

Bio-Data

Dr. Mahendra Kumar Nayak, Assistant Professor (Agricultural Entomology)
JNKVV, College of Agriculture, Tikamgarh (M. P.)

Name of candidate : **Dr. Mahendra Kumar Nayak**
Father's Name : Late Shri –B. L. Nayak
Date of birth : 02-01-1970
Nationality : Indian
Language known : Hindi & English
Address for correspondence : Assistant Profesor Sr. Grade (Entomology)
JNKVV, College of Agriculture, Tikamgarh
(M. P.)-472001
Email: mknayak.tkg@gmail.com
Mobile: 09425451466

Academic qualification

Name of examination	Board / University	Year	Division	Subject
High School	Board of Secondary Education M.P.Bopal	1987	I	Math's Science Social science.
Higher Secondary	Board of Secondary Education, M. P. Bhopal	1989	I	Physics,Chem- istry &Math's
B. Sc. (Ag.)	College of Agriculture JNKVV, Rewa (M.P.)	1993- 1994	I	All Subject of B. Sc. (Ag.)
M. Sc. (Ag.)	College of Agriculture JNKVV, Jabalpur (M.P.)	1996- 1997	I	Agricultural Entomology
NET(National eligibility test	Agricultural Scientist Recruitment Board (ASRB) ICAR, New-Delhi	1999	Qualified	Agricultural Entomology
Ph.D.	Dr. B .R. Ambedkar University, Agra	2003	-	Zoology (Entomology)
PGDCA	AISECT Bhopal	1998- 1999	A (Grade)	-

Experience (Teaching and Research): 16 Years

- As SRF: 17.04.2000 to 31.03.2004
- As T. A.: 22.04.2004 to 24.01.2007
- As Assistant Professor/Scientist: 25.01.2007 to continue

Publication:

- Research paper published: 59
- Research Abstract Published: 54
- Popular Article: 78
- Seminar attended: 26
- TV & Radio talk: 24
- Training attended (21 days): 06
- Bulletin Published: 08

Project / Schemes being handled as co-investigator from the outside funding agencies:

- “Web enabled weather based decision support for forewarning and management of important pest-diseases of soybean and chickpea in Bundelkhand Agroclimatic zone Madhya Pradesh at Tikamgarh” vide order No.EEP/C-4(380)/2014-15/2292 dated 17.12.2014.

National Seminar: (As a Co-organizing Secretary)

- Organized a National Seminar on “Weather and climate risks in Agriculture under changing climate: Management and Mitigation” held from 12-13 March, 2015 at College of Agriculture, Tikamgarh (M.P.).

Training organized:

- 7 days training programme on “beekeeping” was organized at College of Agriculture, Tikamgarh during 16-22 February, 2009 with finance support of National bee board, New-Delhi. Five lectures were delivered by me in this training.
- 3 days training on “Entrepreneurship Development: Agriculture Based Small Scale Industries” was organized from 02-04 March, 2023 at College of Agriculture, Tikamgarh

Award/Honour:

- Best Teacher Award from JNKVV, Jabalpur during 2020-2021
- Received fellowship from society of Life science

Scholarship:

- ICAR merit scholarship during B. Sc. Ag. Period at JNKVV, College of Agriculture, Rewa
- Jindal trust scholarship during Post graduation at JNKVV, Jabalpur

Extra Curricular activities:

- NCC “C” certificate with the rank of sergeant at **JNKVV, College of Agriculture, Rewa.**
- NSS “B” certificate passed

Ph. D. Thesis: “Studies on the management of mustard aphid (*Lipaphis erysimi* Kalt.)

