dr. K Trivedi, Dr.K.S. Shukla, Dr.A.R. Singh, Dr. L.S. Nirankari, Dr.S.P. Verma, R.L. Pal, Dr.R.A. AwasthiS.K.VearmaR.P.S. Tomar Published By: Primary Education Councilal, Allahabad, UP-(2005). F78505008448.PP.68.
3. *Krishi Vigyan-class-7* Dr. Dharm Raj Singh, Dr. Satish Kumar Singh, Dr. K Trivedi, Dr.K.S. Shukla, Dr.A.R. Singh, Dr. L.S. Nirankari, Dr.S.P. Verma, R.L. Pal, Dr.R.A. AwasthiS.K.VearmaR.P.S. Tomar Published By: Primary Education Councilal, Allahabad, UP-(2005). F78531021870.PP.68.
4. *Krishi Vigyan-class-8*, Dr. Dharm Raj Singh, Dr. Satish Kumar Singh, Dr. K Trivedi, Dr.K.S. Shukla, Dr.A.R. Singh, Dr. L.S. Nirankari, Dr.S.P. Verma, R.L. Pal, Dr.R.A. AwasthiS.K.VearmaR.P.S. Tomar Published By: Primary Education Councilal, Allahabad, UP-(2005). F78542 020002.PP.86.
5. *Management of Soil quality for sustainable agriculture* Editors: B. Mishra, R. Chandra and S.K. Singh-(2007) ; Satish Serial Publishing House ,New Delhi.ISBN:81-89304-34-8.PP.431.
6. *Fundamentals and Management of Soil Quality*: R. Chandra & S.K. Singh (2009): Publisher: Westville Publishing House, New Delhi.ISBN:978-81-85873-48-0.PP.380.
7. *Essentials of Soil Science*, Suresh Kumar and S.K. Singh, Brillion Publishing, New Delhi. (2017).ISBN:978-8193-222-64-5.PP.291.
8. *Mrida Swasthya Prabandhan and Mahatav* (2018) S. K. Singh and Omkar Kumar,; Satish Serial Publishing House, New Delhi.ISBN:978-93-86200-29-7(PB).PP.308.
9. *Soil Analysis: A Practical Book* (2019) Singh, S.K.et al.eds Indian Society of Soil Science, New Delhi.ISBN:81-903797-8-X.PP.621
10. *Sustainable Soil Fertility Management* (2021) by Jatav, H.S., Singh, S.K., Rajput, V.D. and Tatiana Minkina (editors). NOVA Science Publishers Inc., New York.ISBN:978-1-53619-199-8(ebook)

11. Soil Science-Fundamentals to Recent Advances (2021) Rakshit, A., Singh, S.K., Abhilash, P.C. and Biswas, Asim, B.(editors). Springer Nature, Singapore Pte.Ltd.. P-902: eBook ISBN:978-981-16-0917-6. DOI 10.1007/978-981-16-0917-6
12. Sustainable Management and Utilization of Sewage Sludge (2022) Rajput, V. D., Yadav, A. N., Jatav, H.S., Singh, S.K. and Minkina, T. (Editors) Springer. P:403. ISBN 978-3-030-85225-2 ISBN 978-3-030-85226-9 (eBook) <https://doi.org/10.1007/978-3-030-85226-9>

