**Scientist Profile**

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| Name  | Dr. Brinder Singh |
| Designation | Professor Cum Chief Scientist (Soil Science) |
| Contact Address | Advanced Centre for Rainfed Agriculture, Rakh-Dhiansar, (Distt Samba), SKUAST- Jammu -181133 |
| Area of Specialization | **Soil fertility**  |
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| Contact No | **9419152798** |
| Profile | **Professional Experience:** Research Experience **18** year of in Soil Science (2006 to till date) Teaching Experience**: 5**yearBooks Publication:**3** Publication Research:**47** National /International Journal. Technical Bulletins:**45** Compendium/Souvenir Chapters:**14** Extension publications (Popular articles in Magazines:**4** Book Chapter**-2** Extended Summary**-10** Teaching manuals:**2** Professional Societies as member: **7** Technology Published in AICRPDA Hyderaba:**4** Technology included in Package and practices SKUAST-Jammu:**3** Success Stores : **6**Booklets published * Booklet entitled “ A Brief of Research Achievements of AICRPDA was published and released in Annual Workshop of AICRPDA held at CRIDA, Hyderabad.
* Booklet entitled “ Package and practices of Kharif crops” was published and released in Annual Workshop of AICRPDA held at CRIDA, Hyderabad
* **Books authored**
* Anil Kumar, Parveen Kumar, Reena, **Brinder Singh,** Jai Kumar. Rainfed Agriculture in Jammu region a perspective 2016 ISBN:978-1-73034-201-1
* Reena, Sonika Jamwal Anil Kumar Jai Kumar, P.K.Rai, **Brinder Singh** and R. Puniya and Jai Kumar (2018) A colour Handbook on rainfed Kharif crops – Protection constraints and Mitigation Strategies New India Publishing Agency, New Delhi ISBN: 978-93-86546-69-2.
* Vikas Abrol, Anil Kumar, **Brinder Singh,** Permendra Singh. 2019.An Insight into Soil and Plant Analysis Jaya Publishing House New Delhi ISBN:978-93-87590-71-7
* **Students Guided**

Major Advisor : 01 (M.Sc.)Member Advisor : 02 (M.Sc.)On-goingMajor Advisor : 01 (M.Sc.)Member Advisor : 02 (Ph.D) & 3 (M.Sc.)**Teaching** **UG Courses*** Problematic soils & their management (SSAC-221)

 **PG Courses*** Remote Sensing and GIS Techinque for soil,water and crop studies(SOIL-509)
* **Resource Person**
* As a resource Person Lectures delivered to Farmers, T&V, Monthly Workshop, Villlage visit revisit programme and AICRPDA-NICRA Training programme
* **Quality Seed Production**
* Associated in quality seed production programme ACRA, Rakh-Dhiansar

**Village adopted** * Adopted NICRA Village Khaner
* Adopted NICRA Village Khara Madana Khane
* Adopted AICRPDA(RIFS) Village Tarore
* Adopted NICRA (SCSP) Village Deoli
* Adopted NICRA (SCSP) Village Khotya
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| Project Concluded till date since inception:(Recommendation in bullet only) | * Application 75% N (Inorganic) + 25% N (Vermicompost) with recommended dose of P and K recorded significantly higher grain yield of pearl millet
* Low cost drip irrigation result in significantly higher vegetable crop yield, higher net return and BC ratio

Growing of green onion using low cost drip irrigation method is recommended for fetching maximum returns under rainfed agro-eco systems of Jammu region* Jammu maize composite-3 (JMC-3) variety of maize recorded higher mean grain and stover yield with higher values of net returns and B.C ratio as compared to Mansar variety.

The dose of nitrogen in maize crop could be increased by 25% (75 kg N/ha) from the recommended dose (60 kg N/ha) for enhanced growth and yield of maize under rainfed conditions of Jammu.* The highest yield of maize grain was observed in Ridge Furrow method. Similarly higher net return, B:C ratio and RWUE, observed in Ridge furrow method.

Whereas amongst the nutrient management practices, application of 75% RDF along with Azotobacter resulted in Significantly higher yield of maize grain Net return B:C ratio |
| Patents granted | **-** |
| Patents Fieled | - |
| External funded project | * On-farm training and demonstration of biochar for carbon sequestration and climate change mitigation in *kandi* belt of Jammu (**Co-PI**
* HADP-Development of Rainfed areas of J & K funded by UT of Jammu and Kashmir as Co-PI, Year of Start; 2023 (**Co-PI**
* Soil and Land Resource Information System (JKSLRI) for Planning and Soil Health Management **(Co-PI)**
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| Research Projects:On going | 04 |
| Title | * Permanent Manurial Trial in Maize based cropping system
* Evaluation and development of Alternate Landuse systems for rainfed conditions of Jammu
* Strengthening of tradition Rainfed Integrated Farming Systems(ON Farm)
* National Innovation on Climate Resilent Agriculture (NICRA)
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| PI/Co-PI | PI/Co-PI |
| Funding agencyProgress made: Budget | AICRPDA -Hyderabad |
| Farmers Information: |  |
| Photograph with caption(in JPEG format onaly) |  |