M. Sc. Thesis: “Succession of insect pest complex of cruciferous crops and their host preference”

List of Research paper published:

1. Shobharam Thakur, Shivratan and **M. K. Nayak***, Yogranjan and D. S. Tomar (2024). Sesame (*Sesamum indicum*) yield gap and economics analysis through front line demonstrations under rainfed conditions in Tikamgarh District of Bundelkhand zone of MP. *International Journal of Plant & Soil Science*, 36 (12) :436-441.
2. Shobhram Thakur, **M. K. Nayak**, Shiv Ratan, Manisha Shyam and Yogranjan (2023) The Impact of Various IPM Modules on the Management of Major Insect Pests of Sesame in Madhya Pradesh's Bundhelkhand Zone. *International Journal of Plant & Soil Science* 35 (1): 77-85.
3. Shobhram Thakur, **M. K. Nayak**, Shiv Ratan, Manisha Shyam, and Yogranjan (2023). Study of Genetic Improvement and Susceptibility in Relation to the Infestations of the Leaf Roller and Capsule Borer *Antigastra catalaunalis* (Duponchel). *International Journal of Plant & Soil Science* 35 (2): 36-44.
4. S. Abirami, **M.K. Nayak*** AND D.S. Tomar (2023). Efficacy of botanicals and bio-pesticides against shoot and fruit borer in Brinjal. *Annals of Plant and Soil Research* 25 (1): 84-92 (2023).
5. Shobharam Thakur, Shivratan and **M. K. Nayak*** (2022). Dissemination and impact assessment of improved technology scientific interventions through front line demonstrations sesame farmers of Tikamgarh, Bundelkhand region in Madhya Pradesh. *J. Oilseed Res.*, 39 (3 &4) Sep. & Dec. 2022.
6. H. Patidar, **M.K. Nayak*** and D.S. Tomar (2022). Seasonal Incidence of Defoliators and Girdle Beetle of Soybean (*Glycine max*) and its Correlation with Weather Factors. *Biological Forum – An International Journal* 14(3): 1330-1333.
7. SR Thakur, **MK Nayak** and Shiv Ratan (2022). Seasonal incidence of major insect pests of sesame with relation to weather parameters in Bundelkhand zone of Madhya Pradesh. *The Pharma Innovation Journal* 2022; 11(12): 1774-1776.
8. Arjun Panwar, **M K Nayak** and DS Tomar (2021). Population dynamics of major insect pests of soybean and their correlation with abiotic factors in Bundelkhand agroclimatic zone of M. P. *Journal of Entomology and Zoology Studies* 2021; 9(1): 1824-1827.
9. Abirami, S., NAYAK, M.K., Marabi R.S. and Tomar D.S. (2021). Seasonal incidence of major insect pests of brinjal (*Solanum melongena*) and their correlation with weather parameters. *Annals of Plant and Soil Research* 23 (4) : 452-457.
10. Patel R, Marabi R S, **Nayak M K**, Tomar D S and Srivastava A K (2021). Population dynamics of major sucking insect pests of mungbean [*Vigna radiata* (L.) Wilczek] in relation to weather parameters. *Journal of Entomology and Zoology Studies* 2021; 9(2): 324-328.
11. H. Patidar, M.K. Nayak and D.S. Tomar (2021). Seasonal Incidence of Stem Fly and Sucking Insect of Soybean (*Glycinemax*) and Their Correlation with Weather

Parameters. *TECHNOFAME- A Journal of Multidisciplinary Advance Research* 10 (2) : 75–79.

