

Dr. Ram Kumar Rai

Contact No+91-9752175418

Email—ramhortfruit@gmail.com

Address- Village- Saikheda, Tehsil- Silwani,

Distt- Raisen (M.P.) **Pin**-464886



CAREER OBJECTIVE

Organized and hard-working research scholar ready for an opportunity to leverage research and utilize my training and skills for the success of the organization.

EXPERIENCE

Six Month Research Experience 'Junior Project Fellow' TFRI, ICFRE, Gol From 03/03/2020 to 24/07/2020

• **Ph. D. Research Scholar**

9 Nov – Nov 29, 2022

- 21 Days training of Hands on “Hands on training on RS and GIS software” NAHEP, JNKVV Jabalpur (M.P.)

June 2016- December 2016

- **Training** - Rural Agricultural Work Experience (RAWE) at Katni KVK under JNKVV, Jabalpur (MP)
- Working with Krishi Vigyan Kendra and farmers on crop cultivation, demonstration and awareness programme

January 2017 – June 2017

- **Training** - Experiential Learning Program (ELP) at JNKVV, Jabalpur (MP)
- **Work**- Preparation of bio-fertilizers, vermicompost, bio-pesticides.

S. No.	Particulars	High School	Higher Secondary	B.Sc. (Ag)	M.Sc.(Ag)	Ph.D.
1.	Year of Passing	2009	2012	2017	2019	2024
2.	Institute	M.S.H.S. Silwani, Distt Raisen (MP)	Govt. Atridevi H.S. Sudama Nagar Indore	College of Agriculture, JNKVV, Jabalpur	College of Agriculture, JNKVV, Jabalpur	College of Agriculture, JNKVV, Jabalpur
3.	Subject/ Department	All Subject	Agriculture	Agriculture	Horticulture (Fruit Science)	Horticulture (Fruit Science)

- **PGDCA**-63.14% from Makhanlal Chaturvedi National University of Journalism

PUBLICATIONS

- Research Papers: 7
- Review Paper: 2
- Abstract: 7
- Book/ Book chapter: 5

DECLARATION

I hereby declare that all the above information is correct and accurate and I will be responsible for any discrepancy.

PERSONAL DETAILS

DOB-04/05/1994

Language- Hindi, English

SKILLS

- Research
- Problem solving
- Report writing
- Proficiency in **MS Excel, MS Power Point, MS word**
- RS & GIS

- Data Analysis with “R” Software
- Data Analysis
- Communication

HOBBY

- Book Reading
- Singing
- Sports (Kabaddi, Rassa-Kassi)

ADDITIONAL ACTIVITY/ AWARDS/FELLOWSHIP

ICAR-NAHEP-CAAST

CSDA Fellowship CoAE, JNKVV, Jabalpur, (M.P.)

- **NCC** –“B” and “C” certificate with “A” grade.
- **Army Attachment NCC Training Camp 17th Battalion Bihar Regiment From 5th Oct 2015 to 17th Oct 2015**
- **University Best Cadet Award (NCC) on the occasion of Republic Day Celebration, 2015 by Hon’ble Vice Chancellor, JNKVV, Jabalpur.**

