



CURRICULUM VITAE

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| S/O- NETRA PAL SINGH | S/O- NETRA PAL SINGH |
| JANKIPURAM SECTOR -F | SINGH VAHINI COLONY, ALOO MANDI ROAD BHOPAT PATTI |
| LUCKNOW, UTTAR PRADESH | FARRUKHABAD, UTTAR PRADESH |
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CAREER OBJECTIVE

A flexible, dedicated, and self-disciplined horticulture professional with specialization in fruit production and post-harvest technology, seeking a challenging role in Agricultural Research & Development, planning, and implementation. Experienced in diverse areas including plant physiology, urban horticulture, fruit breeding, biodiversity conservation, crop improvement through breeding programs, propagation, and cultivation practices. Skilled in conducting physiological and phenological studies, as well as evaluation of morphological, physiological, and biochemical traits for crop improvement. Possesses strong interpersonal and communication skills, with proven expertise in data analysis, research methodologies, and computing applications. Experienced in designing and executing field trials and analyzing experimental data to support innovative solutions in crop production. Adept at working independently and collaboratively within multi-disciplinary teams. A detail-oriented Agronomist committed to developing and implementing sustainable farming solutions that enhance crop productivity, improve resource efficiency, and contribute to the long-term growth of agricultural systems.

AREA OF INTEREST:

To build a career in Agricultural and Horticultural Sciences with a focus on fruit science, post-harvest technology, fruit breeding, pomology, nursery management, and onsite field testing. Proficient in managing horticultural crops with expertise in crop improvement, orchard management, and sustainable production practices. Seeking a role as a Horticulturist or Agronomist to contribute to innovative research and practical solutions for enhancing fruit crop productivity and quality.

QUALIFICATION

| Qualification | Institution/University | Year | Marks in % |
|---------------------------------|--|-----------|------------|
| M.Sc. (Ag.) Horticulture | CBG College of Agriculture, Lucknow university | 2016-2018 | 81.1 |
| B. Sc. (Agriculture) | Janta college of agriculture, Ajeetmal, Auraiya, CSJMU | 2012-2016 | 74.2 |
| Intermediate | UP BOARD | 2012 | 74.2 |
| Highschool | UP BOARD | 2010 | 59.6 |

ACHIEVEMENTS

Qualified ICAR-NET (2019) in the discipline of Fruit Science, certified by the Agricultural Scientist Recruitment Board (ASRB).

- ❖ In my working period a farmer & KVK Baramati (Pune) gets registration certificate from **PPV & FRA for G-Vilas Pasand & Ratnadip Guava Varieties.**
- ❖ Webinar Certificate, webinar organized by CBG agriculture PG college on **challenges and opportunities in horticulture in the scenario of covid 19 Pandemic.**

PROJECT DETAILS

- ❖ Six-month Rawe project held in college campus and off campus during graduation.
- ❖ Six-month Project work (Strawberry Project Work) held in college campus during post-graduation.

PUBLICATION

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|----------------|---|
| Research Paper | Identification and validation of novel genomic SSR markers for molecular characterization of guava (Psidium guajava L.) |
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| Article | 2. अधिक आय हेतु अमरुद में उन्नत फसल प्रबंधन अधिक आय हेतु बर में उन्नत फसल प्रबंधन |
| Abstract | Evaluation of Hybrid progenies for the development of promising Guava varieties Effect of organic manure with humic acid on yield and economic of onion (<i>allium cepa</i>) |

