

**A. Academic Qualification:** PhD Soil Science & Agricultural Chemistry, qualified NET

**Medals/Awards:**

**Number of medals/awards received by academic achievements:**

1. Merit Scholarship during M.Sc. and Ph.D. from SKUAST-Jammu, J&K, India
2. Selected for Interaction meeting with President of India Dr. A.P.J. Abdul Kalam and Nobel laureates of the world for motivation of youth in science held on February 8, 2007 at Vigyan Bhawan, New Delhi, India.
3. International travel Fellowship: 02
4. Received Appreciation Letter from SKUAST-Jammu
5. Appreciation Letter from Directorate of Agriculture Production and Farmers Welfare Department Jammu
6. Received Appreciation Awards: 05
7. Best oral presentation award: 05

**B. Details of Publications & Trainings attended:**

<b>Research papers:</b>	<b>16</b>
<b>Abstracts:</b>	<b>32</b>
<b>National:</b>	<b>29</b>
<b>International:</b>	<b>03</b>
<b>Compendium:</b>	<b>06</b>
<b>Review Reports:</b>	<b>15</b>
<b>Books:</b>	<b>04</b>
<b>Book Chapter:</b>	<b>19</b>
<b>Popular articles:</b>	<b>06</b>
<b>Technical Bulletins:</b>	<b>02</b>
<b>Trainings attended</b>	
<b>National:</b>	<b>09</b>
<b>International:</b>	<b>01</b>
<b>Training/seminar/conferences attended virtually:</b>	<b>22</b>

### Research Papers Published

- Mondal A.K., Jalali V.K. and **Sharma Veena**, 2006. Distribution of boron and primary macronutrients in orchard soil of temperate Jammu, *Environment and Ecology*, **24S(2)** 400-402.
- **Sharma Veena**, 2010. Influence of puddling intensity and organic amendments on performance of rice under System of Rice Intensification and conventional transplanting. *Journal of Research, SKUAST-J*, **9(2)** 215-222
- **Sharma Veena**, Mondal, Asim Kumar, Bhat A.K, Wali Pardeep, 2010 Boron adsorption characteristics in temperate orchard soil of Jammu, *Agropedology*, **20(1)** 67-73.
- **Sharma Veena**, 2011. Depth wise Distribution of Boron in Apple Growing Temperate Zone of Jammu Region. *Journal of Research SKUAST-J*, **10(1)** 109-112. NAAS: 0
- **Sharma Veena**, 2012. Influence of puddling intensity and organic amendments on soil water availability status under System of Rice Intensification and conventional transplanting. *Journal of soil and water conservation*, **11(1)** 88-91. NAAS:
- **Sharma Veena**, Prabhakara, J., Kachroo Dilip, Samanta Abhijit. 2012. Influence of puddling intensity and organic amendments on water productivity under System of Rice Intensification and conventional transplanting. *Indian Journal of Agricultural Research*, **46(1)** 75-79.
- **Sharma Veena**, 2013. Climate change and soil biodiversity. *Journal of soil and water conservation*, **12(3)** 188-192.
- **Sharma Veena** and Singh Mahender & Sharma Rohit, 2017. Accuracy of Rainfall Forecast in Issuing Agromet Advisory for Low Intermediate Agro-climatic Zone of Jammu Region. *Journal of Safe Agriculture*. Vol.1(2): 71-73.
- **Sharma Charu**, Singh Mahender & Sharma Rohit and **Sharma Veena**. 2017. Analysis of rainfall characteristics for crop planning under low altitude subtropical agroecological zone of Jammu region. *Journal of Agrometeorology* 19(Sp. Issue). 60-66.
- **Sharma Veena** and Singh Mahender, 2018. Verification of Medium Range Weather Forecast Issued for Jammu Region to Generate Agromet Advisory. *International Journal of Current Microbiology and Applied Sciences*, **7(3)**: 176-186.
- **Sharma Veena**, Singh Mahender and Sharma B.C 2020. Analysis of weather forecast of intermediate zone of Jammu region to issue bi-weekly agromet advisory. *International Journal of Agriculture Sciences*, **12(15)**, 2020, pp.-10114-10117.
- **Sharma Veena** and Singh Mahender 2020. Agromet Advisory in Subtropical Zone of Jammu – Accuracy of Rainfall Forecast. *Journal of soil and water conservation*, **19(4)**: 404-408.
- **Sharma Veena**, Singh Mahender, Lotus Sonam and Sharma B.C. 2023. Usability of weather forecast to issue agreement advisory for Jammu district. *Journal of soil and water conservation*, **22(3)** 287-290.
- Raina Vishal, Nath Amarjit K, Sharma Satish, Kotwal Neeaj, Sharma Rohit, Sharma Manoj Kumar, Kumar Sanjeev, Kumar Vijay, **Sharma Veena**, Jamwal Mahital, Kumar Rakesh and Wali Pardeep. 2022. Promising Pureline Selection of Bhaderwah Rajmash (*Phaseolus Vulgaris*) and Its Molecular Characterization. *Agricultural Mechanization in Asia, Africa & Latin America*, **53(04)** NAAS: 6.14
- Kumar Vijay, Kumar Manoj, Khajuria Shalini, **Sharma Veena**, Banotra Moniika and Sharma Rohit. 2022. Soil Aggregate and Organic Carbon Fraction in the Foothill Himalayas under Different Land use Systems. *Agricultural Mechanization in Asia, Africa & Latin America*, **53(04)**. NAAS: 6.14
- Singh Mahender, Banotra Monika, Sharma Charu, Sharma Rohit, **Sharma Veena** and Sharma B.C. 2023. Weather based Agro indices and yield of direct seeded rice (*Oryza sativa*) as influenced by different dates of sowing and varieties in Union Territory of J&K, India. *Eco. Env. & Cons.* **29** (August Suppl. Issue): 2023; pp. S124-S128.