D. Book Chapters-22

1. Singh, S.K, Sharma, R.K., Surendra Singh and Srivastava, P.C. (2000). A study on industrial effluents and bioaccumulation of heavy metals as influenced by irrigation in Sikandarabad industrial region. In *62 Reutilization of Industrial Effluents and Waste*. Pragati Prakashan, Meerut, India. pp. 62-67. ISBN: 978-83-5006-099-5
2. Srivastava, P.C., Prasant Srivastava, Singh, S.K. and Gangwar, M.S. (2000) Utilization of Coal Fly Ash; A Solid Waste from Thermal Power Station; in Agriculture and its Effects on Soil properties and Crop Yields. In: R.K. Baslas and A.K. Srivastava(ed) *Reutilization of Industrial Effluents and Waste*. Pragati Prakashan, Meerut, India, pp123-131. ISBN: 978-83-5006-099-5
3. Singh, S. K. (2007) Soil Quality: An Overview. In: *Management of Soil quality for sustainable agriculture*. Satish Serial Publishing House, Delhi, pp.17-25. ISBN: 9788189304348
4. Singh, S. K. and Srivastava, P.C. (2007) Determination of Heavy Metals for Assessment of soil quality. In *Management of Soil quality for sustainable agriculture*. Satish Serial Publishing House, Delhi, pp.379-383. ISBN: 9788189304348
5. Singh, S.K. and Ghosh, A. K. (2009) Soil Quality: A General Review (In Fundamentals and Management of Soil Quality Ed. R. Chandra and S.K. Singh) :pp 1-15. ISBN: 10: 9788185878
6. Surendra Singh, S.K. Singh and A.K. Ghosh (2015) Soil and Water resources management in central and eastern regions of Uttar Pradesh (In Management of soil and water resources for sustainable agricultural production Ed. Ashim Kumar Sarkar) Agrotech Publishing Agency, Udaipur. pp.303-348.
7. Rajib Karmakar, Indranil Das, Sukanta Chakraborty, Amitava Rakshit and S.K. Singh (2015) Chemical and Structural Classification of Minerals (In Principles of Soil Science by Amitava Rakshit, Prfiyanksr Raha and Prataphandu Singh Bhadoria) Kalyani Publishers, New Delhi. pp.1-51. ISBN: 10: 9327251180
8. Singh, S.K. and Chandran, P. (2015) Soil Genesis and Classification {In R.K. Rattan et al. (ed.) *Soil Science-An Introduction*, Indian Society of Soil Science, New Delhi. PP.57-96. Nov.15 ISBN: 10: 8190379771