PUBLICATIONS

S. No.	Research Paper/ Article/ Magazine	NAAS Rating
1.	Ram Kumar Rai , S. K. Pandey, C. S. Pandey, R. K. Samaiya and A. K. Upadhyay. Influence of fertilizers and Bioinoculants on growth parameters of guava (<i>Psidium guajava</i> L.) cv. L-49. <i>International Journal of Plant & Soil Science</i> . Volume 36, Issue 07, Page 232-240, 2024 .	5.07
2.	Ram Kumar Rai , C. S. Pandey, S. K. Pandey and Ranjeet Pal 2022. Evaluation of ber (<i>Zizyphus mauritiana</i> Lamk.) genotypes under Kymore Plateau Satpura Hill regions of Madhya Pradesh. <i>Journal of Crop and Weed</i> . 18(1): 90-95 (2022).	5.46
3.	Ram Kumar Rai , C. S. Pandey, S. K. Pandey, Mohni Parmar, Kumudani Sahu and Diksha S. Studies on genetic diversity in Ber (<i>Zizyphus mauritiana</i> Lamk.) in Jabalpur district of Madhya Pradesh. <i>The Pharma Innovation Journal</i> 2023 ; 12(10): 2515-2520.	5.23
4.	Mohni Parmar, P.K.S. Gurjar, Amit Kumar, C. S. Pandey, Ram Kumar Rai , Deeksha. S, Deepak Singh. Impact of Various Edible Coatings on the Physical Parameters of Guava (<i>Psidium guajava</i> L.) Fruits over Different Storage Periods. <i>Agricultural Mechanization in Asia, Africa and Latin America</i> , Volume 54, Issue 11, November, 2023	6.30
5.	Nidhi Singour, C. S. Pandey, Ram Kumar Rai , S. K. Pandey and Kamleshwar Goutam. Effect of Seed Treatment and Growing Condition on the Germination and Survivability of Custard Apple (<i>Annona Squamosa</i> L.) Seedlings. <i>International Journal of Plant & Soil Science</i> . Volume 35, Issue 21, Page 948-957, 2023 ;	5.07
6.	Pawandeep Singh, S.K. Pandey, C.S. Pandey, Ram Kumar Rai , Mohni Parmar. Evaluation of Guava (<i>Psidium guajava</i> L.) Genotypes for tree morphology and fruit characteristics. <i>Biological Forum – An International Journal</i> , 15(10): 548-553 (2023)	5.11
7.	Nidhi Singour, C. S. Pandey, Ram Kumar Rai , S. K. Pandey and Ajay Gangle. Response of Custard Apple (<i>Annona Squamosa</i> L.) seedlings to seed soaking treatment and growing condition for germination, vigour and physiological attributes. <i>The Pharma Innovation Journal</i> 2023 ; SP12(11): 734-739.	5.23
Review Paper/ Article		
1.	Ram Kumar Rai , Makhan Singh Karada, Riya Mishra, Dheer Agnihotri, Kamal Kishor Patel, Satyendra Thakur and Deepak Singh Transformative Role of Remote Sensing in Advancing Horticulture: Optimizing Sustainability, Efficiency and Resilience. <i>International Journal of Environment and Climate Change</i> . Volume 13, Issue 10, Page 3559-3567, 2023 .	5.13
2.	Megha Singh, Makhan Singh Karada, Ram Kumar Rai , Dheerendra Pratap, Dheer Agnihotri, Alok Kumar Singh and Bipin Kumar Singh A Review on Remote Sensing as a Tool for Irrigation Monitoring and Management. <i>International Journal of Environment and Climate Change</i> Volume 13, Issue 6, Page 203-211, 2023 ;	5.13
Books/ Book chapters/Article		
1.	Principles of Horticulture , Ravi Pratap, Ram Kumar Rai , Lalit Yadav, Akhil Kumar Choudhary, Budhesh Pratap Singh Golden Leaf Publishers Lucknow U.P.	ISBN 978-81-19906-82-6

2.	Organic Horticulture, Ram Kumar Rai , Deepak Singh Keram, Lokesh Nagar, Suryapratap Singh– “Recent advantage Agriculture and Forestry” Akinik Publication, Delhi	ISBN 978-93-5570-509-9
3.	Rootstock breeding for biotic and abiotic stress in fruit crops , “Collaborative Novel Techniques in Horticulture” Ram Kumar Rai , Rousan Kumar & Shivam Chourasiya. SR edu Publications.	ISBN 978-93-9294-1528
4.	Remote sensing and GIS in current agriculture farming system , “Modern Farming: Insights into Sustainable Agriculture” Vital Biotech Publication, RJ	ISBN 978-81-966753-7-6
5.	Underutilized horticultural crops: A Burst of Flavor and Potential , Hradesh Shivhare, Razauddin, Vipin, A.K. Tripathi, Ram Kumar Rai , New Era Agriculture Magazine. Volume-2, Issue-8, January, 2024	E-ISSN: 2583-5173
Abstract		Organizations
1.	Ram Kumar Rai , C.S. Pandey, Ranjeet Singh, Nidhi Singour and Ajay Gangle, HS 1-12 Rootstock breeding in vegetable crops. Advances and Challenges in Horticulture – National Seminar (2019), JNKVV, Jabalpur, (M.P.)	Department of Horticulture, JNKVV, Jabalpur (M.P.)
2.	Kamleshwar Goutam, T.R. Sharma, Ram Kumar Rai , HS 3-63 Pruning response of Ber genotype for yield and quality. Advances and Challenges in Horticulture – National Seminar (2019), JNKVV, Jabalpur, (M.P.)	Department of Horticulture, JNKVV, Jabalpur (M.P.)
3.	Ajay Gangle, C.S. Pandey, Nidhi Singour and Ram Kumar Rai , HS 3-39 Artificial pollination in fruit crop production – a review. Advances and Challenges in Horticulture – National Seminar (2019), JNKVV, Jabalpur, (M.P.)	Department of Horticulture, JNKVV, Jabalpur (M.P.)
4.	Nidhi Singour, Ajay Gangle, C.S. Pandey, and Ram Kumar Rai , HS 5-30 Organic farming in fruit production – a review. Advances and Challenges in Horticulture – National Seminar (2019), JNKVV, Jabalpur, (M.P.)	Department of Horticulture, JNKVV, Jabalpur (M.P.)
5.	Ranjeet Singh, Ram Kumar Rai , Rishikesh Tiwari, HS 6-4 Fruit Production scenario due to climate change. Advances and Challenges in Horticulture – National Seminar (2019), JNKVV, Jabalpur, (M.P.)	Department of Horticulture, JNKVV, Jabalpur (M.P.)
6.	Niranjan Saryam, Akhlesh Tiwari, Ranjeet Singh, Ram Kumar Rai , T4- P111 Processing Technologies of Millets. National Conference on Production, Processing and Marketing of Millets: Issues and Solutions March 1-2, 2023.	JNKVV, Jabalpur and NABARD, Bhopal (M.P.)
7.	Roopaj Mishra, Ishita Rajput and Ram Kumar Rai , T4-P38 : Comparative Study on The Development and Quality Evaluation of Millet based Pasta. National Conference on Production, Processing and Marketing of Millets: Issues and Solutions March 1-2, 2023.	JNKVV, Jabalpur and NABARD, Bhopal (M.P.)

