



1. Name : **Dr. Nirmal De**
2. Designation: **Associate Professor**

3. Academic Qualifications:

| Sr. | Degree | Institution | Year |
|-----|---------------|---------------------|------|
| 1. | Matriculation | W.B.B.S.E | 1981 |
| 2. | Intermediate | W.B.C.H.S.E | 1983 |
| 3. | B. Sc | BCKV, W.B | 1988 |
| 4. | M. Sc | BCKV, W.B | 1991 |
| 5. | Ph. D. | I.A.R.I., New Delhi | 1996 |

4. Area of Specialization: (brief writeup) if any:

- Nutrient management for soil health & livelihood security
- Simulations modeling for increase input use efficiency
- Development of techniques to mitigate moisture and heat stress tolerance in Rainfed agriculture
- Genetics of nutrient uptake

5. Contact Information: **Mobile: 9451941645**
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6. Projects Undertaken as PI/ Co PI(if any):

7. Awards/ Recognitions (if any):

- Awarded National Scholarship from class 10 up to B.Sc. (Ag) studies
- University Merit Fellow (Bidhan Chandra Krishi Viswavidyalaya, Nadia, W.B) during M. Sc. (Ag) studies
- Awarded Senior Research Fellow of IARI during Doctoral studies (1991-1993) and CSIR, SRF during (1994-95)
- National Second in Agricultural Research Service examination in Soil Science/Fertility/ Soil Chemistry/ Microbiology conducted by ASRB for recruitment of scientist in ICAR organization.
- Awarded Indian National Science Academy (INSA) summer training for Teachers fellowship during 2008.

8. List of major Publications: (in order of importance)(if any)
(Performances/ exhibitions in the case of Faculties of Performing Arts and Visual Arts)

Research papers

1. Rai AK, Verma MM, and **De Nirmal**. (2009). Application of rock phosphate in composting improves the quality of compost. *Ind. J. Agril. Chem.* (Accepted-ref no. 5/926)
2. **De Nirmal** and Datta, SC. (2009). Assessing effect of time, temperature, moisture and labile P content on phosphate availability in rhizosphere soil of tomato by resin disc technique. *Indian J. Hort.* 66 (1): 69-72
3. **De Nirmal** and Datta S.C. (2008). Modeling time-dependent phosphate buffering capacity in different soils as affected by bicarbonate and silicate ions. *Australian J. Soil Res.* 46 : 315-322
4. **De Nirmal**, Rai, A, Singh, KP, Satpathy S and Rai, M. (2008). Available soil nutrients status and yield of tomato grown organically in an Inceptisol. *Veg Sci.* 35 (2): 206-207
5. **De Nirmal**, Ram, D. and Pandey, S. (2008). Physiological traits as determinant of yield in muskmelon (*Cucumis melo* L.) under field conditions. *Indian J. Hort.* 65 (1) : 40-43
6. **De Nirmal** and Datta, SC. (2008). Resin Disc Technique: Assessing effect of time, temperature, moisture and labile P content on phosphate availability in soil. *Indian J. Agril. Chem.* 41(1): 1-8

