

Brief Biodata



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Academic career:

| Degree/Diploma | Year | Board / University | Subject |
|--|----------------------|---------------------------|---------------------------------|
| Ph.D. (Horticulture) | 2004 | GBPUA&T, Pantnagar | Horticulture |
| M.Sc.Ag (Horticulture) | 2001 | GBPUA&T, Pantnagar | Horticulture |
| B.Sc.(Ag) | 1999 | I.Ag.Sc.,B.H.U., Varanasi | Agriculture & allied |
| NET | 2001, 2004 & 2006 | ICAR (ASRB) | Horticulture (Fruit Science) |
| Proficiency in computer (3 months) | 2003 | AISECT | MS office |

Title of Thesis

(a) **Ph.D.** – 2004
(Horticulture)

In vitro cloning of Brazilian
guava (*Psidium guineense* SW.)

(b) **M.Sc. (Ag.)** 2001
(Horticulture)

Effect of zinc sulphate on vegetative growth, yield and
leaf nutrient status of guava (*Psidium guajava* L.)

Positions Held

| Name of the post | Name and address of employer | Duration of appointment with dates |
|---|--|--|
| Associate Professor(Horticulture) | Registrar, JNKVV, Jabalpur | 22.02.2017 to till date |
| Subject Matter Specialist /Scientist (Horticulture) | Registrar, JNKVV, Jabalpur | 01.02.2007 to 21.02.2017(10 Years) |
| Research Associate(RA) | Director, CITH, Srinagar, J&K | 12 July 2006 to 31 Jan. 2007 (6 months) |
| SRF | Director Experiment, <i>GBPUA&T, Pantnagar</i> | 17 Jan 2005 to 11 July 2006 (1 yr 5months and 24 days) |
| SRF | Head, Deptt of Horticulture, <i>GBPUA&T, Pantnagar</i> | 22Aug to 2003 to Feb 29 2004 (6 months) |

FELLOWSHIPS

- **Junior Research Fellowship (ICAR)** during M.Sc. Programme
- **University Fellowship during Ph.D. Programme** (G.B.PUA&T, Pantagar)
- **MASHAV Scholarship(ISRAEL) for International Training Programme during 2017.**

FELLOW

- **Fellow of Society of Environment Sciences , Fellow of Association for the Advancement of Biodiversity Science & Fellow of Association of Plant Science Researchers (FAPSR) AWARDS**
- **Best KVK Award-2010 (Zonal, ICAR), KVK, Jabalpur**
- **Outstanding Achievement Award (Horticulture)** by Genesis Urban and Rural Development Society (GUARD), Hyderabad in September, 2016.
- **Young Scientist Award** by ASTHA Foundation, Meerut for outstanding contribution in the field of Horticulture in December, 2015 at RVSKVV, Gwalior.
- **Best Paper Presentation (Oral)** award for the paper “Horticulture initiative for small farmers” in National Conference on “Reinvigorating Agricultural Innovations for Farmers Empowerment and Development” held during 3-4 May, 2015 at PJTSAU, Hyderabad.

- **Poster presentation award** for the paper “Growth, yield and water use efficiency in tomato as influenced by drip irrigation and black plastic mulch” in the National Conference on “Soil Health: A key to unlock and sustain production potential” held at JNKVV, Jabalpur during 3-4 Sept, 2014.
- **Young Scientist Associate Award (Horticulture)** by Bioved Research Society, Allahabad during Feb. 2014 at Lucknow (UP).
- **Best Paper Presentation (Oral) Award** for the paper “Door crop/window crops: A way to livelihood security to landless and small farmers by Search and Research Development Society, Bhopal during Sept, 2013 at Bhopal.

INTERNATIONAL EXPOSURE:

- **Attended International Training on “Mitigation of Abiotic Factors in Arid and Semi Arid Environment Gilat Research Institute Israel from 22nd October -10th November 2017.**
- **Under “Mukyamantri Kisan Videsh Addhyan yatra” Visited Philippines (IRRI, UPCA, Nature Farm) and Taiwan from 4th -15th March 2014 as a Scientist.**