Technical Expertise of field related work

- ❖ Fruit Crop Breeding: Specialized in genetic improvement and breeding programs of Mango (*Mangifera indica*) and Guava (*Psidium guajava*).
- ❖ Germplasm Conservation: Proficient in establishing and maintaining field gene banks for fruit crops to ensure long-term conservation of valuable plant genetic resources.
- ❖ Data Management: Skilled in systematic data collection, record keeping, yield monitoring, and resource utilization tracking for scientific evaluation and performance analysis.
- ❖ Farm Resource Coordination: Competent in planning and ensuring the timely availability and optimal utilization of farm machinery, agricultural inputs, and field resources.
- ❖ Research and Development: Experience in organizing research projects, field trials, and experimental layouts to evaluate horticultural practices and technologies.
- ❖ Crop Layout and Planning: Adept at orchard layout design, seasonal crop planning, planting schedules, rotation programs, and cultivar/variety selection.
- ❖ Nutrient Management: Expertise in soil fertility assessment, integrated nutrient management, and precision fertilizer application to enhance crop productivity while minimizing ecological impact.
- ❖ Field Trial Design: Proficiency in designing and executing on-farm and experimental trials for testing agricultural innovations, crop management practices, and product evaluation.
- ❖ Farm Operations Management: Skilled in supervising planting, irrigation, fertigation, crop protection, and harvesting operations across multiple farm plots.
- ❖ Leadership and Team Management: Proven ability to direct, supervise, and motivate farm supervisors, skilled workers, and labor teams to achieve operational efficiency.
- ❖ Irrigation and Water Management: Expertise in developing optimized irrigation schedules and water-saving practices for enhanced productivity and sustainability.
- ❖ Farmer Outreach: Experience in farmer interaction, training, and technology dissemination for adoption of improved horticultural practices.
- ❖ Project and Trial Management: Skilled in planning, execution, monitoring, and reporting of field projects and adaptive research trials.
- ❖ Field Monitoring & On-site Testing: Proficient in field visits, diagnostic surveys, and on-site testing of crop performance and soil-plant health parameters.
- ❖ Post-harvest Evaluation: Strong ability to evaluate fruit quality attributes, value-added products, and consumer acceptance parameters.
- ❖ Crop Regulation: Specialized knowledge in physiological and agronomic regulation of Guava for season manipulation and yield enhancement.
- ❖ Nursery and Propagation Management: Expertise in nursery establishment, plant propagation techniques, and raising high-quality planting material.
- ❖ Genetic Resource Conservation: Dedicated to the collection, characterization, and conservation of horticultural germplasm for future breeding programs.

Technical Expertise of lab & PC related work

- ❖ Laboratory Techniques: Skilled in standard procedures applied in Agro-Horticultural Chemistry laboratories.
- ❖ Data Analysis: Proficient in applying statistical tools and biometrical methods for interpretation of experimental data and deriving data-driven recommendations.
- ❖ Scientific Reporting: Ability to prepare comprehensive technical reports on research findings, experimental trials, and field observations.
- ❖ Instrumentation Proficiency: Hands-on experience with digital and hand refractometer, pH meter, leaf area meter, spectrophotometer, penetrometer, and other analytical instruments.
- ❖ Computational Skills: Proficiency in MS Word, PowerPoint, and MS Excel for data management, presentations, and reporting.
- ❖ Biochemical Analysis: Expertise in estimation of Total Soluble Solids (TSS), Titratable Acidity, Ascorbic Acid, Total Antioxidants, Flavonoids, Phenols, Lycopene, and Carotenoids.
- ❖ Data Compilation and Management: Skilled in compiling, maintaining, and analyzing experimental and field data.
- ❖ Germplasm Conservation: Experience in maintaining 162 guava genotypes and managing around 2500 guava hybrids for breeding and research programs.
- ❖ Post-harvest Management: Knowledge of pre- and post-harvest handling practices to enhance fruit quality, storage, and shelf-life.
- ❖ Documentation & Imaging: Competence in field documentation, data recording, and scientific photography for research and extension purposes

Executive Summary of work & Experience

- ❖ Over Six Year experience of senior research fellow in PPV & FRA Funded project DUS Guava in ICAR -CISH, Lucknow
- ❖ **Maintain 162 genotype of Guava germplasm & and around 2500 hybrids of Guava.**
- ❖ Experience in collection of Guava Germplasm (Guava Diversity).
- ❖ Characterization 100 Genotype of Guava.
- ❖ Characterization 200 Genotype of Mango.
- ❖ Total of 20 Guava accessions were collected from different Sources.

PERSONAL STRENGTH:

Do hard work
Self- Motivated
Focus on priorities
Always Ready to Learn

HOBBIES AND INTERESTS:

Gardening

Reading Books

Playing Badminton

Exploring new places

Nitin Kumar Singh
Lucknow