### Books Published:

- Veena Sharma and Vikas Sharma. 2019. *Characteristics and Management of Problem Soils*. Narendra Publishing House, New Delhi-110085, India
- Veena Sharma. 2023. *Soil chemical analysis. A practical Manual*. Narendra Publishing

House, New Delhi-110085, India

- Veena Sharma. 2023. A Text Book on Soil Biology. Narendra Publishing House, New Delhi-110085, India
- Veena Sharma. 2023. Objective Book on Soil & Water. Narendra Publishing House, New Delhi-110085, India

### **C. Extension:**

#### **Weather forecast based Agro-Advisories issued to farmers**

formulation and dissemination of bilingual weather forecast based agro advisories (Tuesday & Friday) for farmers, agri entrepreneurs and other end users of different districts **under IMD**

**From** February-2012 to June-2014 for Doda, Poonch, Rajouri, Udhampur & Ramban

From July 2014 to 6-11-2020 for Kathua & Reasi each in Hindi and English

From July 2014 to till date Jammu & Samba

From June 28 2018 to till date 5 block under Jammu

districts From November 2020 to till date 20 block under Jammu

district From April 2022 to till date 8 blocks of Samba district.

From May 2023 to till date Jammu Division

#### **Text and Voice Mobile Sms for delivery through mkisan portal**

Introduced mobile sms service for farmers. Agromet advisory issued through sms.

<b>S.No.</b>	<b>Year</b>	<b>No. of SMS disseminated</b>	<b>No. of Beneficiaries</b>
1.	2013	40	7781
2.	2014	105	49521
3.	2015:	58	101749
4.	2015	229	506247
5.	2016	48	138645
6.	2017	57	221688
7.	2018	69	424609
8.	2019	86	789083
9.	2020	41	419394
10.	2021	67	540745
11.	2022:	Mobilesms are	
12.		disseminated through mkisan portal	
13.		since 2020 text and voice message advisory through 32 whatsapp groups	

Trainings organized

Organized Training with SAMETI: **07**

Organized Farmers awareness programmes: **15**

Organized 1 month self defence training for Girls at SKUAST-Jammu during wef 01-30 Nov, 2021

Organized 5 days civil defence training for students at SKUAST-Jammu wef 04-08 March, 2022

Participation in Kisan Mela organized by SKUAST J for popularization of Agromet Advisory Services as well as Registrations of Farmers: **08**