TEACHING

- **Guided 04 Ph.D. ,27 students** of M.Sc. (Ag.) Horticulture and Co-advisor of **12 students**.
- **Developed broad course outline** for the Experiential Learning Progarmme for IVth year students on “Protected cultivation of vegetables & flowers in polyhouse”.
- Guided Agricultural graduates and Post graduates through Tutorial Cell of JNKVV, Jabalpur out of which 38 students got selected as **Rural Horticulture Extension Officer (RHEO)** 2013-14 and 01 student selected in **Agriculture Research Services (ARS-2015)**, Six student in **NET (ICAR)** and 09 students in RHEO (Rural Horticulture Extension Officer2016) and 8(Eight) student qualified NET(ICAR) during 2018.
- Engaged in **Undergraduate, Post Graduate and Ph.D.** Degree programme since 2007to till date
- **Experience in teaching**

| Degree | Bachelor | Master | Doctorate |
|--------|----------|---------|-----------|
| Year | 14 Years | 16 Year | 12 ear |

- **Number of courses taught and year of experience**

| Sr | Degree | Title of the course taught | Year of experience for the course |
|----|--------|----------------------------|-----------------------------------|
| | | | |

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| 1 | Bachelor | Vegetable Production (2006-07) | 1 year |
| 2 | | Production Technology of fruit crops (2007-08) | 1 year |
| 3 | | Fruit crops including Plantation crop (2007-08) | 1 Year |
| 4 | | Fundamentals of Horticulture (2008-09) | 1 Year |
| 5 | | Agriculture for Engineers (2008-09) | 1 Year |
| 6 | | Protected cultivation and Post Harvest Technology (2008-09 to 2010-12) | 3 Year |
| 7 | | Protected Cultivation of Vegetable and Flower (Experiential Learning) (2010-11) | 1 Year |
| 8 | | Horticulture work Experience (RAWE) & AIA-Fruit and Vegetable Production Interventions(2017-18 to 2019-20) | 3 Year |
| 9 | | Experiential Learning Programme (2017-18 to till date) | 5 Years |
| 10 | | Principles of Horticultural Crops and Plant Protection (2021-22 to till date) | 3 Year |
| 11 | | Production Technology For Ornamental Crops, MAPs and Landscaping (2022-23 to till date) | 2 Year |
| 1 | Master | Principles of Fruit Production (2008-09) | 1 Year |
| 2 | | Growth & Development Of Horticultural Crops(2009-10) | 1 Year |
| 3 | | Tropical and Dry Land Fruit Production (2009-10 to till date) | 12 Years |
| 4 | | Breeding of Fruit Crops (2009-10 to 2018-19) | 11 Years |
| 5 | | Climate Management in Horticulture Production (2010-11 to 2019-20) | 10 Years |
| 6 | | Fundamentals of Processing of Vegetables (2017-18) | 1 Year |
| 7 | | Production Technology of Under Exploited Vegetable Crops(2018-19) | 1 Year |
| 8 | | Production Technology of fruit Crops (Horticulture) 2018-19 | 1 Year |
| 9 | | Breeding of Fruit Crops (2022-23 to till date) | 1 Year |
| 10 | | Protected Cultivation of Vegetable Crops (2022-23 to till date) | 2 Year |
| 11 | | Tropical Fruit Production (2022-23 to till date) | 2 Year |
| 1 | Doctorate | Advances in Growth Regulation of Fruit Crops (2010-11 ,2017-18 to till date) | 6 Years |
| 2 | | Advances in Fruit Breeding (2011-12 & 2012-13) | 2 Years |
| 3 | | Abiotic Stress Management In Vegetable Crops (2016-17 to till date) | 8 Years |
| 4 | | Protected Cultivation of Vegetables Crops (2018-19 to till date) | 4 Years |
| 5 | | Innovative Approaches of Fruit Breeding (2022-23 to till date) | 1 Year |

RESEARCH

- Principle Investigator JNKVV,Jabalpur of Mission for Integrated Development of Horticulture(GOI,Spices,Calicut)
- **Adhoc Project: Co –Principle Investigator** of project “Promotion of low cost Precision farming technologies for diversification of livelihood option and poverty alleviation among small and marginal farmers, 2015-16 (**NABARD –Rs 8.36 lakh**).

Major Achievements

- Standardized the technique of **Wedge Grafting** in Mango, Guava, Jamun and Jackfruit.
- Standardized the **one leaf pair pruning** along with 3 % KNO₃ foliar application technique in guava for Kymore & Satpura Plateau region.
- Technology of edible coating with **sago at 5 per cent** concentration increased the shelflife of Custard apple by 8 days.
- Standardization of **Vegetable grafting Technique** Tomato on Brinjal and Tomato on Potato



EXTENSION

- Innovative unit **Scion bank** has been established in KVK and nearly 10,000 bud sticks of mango, guava and aonla; and cuttings of pomegranate have been made available to the progressive farmers and government nurseries.