PARTICIPATION CERTIFICATE		
S No.	Certificate	Organization
A.	Conference Participation Certificate	
1.	National Convention on Challenges in Indian Agriculture & Future Strategies for Sustainability, AGIVISION, JNKVV Jabalpur-2016	Vidhyarthi Kalyan Nyas, Bhopal(M.P.)

2.	National Seminar - Advances and Challenges in Horticulture – (2019), JNKVV, Jabalpur, (M.P.)	Department of Horticulture, JNKVV, Jabalpur (M.P.)
3.	35 th National Convention of Agriculture Engineers & National Seminar on “Emerging Technologies for Advances in Agriculture & Horticulture”-2023	The Institution of Engineers (India), Jabalpur, ICAR-NAHEP, CoAE, JNKVV, Jabalpur (M.P.)
4.	4 th Agrivision- 2019 National Convention on Integrated Agriculture- Prosperous Bharat	Vidhyarthi Kalyan Nyas, Bhopal(M.P.)
5.	National Confrence on Production, Processing and Marketing of Millets: Issues and Solutions March 1-2,2023	JNKVV, Jabalpur and NABARD,Bhopal (M.P.)
B.	Training Participation Certificate	
1.	21 Days training of Hands on “Hands on training on RS and GIS software” NAHEP, JNKVV Jabalpur (M.P.)	NAHEP-CAAST-CSDA, CoAE, JNKVV, JABALPUR, (M.P.)
2.	21 Days training of Hands on “Hands on training on Artificial Intelligence in Agriculture” NAHEP, JNKVV Jabalpur (M.P.)	NAHEP-CAAST-CSDA, CoAE, JNKVV, JABALPUR, (M.P.)
3.	10 Days training on “Entrepreneurship Development Among the Students on Innovative Technologies in Horticulture Production” NAHEP, JNKVV Jabalpur(M.P.)	Department of Horticulture, CoA &NAHEP-CAAST-CSDA, CoAE, JNKVV, JABALPUR, (M.P.)
4.	10 Days training on “Advances in Remote Sensing Techniques for Geological Application” From 13 th March 2023 to 24 th March 2023 (Online Course)	IIRS, Dehradun and JNKVV, Jabalpur, (MP)
5.	21 Days training on “Programming with R” From 06 th May 2022 to 04 th June 2022	Madhya Pradesh Agriculture Market Intelligence Centre (AMIC), JNKVV, Jabalpur, (M.P.)
6.	3 Days training on Entrepreneurship Awareness Camp From 28 th March to 30 th March 2019	NSTEDS, Dept. of Science and Technology, GoI, New Delhi
7.	1 st International Day of Yoga – Certificate of Participation on 21 June 2015	NCC Directorate MP & CG
8.	Army Attachment Ncc Training Camp 17 th Battalion Bihar Regiment From 5 th Oct 2015 to 17 th Oct 2015	17 th Battalion Bihar Regiment Headquarters 72 Infantry Brigade Gwalior (M.P.)
9.	National Integration Camp-II Odisha held at NII Rourkela Complex wef 19 th Dec 2014 to 30 th Dec 2014	9(o) BN NCC Rourkela Sambalpur Group Odisha

THESIS DETAILS

➤ **MSc. (Ag) Horticulture – Fruit Science, Dept. of Horticulture**

Title: Evaluation of Ber (*Zizyphus mauritiana* L.) genotype under Kymore Plateau and Satpura hills regions.

Major Advisor: Dr. C. S. Pandey (Scientist, Dept. of Horticulture, College of Agriculture, JNKVV, Jabalpur)

➤ **PhD, Horticulture,**

Title: Spectral and Functional Influence of Fertilizers and Bio-inoculants On Morpho-Phenological, Yield-attributes and Quality of Guava (*Psidium guajava* L.) Cv. L-49.

Objectives:

- To study the effects of fertilizers on growth, yield, and quality traits of guava
- To study the effects of bio-inoculants on growth, yield, and quality traits of guava
- Interaction effects of fertilizers and bio-inoculants on growth, yield, and quality traits of guava
- Spectral characterization of growth and physiological parameters of guava using proximal remote sensing techniques
- To find out the economic feasibility of the treatments

Major Advisor: Dr. S. K. Pandey, Prof. & Head, Department of Horticulture, College of Agriculture, JNKVV, Jabalpur (M.P.)

Date:

Place

Ram Kumar Rai