7. **De Nirmal** and Datta S.C. (2007). Relationship between phosphorus sorption and soil acidity as affected by bicarbonate and silicate ions. *Commun. Soil Sci. Plant Anal.* 38(5): 679 – 694
8. **De Nirmal**, Singh, RK and Rai M. (2007). Soil moisture regime and genotypes influence yield of pea. *Ind. J. Hort.* 64 (3): 328-330
9. Pandey P.K, Shivalingaswami T.M, Pandey K.K, **De Nirmal**, Satpathy S and Prasad K. (2006). Dissipation pattern of Carbofuran residue in chilli. *Veg. Sci.* 33 (2): 212-213.
10. **De Nirmal**, Kumar A, Singh, RK, Rai AK and Rai M. (2006). Effect of biofertilizers on quality of vegetable pea (*Pisum sativum* L.). *Plant Archive.* 6 (2): 241-246
11. Singh RK, Singh J, **De Nirmal**, and Rai M. (2006). Effect of nutrient on yield and root parameters in vegetable pea. *Veg. Sci.* 33 (1): 88-90.
12. Singh RK, Shukla DN and **De Nirmal**. (2006). Effect of biofertilizers, fertility level and weed management on weed growth and yield of late sown chickpea (*Cicer arietinum*). *Indian J. Agric. Sci.* 76 (9) : 561-563
13. **De Nirmal**, Singh RK, Kumar A and Singh J. (2006). Effect of organic inputs and biofertilizers on biomass, quality and yield parameters of vegetable pea. *Int. J. Agril. Sci.* 2 (2): 234-237
14. **De Nirmal** and Rai M. (2006). Growing tomato and brinjal the IPNM way. *Indian Hort.* 51(3): 23, 27
15. Rai M, Lal H and **De Nirmal**. (2006). Cowpea for human health. *Indian Hort.* 51(3): 35
16. **De Nirmal**, Chaurasia S.N.S, Singh K.P. and Banerjee M.K. (2005). Nutrient management of chilli in an Inceptisol. *Annals of Agri Bio Res.* 10 (2): 177-180
17. **De Nirmal**, Singh K.P., Banerjee M.K. and Kalloo G. (2005). Nutrient management and genotypes influence yield and quality of tomato. *Annals of Agri Bio Res.* 10 (2): 181-186
18. **De Nirmal** and Mathura Rai (2005). Micronutrient disorders and management in vegetable crops: A Review. *Veg. Sci.* 32 (1): 1 – 10
19. Singh, RK, Singh, J, **De Nirmal** and Rai M. (2005). Integrated nutrient management influences yield and nodulation of pea. *Veg. Sci.* 32 (1): 59 - 61
20. **De Nirmal**, Singh B, Rai M, and Kalloo G. (2005). Phosphate dynamics in okra (*Abelmoschus esculentus* L Moench) *Veg. Sci.* 32 (2): 154 - 157
21. **De Nirmal**, Kumar, S., and Kalloo G. (2005). Baby corn technology- evaluation of corn hybrids for baby corn production. *J. Hortic. Sci.* 18 (2): 126 - 127
22. Pandey P.K, Shivalingaswami T.M, Pandey K.K, **De Nirmal**, Satpathy S and Prasad K. (2004). Dissipation pattern of dimethoate residue in cabbage. *Veg. Sci.* 31 (2): 181-182
23. Satpathy S, Rai S, **De Nirmal** and Singh, A.P. (2004). Effect of insecticides on leaf net carbon assimilation rate and pest incidence in okra. *Indian J. Plant Protection* 32 (2): 22-25
24. Satpathy S, **De Nirmal**, and Rai S. (2003). Suitable rearing medium for rice grain moth (*Corcyra cephalonica*) (Pylalidae: Lepidoptera). *Indian J. Agric. Sci.* 73 (6): 331-333
25. **De Nirmal**, Chaurasia S.N.S, Singh K.P. and Kalloo G. (2002). Analysis of chemical composition influencing shelf- life of tomato (*Lycopersicon esculentum*). *Indian J. Agric. Sci.* 72 (1): 29-31
26. Chaurasia S.N.S., **De Nirmal** and Singh K.P. (2002). Response of hybrid chilli to applied nitrogen in an Inceptisol. *Indian J. Hort.* 59 (4): 423-426
27. Chaurasia S.N.S., **De Nirmal**, Singh K.P. and Kalloo G. (2001). *Azotobacter* improves shelf- life of tomato (*Lycopersicon esculentum*). *Indian J. Agric. Sci.* 71 (12): 765-767
28. Chaurasia S.N.S., **De Nirmal** and Singh K.P. (2001). Influence of graded doses of nitrogen on indeterminate tomato hybrids. *Veg. Sci.* 28 (2): 157-159
29. **De Nirmal**, Rajkumar and Kalloo G. (2001). Diet versatility in cowpea (*Vigna unguiculata*) genotypes. *Indian J. Agric. Sci.* 71 (9): 598-601
30. Ram D., **De Nirmal**, C Prakash and Kalloo G. (2001). Inter-association of physio-phenological traits in selected cucumber (*Cucumis sativus*) genotypes under field conditions. *Indian J. Agric. Sci.* 71 (10): 644-647
31. **De Nirmal** (2001). Resin disc techniques for measurement of phytoavailable Phosphorus. *ICAR News* 7 (4): 14

Book/ Book Chapters:

1. **De Nirmal** and Rai A. (2008). Carbonic Sabjiyon Utpadan. In: Sabjiyon Ki Adhunik Utpadan Technique. (Eds.) Rai M, Rai N and Rai AB. International Book Distributing Company (IBDC), U.P., India. P. 154-171
2. **De Nirmal**, Rai A and Kumar A. (2008). Suksham Urwarko Ka Prayog. In: Sabjiyon Ki Adhunik Utpadan Technique. (Eds.) Rai M, Rai N and Rai AB. International Book Distributing Company (IBDC), U.P., India. P. 172-181