9. Singh, S.K. and Latore, A.M. (2019) Determination of Soil Reaction(pH), Soluble salts (EC) and Redox Potential (Eh) of Soil, (In S.K. Singh et al.(ed.) *Soil Analysis*. Indian Society of Soil Science, New Delhi.PP.12-37. ISBN:81-903797-7-1. ISBN: 81-903797-8-X
10. Singh, A.P., Singh, S.K., Sumit Rai and maneesh Kumar (2020) Soil Carbon Dynamics in Relation to Soil Surface Management and Cropping System. In P.K. Ghosh. et al.(ed) *Carbon Management in Tropical and Subtropical Terrestrial System* PP.159-172. Springer Nature Singapore Ltd. ISBN: 978-981-13-9628-1
11. Jatav, H.S. Singh, S.K., Jatav, S.S., Rajput, V.D., Parihar, M., Mahawe Singhal, R.K. and Sukirtee (2020) **Importance of Biochar in Agriculture and Its Consequence**. In A. A. Abdelhafez and M.H.H. Abbas(eds) *Applications of Biochar for Environmental Safety* Page, PP.94-109. (ISBN 978-1-78985-895-2)", Intechopen Limited ,London, United Kingdom. <http://dx.doi.org/10.5772/intechopen.87828>. **P-241**.
12. Jatav, H.S., Singh, S.K., Gautam, M.K., Khan, M., Kumar, S., Rajput, V.D., Khan, M.A., Jat, L.K., Parihar, M., Khatik, C.L., Jatav, G.K., Jatav, S.S., Chandra, K. and Parewa, H.P. (2020) **Zinc Solubilization and Mobilization: A Promising Approach for Cereals Biofortification**. PP.22-41. In A.N. Yadav et al.(eds) *Advances in Plant Microbiome and Sustainable Agriculture*, Microorganisms for Sustainability 20, (ISBN 978-981-15-3203-0) Springer Nature Singapore Pte Ltd. 2020. https://doi.org/10.1007/978-981-15-3204-7_3. **P.259**.
13. Jatav, H.S., Sharma, L.D., Sadhukhan, R., Singh, S.K., Singh, S., Rajput, V.D., Parihar, M., Jatav, S.S., Jinger, D., Kumar, S. and Sukirtee (2020) **An over view of Micronutrients: Prospects and Implication in Crop Production**. PP.1-30. In T. Aftab and K.R Hakeem(eds) *Plant Micronutrients: Deficiency and Toxicity Management* (ISBN 978-3-030-49855-9) PP.1-455. Springer Nature, Switzerland. https://doi.org/10.1007/978-3-030-49856-6_1. **P.455**.
14. Pratibha Singh, Rakesh Sammauria, Mahendra Singh, Singh, S.K. Jatav, H.S., Mehjabeen, Yadav, M.R. and Dwivedi, A.K. (Feb 2021) **Rhizobia: A Potent Tool for Amelioration of Drought Stress in Legumes**. PP.421-439. In T. Aftab and K.R Hakeem(eds) *Plant Growth Regulators: signaling under stress conditions* (ISBN 978-3-030-61152-1) PP.1-455. Springer Nature, Switzerland. AG. https://doi.org/10.1007/978-3-030-61153-8_19. **P.483**.
15. Patra, A., Jatav, H.S., Mohapatra, K.K., Kundu, A. Singh, S.K., Kumar, V., Sharma, L.D. and Anjum, M. (2021) **Plant-Soil Interaction in a Changing World: A Climate Change Perspective**. PP.1-22. In T. Aftab and K.R Hakeem(eds) *Frontiers in Plant-Soil Interaction* (ISBN: 978-0-323-90943-3) P-617. Elsevier.
16. Datta, A., Patra, A., Jatav, H.S., Jatav, S.S., Singh, S.K., Sathyanarayana, E., Verma, S. and Singh, P. (2020) **Toxicity of Cadmium in Soil-Plant-Human Continuum and Its Bioremediation Techniques**. In M. L. Larramendy and Sonia Solonesky (ed.) *Soil Contamination - Threats and Sustainable Solutions* .PP.59-80. Intech Open. London, United Kingdom. Print ISBN 978-1-83880-753-5.
17. Sudhukhan, R., Jatav, H.S., Sen, S., Sharma, L.D., Rajput, V.D., Thangjam, R., Devedee, A.K., Singh, S.K., Gorovtsov, A., Choudhury, S. and Patra, K. (2021) **Biological**

- Nitrogen Inhibition for Sustainable Crop Production.** (In.....ed. Plant Pererspective to Global Climate Change).PP.....Pub:Elsevier.
- 18.Rekwar, R.K., Patra, A., Jatav, H.S., Singh, S.K., Mohapatra, K.K., Kundu, A., Datta, A., Trivedi, A. Sharma, L.D., Anjum, M., Anil, A.S., and Sahoo, S.K. (2021) Ecological aspects of the soil-water- plant-atmosphere system. In Tariq Aftab and Aryadeep Roychoudhury (eds) Plant Pererspective to Global Climate Changes. Elsevier Inc.UK: PP:279-298. ISBN 978-0-323-85665-2
 - 19.Jatav, S.S., Pareihar, M., Patra, A., Singh, S. K., Chitra, M. K., Mohapatra, K. K. and Rana, K. (2021) **Soil Microbes in Plant Growth Promotion and for Mitigation of Abiotic Stress of Drought.**In A.N. Yadav(ed.) *Soil Microbiomes for Sustainable Agriculture, Sustainable Development and Biodiversity*.PP.175-201. https://doi.org/10.1007/978-3-030-73507-4_7 . © Springer Nature Switzerland AG 2021
 - 20.Edfrisi. S.A., Rakshir, A., Dubey, P.K., Abhilash, P.C., Singh, S.K., Patra, A.K. and Pathak, H. (2021) Managing Soil Resourse for Human Health and Environmental Sustainability. InA.Rakshit et al. (eds.), *Soil Science: Fundamentals to Recent Advances*.Springer Nature Singapore Pte Ltd.PP.3-12.
 - 21.Singh, S. K., Patra, A., Verma, Y. Chattopadhyay, A. Rakshit, A. and Suresh Kumar (2021) Potential and Risk of Nanotechnology Application in Agriculture vis-à-vis Nanom micronutrient Fertilizers. InA.Rakshit et al. (eds.), *Soil Science: Fundamentals to Recent Advances*.Springer Nature Singapore Pte Ltd. PP.513-552.
 22. Singh.S.K., Astha Pandey, Ayush Bahugun, Mohapatra, K.K., Abhik Patra, Eetela Sathyanarayana, Jatav, H.S., Jatav, S.S. and Rajput, V.D. (2022 Feb) Current State of Knowledge in Diagnosis and Mitigation of Micronutrients Deficiency in Crop Production in Indian Prospective. In book: *Ecosystem Services: Types, Management and Benefits*. H.S. Jatav (eds) ISBN: 978-1-68507-614-6 © 2022 Nova Science Publishers, Inc.