- Use of Rice field bunds by growing of pigeon pea/ marigold as **Door/Window Crop** and adopted in about 210 ha area
- Introduced the technology of **Drip cum Polymulch raised bed cultivation** system for horticultural crops in Jabalpur (478 ha).
- **Pea variety PSM-3** and **GS-10** liked by farmers and in last 5 years had covered nearly 2/3rd area of pea cultivation in Jabalpur district.
- Three success stories of the farmers related to entrepreneurship development have been published.
- **Established Polyhouse & Drip Irrigation System Unit at** KVK Jabalpur and till date 6415 farmers have visited.



Visit Of Deputy Director General (ICAR/Govt. Of India)-NRM & Extension Dr. A.K.Sikka and Hon'ble VC Prof. Vijay Singh Tomar along with Zoal Project Director (Zone VII, ICAR/Govt.)





Visit Of Horticulture Commissioner (Govt. Of India) Dr S.K. Malhotra and Director Horticulture (M.P.)



Visit of Dignitaries to polyhouse and drip irrigation system unit at KVK





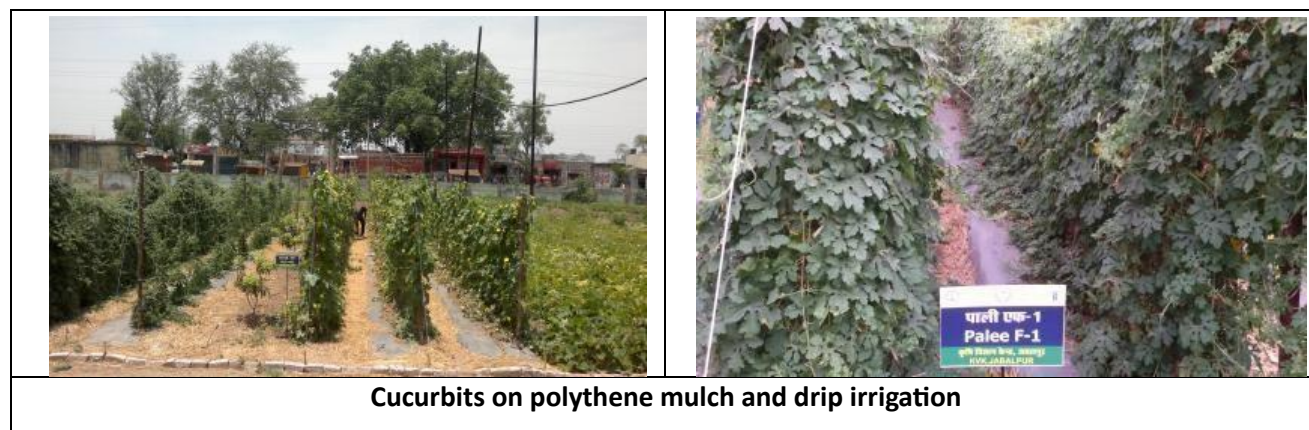
Polyhouse Parthenocarpic Cucumber



View of Agro technological park of KVK with polythene mulch and drip irrigation system



Brinjal on drip irrigation and polythene mulch



Developed Scion bank

The acute shortage of genuine planting material of the improved varieties is one of the major constraints resulting into limiting production, productivity of fruit crops in the district as well as state level. Scion bank has been established in KVK to provide scions of improved varieties of fruit crops namely pomegranate, guava, tamarind, mahua, lemon, aonla, etc. to farmers, nurseries and state department to meet the requirement of planting material for area expansion, rejuvenation and to encourage production and supply of quality planting material in private sector by setting of small nursery and generate employment. This innovative unit also extends training, field visits to farmers, rural youth, in service personnel of department, scientists etc.



Fruit Cafeteria/vegetable crop cafeteria:

- Vegetable crops namely hybrid okra, bottle gourd, Sponge gourd and Bitter gourd were grown in the cafeteria during summer.
- Hybrid okra was grown with two systems of sowing (on the ridges & at the edge of rows) and two spacing (30cm x20 cm and 60cm x40 cm) under triangular system and parallel system of planting.
- Cucurbits were planted on the ridges (Ridge & Furrow system) on both sides and channels are used for irrigation purpose. Among the bottlegourd variety “Pusa Naveen” was found best in performance.

Publications

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|---|----|
| • Total Research Papers Published in Journals | 31 |
| • Abstracts | 27 |
| • Extension Bulletins | 15 |
| • Training manual | 03 |
| • Popular articles | 82 |
| • Radio talk: | 10 |
| • TV Talk: | 05 |