3. **De Nirmal**, Kumar R, Rai M and Kalloo G. (2006). Potassium and water regimes on stomata conductance of field grown tomato under water stress condition. In: Balance fertilization for sustaining crop productivity. (Eds.) Mukhopadhyay S.S., Brar M.S. and Sharma P. International Potash Institute, **Horgen, Switzerland**. P. 515-517
4. Chaurasia, S.N.S., **De, Nirmal** and Singh, K.P. (2004) Effect of Organic Sources of Nutrients on Growth and Yield attributing character of cabbage (*Brassica oleracea* var. capitata) In: Organic Farming in Horticulture (Eds.) Pathak, R. K, Ram, R. A. and Singh, A.K. p. 158-161.
5. Chaurasia, S.N.S.; **De, Nirmal**, Bahadur, Anant and Singh K.P. (2003) Influence of Organic Sources of Nutrients on Yield Performance of Onion cv. Agri Found Light Red. Text Book “Approaches for Sustainable Development of Onion and Garlic” Eds Singh Kirti, Lawande, K.E., Pandey, U.B., Singh Lallan and Bhonde, S.R. p. 209-212.
6. Chaurasia, S.N.S.; **De, Nirmal**, Bahadur, Anant and Singh K.P. (2003) Role of Bio-fertilizer on Yield performance of Onion. Text Book “Approaches for Sustainable Development of Onion and Garlic” Eds Singh Kirti, Lawande, K.E., Pandey, U.B., Singh Lallan and Bhonde, S.R. p. 213-216.
7. Kalloo G. and **De Nirmal** (2001). Abiotic stress in vegetable crops: Present status and future perspectives. In: Emerging Scenario in Veg. Res. & Dev. (Kalloo & Singh Eds.) Research Periodicals and Book Publishing House, **Houston Texas, USA**. p. 144-162.
8. **De Nirmal** and Kalloo G. (2001). Modelling in Vegetable Production: Concepts and Prospects. In: Emerging Scenario in Vegetable Research & Development (Kalloo & Singh Eds.) Research Periodicals and Book Publishing House, **Houston Texas, USA**. p. 267-226.
9. Tiwari R.C. and **De Nirmal** (2001). Integrated Nutrient management in Vegetable Crops. In: Emerging Scenario in Vegetable Research & Development (Kalloo & Singh Eds.) Research Periodicals and Book Publishing House, **Houston Texas, USA**. p. 210-226.

Technical Bulletin

1. **De Nirmal**, Pandey S, Singh KP and Rai M. (2004). Integrated development of gourds and melons. IIVR, Technical Bulletin No. 13, pp 57, Varanasi, India.
 2. **De Nirmal**, Singh KP and Rai M. (2004). Micronutrient deficiency symptoms in vegetable crops and their management. IIVR, Technical Bulletin no. 14, pp 28, Varanasi, India.
 3. Chaurasia SNS, **De Nirmal**, Singh KP, Banerjee MK and Rai M. (2004). Nursery management in vegetables. IIVR, Technical Bulletin no. 15, pp 36, Varanasi, India.
 4. **De Nirmal**, Chaurasia SNS, Pandey KK, Singh KP and Rai M. (2004). Sabjiyon ki paud taiyer karna. IIVR, Technical Bulletin no. 20, pp 34, Varanasi, India.
 5. **De Nirmal**, Singh KP, Banerjee MK and Rai M. (2004). Exotic vegetables. IIVR, Technical Bulletin no. 21, pp. 27, Varanasi, India.
 6. **De Nirmal**, Singh KP and Rai M. (2004). Micronutrient in vegetables. IIVR, Technical Bulletin no. 22, pp 10, Varanasi, India.
 7. **De Nirmal**, Pandey S and Rai M. (2004). Cucurbits in kitchen garden. IIVR, Technical Bulletin no. 23, pp 10, Varanasi, India.
 8. **De Nirmal**, Singh B and Rai M. (2004). Physiological disorders in vegetable crops. IIVR, Technical Bulletin no. 24, pp 17, Varanasi, India.
 9. **De Nirmal**, Singh KP, Chaurasia SNS and Rai M. (2004). Sabjiyon mein akakrit poshak tatwa prabandhan. IIVR, Technical Bulletin no. 25, pp 38, Varanasi, India.
- De Nirmal**, Singh KP and Rai M. (2004). Underutilized vegetables. IIVR, Technical Bulletin no. 26, pp 34, Varanasi, India.