E. Conference Proceeding

- 9.Singh.S.K.(2023) Micronutrients Scenario of Indian Soils vis –a vis Plant and Human Health. Souvneer, International Conference on Ecological Pererspective of Agricultural and Biological Sciences organised by KNIPSS, Sultanpur, UP during 20-22 May,2023 pp15-16.
- 8.Garima Shukla, Mishra, G.C. and Singh, S.K. (2016) Comparison of spatial prediction methods for Zn and Fe. Proceeding of 10th India Com;INDIA Com-2016;IEEE Conf ID.37465:2016 3rd International Conference on “Computing for sustainable Global Development”,16-18 March,BVICAM,New DelhiPP.2533-2536.. (**Impact Factor:** 1.32).
- 7.Jatav, H. S., Singh, S.K., Omkar Kumar and Ayesha Parveen (2014) Biochar: A tool for improving Soil Quality and Crop Productivity.Proceeding of the National Seminar on

“Indian Agriculture and Rural Development in Changing Global Scenario” organized by KVK, BHU, Barkachha, Mirzapur on 7.02.2014. ISBN 978-81-926935-6-9.

6. Singh, P.K., Singh, S.K., Singh, N, Lal, R.L. and Ganga Joshi (2011) Nutritional status of Litchi Orchards of Uttarakhand. Proceeding of National Workshop cum Seminar on Relevance of Plasticulture application in Litchi production. GBPUA &T, Pantnagar.55-62
5. Singh, S.K., Singh, P.K., Ganga Joshi and Surendra Singh (2011) Nutrients Management options for increasing productivity of litchi orchards. Proceeding of National Workshop cum Seminar on Relevance of Plasticulture application in Litchi Production. GBPUA&T, Pantnagar.41-54.
4. Sanjay Sachan, Singh, S.K. and Ghosh, A.K. (2011) Heavy Metals Contamination of Ground Water through Industrial Effluent Irrigation –A Case Study. Proceeding of National Conference on Ground water for Drinking: Issues and Options: February 11-13, Department of Civil Engineering, Institute of Technology, BHU, Varanasi:117-123.
3. Geeta Kandpal, Bali Ram, P.C. Srivastava, S.K. Singh and U.P. Shahi (2003) Chemical Transformation of Zn in soils Polluted by Inorganic Salts and city Sludge. Proc. XII National Symposium on Environment, June 2003, pp 265-271.
2. Singh, S. K., Surendra Singh & Sharma, R. K. (2000) Heavy metal accumulation in Soil-Plant system: Possible hazard to public health. Full Paper Proc. Nat.Conf “Environmental pollution prevention and control for healthy leaving” New Delhi.
1. Singh, S.K., Prasad, A.N., Singh, S., & Singh, B. (1989). Economic appraisal of Iron Pyrites as a source of Sulphur fertilizer in Gram. Full paper Proc. Nat. Seminar on “Sulphur in agriculture” Bangalore, pp 147-153.