**Lecture delivered at (SAMETI): 11**

Success Stories of farmers: **04**

#### **D: Teaching experience: Courses Taught**

1. Year 2013-14 CBC-01, Soil and Fertilizers 1<sup>st</sup> semester, of BAT/BHT 2013-14 at KVK Rajouri
2. Year 2017: SOILS 506(2+1), SSAC-111(2+1), SOILS 501(2+1)
3. Year 2018: SOILS 506(2+1), SOILS 605(2+0), SSAC 111(2+1)
4. Year 2019: SSAC 221(2+0), SOILS 506(2+1), SSAC 111(2+1), SOILS 503(2+1)
5. Year 2020: SSAC 221(2+0), SSAC 111(2+1), SOILS 503(2+1), SOILS 612,(2+1)
6. Year 2021: SSAC 111(2+1), SSAC 221(2+0), SOILS 506(2+1), SSAC 111(2+1) additional, SOILS 503(2+1), SOILS 506(2+1), NRS 111(2+1)
7. Year 2022: SOILS 506(2+1), SOILS 607(2+1), NRS 121(1+1), NSSCOCA(0+1), SSAC 111(2+1), SOILS 503(2+1)

8. Year 2022-23: SSAC 221,NRS 121,NRS 122,SSAC111,SOILS 506,SOILS 607, COCA111
9. Year2023-24SSAC111,SSAC221,SOILS607
10. Year2024-25:SSAC111,NRS-111,SOILS503
<b>Advisor to Students:</b> Major Advisor: <b>02 PG &amp; 5 UG</b> students Member Advisory Committee: <b>4 PG</b> students
<b>As an External Examiner to MSc Students: 03</b> Appointed as an external paper setter: 02
<b>Memberships to Professional Societies: 07</b>
<b>Member of Reviewer Committee of Journal and conferences: 06</b>
<b>E. Research Projects:</b> <b>PI/Co PI of Projects</b> 1. Co PI of GKMS Project, IMD, MoES wef Feb. 2012 2. Co PI of FASAL Projects since 2016 3. PI of RCM project on study of water productivity under different methods of rice establishment and irrigation regions of basmati rice wef 2021-2023 4. Co PI of the project Establishment Of Honey and Other Bee Products Testing Centre in Ramban District of Jammu Division of Jammu and Kashmir UT India funded by National Bee Board, New Delhi since 18-08-2022. 5. Co PI of the project Establishment of Integrated Beekeeping Development Centre for Promoting Bee Keeping in Jammu Region Of Jammu And Kashmir India funded by National Bee Board, New Delhi since 18-08-2022. 6. Co PI of the project Mobilization of Farmers Through Development of Bee Village For Collective Marketing of Organic Honey funded by NABARD Jammu since 18-08-2022.
<b>F. Others</b> <b>Founder Member</b> 1. <b>South Asian Forum for Agrometeorology (SAFOAM) constituted by</b> Editor-in-Chief, Weather and Climate Extremes (Elsevier) Senior Consultant, WMO 27 Chemin des Corbillettes 1216 Cointrin Geneva Switzerland 30 <sup>th</sup> July 2020  Nominated by SAFOAM as member of use of Satellite Technology committee as well as web portal SAFOAM committee
<b>I/C and Committee member:</b> for several university level programmes
<b>Examination invigilator:</b> during several Division, University and State level examinations
<b>Papers Reviewed:</b> several papers reviewed for different Journals
<b>Translation of website information in local language for IMD</b>
<b>1. CSC Agriculture Tally consultation</b>
<b>Verification of Weather Forecast and Economic Impact Assessment of Weather Forecast Based Agro Advisory : 12</b>

### **Project concluded since inception (recommendations in bullet only)**

- As long as organic amendments like farmyard manure and vermicompost are incorporated in the field and the crop residues like roots and stubbles of one crop are retained or recycled into the next crop growing season their shall be enough organic additions to the soil it leads to maintenance of optimal soil moisture status that is more than 50% of plant available moisture range throughout the crop season (Basmati

123) even under deficit or conservation irrigation schedule in sandy loam soils with at least 12% clay content in sub tropical region

- Conventional and SRI Methods are equally good in terms of water productivity whereas DSR method shows lower water productivity hence Conventional and SRI Methods are recommended over DRS for comparatively high yield with low input of water in Basmati 123.
- There was no **residual effects** of methods of rice establishment and irrigation regions affected during kharif 2021 and 22 on the grain yields of succeeding wheat (Var. JAUW-584) during Rabi 2021-22 and 2023.