F. Total Research Papers -151

(A) International Journal -38

{with SCI -Impact Factor (IF)}

38. Khan, S. R., Rastogi, N., and Singh, S. K. (2023). Bio-transfer and bioaccumulation patterns of heavy metals in mine site-inhabiting ants and grasshoppers, across mine site restoration chronosequence. *Ecotoxicology*, 1-16. <https://doi.org/10.1007/s10646-023-02676-1> **(IF-2.935/NAAS-8.94). (Q)**
37. Poudel, A., Singh, S. K., Jiménez-Ballesta, R., Jatav, S. S., Patra, A., & Pandey, A. (2023). Effect of Nano-Phosphorus Formulation on Growth, Yield and Nutritional Quality of Wheat under Semi-Arid Climate. *Agronomy*, 13(3), 768. doi.org/10.3390/agronomy13030768 **(IF-3.94/NAAS-9.94).**
36. Goswami, S., Singh, S. K., Patra, A., Dutta, A., & Mohapatra, K. K. (2022). Residual Effects of Nickel and Its Interaction with Applied Zinc and NPK Improve the Growth, Yield, and Nutritional Quality of Cowpea and Urease Activity of Soil Grown in Vertisols. *Journal of Soil Science and Plant Nutrition*, 22(4), 4262-4272. <https://doi.org/10.1007/s42729-022-01024-2>. **(IF-3.573/NAAS-9.573) (Q.1).**
35. Mohapatra, K.K., Singh, S.K., Patra, A., Jatav, S.S., Rajpur, V.D. Popova, V., Puzikova, O., Nazarenko, O. and Svetlana Sushkova (2022) Biogeoaccumulation of

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1. Mishra, V.K., Ramesh Chand, Shaket Kushwaha, **Singh, S.K.** and Srivastava, C.P. (2012) *Ravi Ke Pramukh Fasal: **Sarson** Ka Beej Utpadan* (ISSN0976-4931) sponsored by MOA, GOI, NewDelhi under Seed Village Project Published by Progressive Science Society, Varanasi-2012
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I.RADIO TALK-12

1. A Radio talk on ***“Mrida Namuna Akatra Karane Ki Vagyanic Bidhi”*** on 16.03.2011
2. Recorded radio talk on 15.07.2011 entitled: ***“Mrida Pradushan: Bachao Ke Upai”*** Broadcast: 20.07.2011 AIR, Varanasi
3. Recorded radio Talk by AIR, Varanasi on 01.12.2011 ***“Mrida me kshum Poshak Tatwo ki Aapurti”***.
4. Recorded radio talk entitled ***“Mrida Urvarta star evam kshum poshak tatvon ka prayog”*** by Gyan Vani, BHU on 11.09.2014.
5. Recorded radio Talk on 22.8.2017 entitled ***“Mitti me Kshum Poshak Tatwo Ki Kami aur ushek lakshan”*** Broadcast: 02.09.2017 by AIR, Varanasi.
6. Live radio talk entitled ***“Soil Testing and its needs”*** on 06.10.2017 along with question and answer session under Yuvani Programme of All India Radio, Varanasi.
7. Recorded Radio talk by AIR, Varanasi on 2.2.2018 (Broadcast: 3.2.32018) on ***“Vartman Men Mitti Ki Dasa evam Disa”***

8. Recorded a Radio talk by AIR, Varanasi on 29.6.2018 (Broadcast on : 8.7.2018) **“Micronutrients deficiency in soil with special reference to Zinc”**
9. Recorded Radio talk by AIR, Varanasi on 11.12.2018 (Broadcast:.....) on **“Mrida ko Kheti liak Kaise Banai”**
10. Recorded Radio talk by AIR, Varanasi on “Use of Biofertilizers in Pulses” which on 14.05.2019.
11. Recorded Radio talk by AIR, Varanasi on “Soil Management for increasing Crop productivity” which was broadcasted on the occasion of World Soil Day on 05.12.2019.
12. Radio talk entitle “Micronutrients in soil and its importance (in hindi) was recorded and broadcasted on 16.12.2022 by All India Radio Varanasi.
13. Radio talk entitle “Fasalon me Poshak Tatown Ki Kami Lakshan (in hindi) was recorded on 09.8.2023 and broadcasted on 16.12.2022 by All India Radio Varanasi.

J. TELEVISION TALK-26

1. Door Darshan Telecast on **“Detection of Adultration in fertilizers”** 03-06-2009 at 6.0 PM. (Q-Ans)
2. Door Darshan Telecast on **“Fertilizer management in rice”** 29-06-2009 at 6.0 PM. (Q-Ans)
3. Telecast of Door Darshan Programme on **“Micronutrients management after transplanting”** on 20.07.2009
4. Telecast of Door Darshan Programme in Krishi Darshan on DD National on 30.10.2009.
5. Telecast of Door Darshan Programme in Krishi Darshan on DD National on 14.10.2009.
6. Recorded Door Darshan Kisan Gosthi programme on 07.02.2010 at Chunar, Mirzapur, Telecast on: 22.02.2010
7. A Door Darshan Programme was recorded on 10.02.2010 on **Resource conservation technology**.
8. Door Darshan Programm Kisan Gosthi recorded on 9.6.2010 on **“Fertilizer management in rice wheat cropping syatem**.
9. Kharif Kisan Gosthi on 27.06.2011 Village: Nimaich, Varanasi Telecast: 12&13.07.2011
10. Door Darshan Programme recorded on 3.10.2010 on **Improved cultivation of wheat” Kisan Gosthi** tel 27.10.2010
11. Door Darshan Programme recorded on 9.11.2010 on **“Management of micronutrients in Ravi crops**.
12. Door Darshan Programme recorded on 19.12.2010 on **“Management of fertilizers in standing wheat crop”**.
13. Door Darshan Programme (**Kisan Gosthi**) recorded on 27.02.2011 on **“Garmiaon me Mrida Ka Prabandh”** Village –Paniyra
14. Door Darshan Programme (**Kisan Gosthi**) recorded on 17.04.2011 on **“Urverkon me milavat ki Pachahan”** Village –Nimaich, Varanasi Tel-18-19, May, 2011.
15. Recorded by Door Darshan on 14.10.2011 on **“Balance fertilizer use in Ravi crops”**
16. Recorded Door Darshan Programme on **“Fertilizer Management in Kharif Crops”** Telecast on 05.06.2012
17. A Door Darshan Talk was recorded on 17.08.2012 on **“Fertilizer Management Under Drought Conditions”**.
18. ATV talk was recorded by Door Darsan Varanasi on **“Fertilizer management in late sown wheat crop”** and broadcast on 07.12.2012.

19. A TV talk was recorded on 01.03.13 by Door Darsan Varanasi on “Soil management in summer” and broadcast on 12.03.13
20. A TV talk was recorded on 28.05.2013 by Door Darsan Varanasi on “**Fertilizer recommendation for rice and identification of impurities in fertilizers**” and broadcast on 17.06.2013
21. Recorded Door Darshan Talk on “**Balanced Fertilizer application in Wheat**” on 09.10.2013.
22. Recorded Door Darshan Talk on “Soil **Preparation during Summer for higher productivity**” on 07.03.2014.
23. Recorded Door Darshan Talk on “**Balanced Fertilizer in Rice**” on 09.05.2014.2013.
24. Recording of **Kisan Gosthi** by Door Darshan on 16.08.2014 (Broadcast-10.09.2014)
25. Recording by India News Channel on “**Utilization of flood deposited soils on Ghats**” on 03.09.2014
26. Recorded Door Darshan Talk on “**Preparation of soil in summer for improving moisture and nutrients availability**”. On 12.05.2015 Telecast on 19.05.2015.

Numerology of Publications

Name of Publication	Number
M Sc. (Ag) students guided	31
Ph.D. students guided	11
TV-Talk	26
Radio talk	13
Books	12
Original Research paper	151(38 Intl. and 113 National)
Book Chapters	21
Technical Bulletin	03
Laboratory Manual	03
Popular Articles	39
Conference/ Symposium abstract	51
Extension Folders	19
Memorial Lecture	03
Invited Lecture	27
Conference/ Symposium Proceeding	09
Total	GT=303

		
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(Satish Kumar Singh)