12. Shiv Ratan, Shobharam Thakur, **M. K. Nayak** and V. K. Singh (2021). Dissemination and Popularization of Improved Technology through Front Line Demonstrations among Sesame Farmers of Bundelkhand Region. *Int.J.Curr.Microbiol.App.Sci* 10(01): 2097-2101
13. D. S., Tomar, M. K., Nayak, and Shraddha, Karcho (2021). Distribution Pattern of Collar Rot of Chickpea in Bundelkhand of Madhya Pradesh. *TECHNOFAME- A Journal of Multidisciplinary Advance Research* 10 (2) : 69–74.
14. Shiv Ratan, U. K. Tiwari, **M. K. Nayak** and Shobharam Thakur (2020). Assessment of Relative Impact of Improved Technology and Scientific Interventions on the Income of Sesame Farmers in Tribal Area of Bundelkhand Region. *Int.J.Curr.Microbiol.App.Sci* 9 (7): 809-813.
15. D. S. Tomar., M. K. Nayak and R.S. Marabi (2020). Studies on disease incidence and intensity of Alternaria blight of Linseed in Tikamgarh and Nimari District of Madhya Pradesh. *Indian Journal of tropical biodiversity* 28 (1 &2): 78-82.
16. Arjun Panwar, **M. K. Nayak** and DS Tomar (2020). Efficacy of bio-pesticides along with plant product against the incidence of leaf eating caterpillar and stem borer in soybean. *Journal of Entomology and Zoology Studies* 8(1): 1136-1139.
17. Devkaran Patidar, **M. K. Nayak** and D.S. Tomar (2020). Efficacy of biopesticide and chemical insecticides against gram pod borer *Helicoverpa armigera*. *Annals of Plant and Soil Research* 22(1): 19-24.
18. Patel, R, Marabi, R.S., **Nayak, M. K.**, Tomar, D. S. and Singh, U. (2020). Effect of weather parameters on population dynamics of major defoliator insect pests of green gram (*Vigna radiata* (L.) Wilczek) *Journal of Entomology and Zoology Studies* 2020; 8(2): 163-168
19. Devkaran Patidar, **M. K. Nayak**, Sachin Kumar Jaiswal, Krishna Patel and Kamlesh Patel (2020). Seasonal variation of *H. armigera* population and their correlation with weather parameters under agro-climatic condition of Tikamgarh district, Madhya Pradesh. *International Archive of Applied Sciences and Technology* 11 (2) : 53-56.
20. S.R. Thakur, **M.K. Nayak** , Shiv Ratan and U.K. Tiwari (2019). Seasonal incidence of major insect pests of sesame with relation to weather parameters in Bundelkhand Zone of Madhya Pradesh. *Bull. Env. Pharmacol. Life Sci.* 8 (10)
21. Bharat Lal, N. S. Bhadauria and **M. K. Nayak** (2019). Biology and Bionomics of Tur Pod Bug, *Clavigralla gibbosa* (Spinola) on Variety- Saket under Laboratory Conditions in Gird Agri-climatic Region of Madhya Pradesh. *International Journal of Current Microbiology and Applied Sciences* 8 (10): 1660-1666
22. Poonam Manjhi, D.S.Tomar and **M. K. Nayak** (2019). Efficacy of botanicals and chemical fungicide on development of Alternaria blight of mustard (*Brassica juncea*) and their economics. *Annals of Plant and Soil Research* 21(4): 351-355.
23. Satendra Kumar Sharma, D. S. Tomar and **M. K. Nayak** (2019). Screening of fungicides, essential oil and plant extract against early blight of potato caused by *Alternaria solan*. *International Journal of Chemical Studies* 7(6): 1166-1170.
24. Sreenivasulu Ravi, D. S. Tomar and **M. K. Nayak** (2019). Distribution of Alternaria blight of tomato in Tikamgarh and Nimari District, Bundelkhand region of Madhya Pradesh. *Indian J of Trop Biodiv* 26 (2):31-35.

25. D. S. Tomar, Poonam Manjhi and **M. K. Nayak** (2019). Study of the effect of different doses of chemical fertilizers on the incidence and intensity of the Alternaria blight of mustard. *The Journal of Rural and Agricultural Research* Vol. 19 No. 2, 40-42.
26. Bharat Lal, **M K Nayak**, A K Srivastava and D S Tomar (2018). Seasonal incidence of major insect pests of mustard and their natural enemies. *International Journal of chemical studies* 6 (3) : 3658-3661 .
27. Poonam majhi, D. S. Tomar, A. K. Srivastav and **M. K. Nayak** (2018). Alternaria blight of mustard and its association with weather parameters. *Annals of plant and soil research* 20 (3) : 250-253
28. Atar Singh, D. S. Tomar, **M. K. Nayak** and Shraddha Karcho (2018). Standardization of time for growth/infection and search for resistance source in mustard cultivars against Alternaria brassicae. *The Journal of Rural and Agricultural Research* Vol. 18 (2) : 46-48
29. Bharat Lal, **M K Nayak**, D S Tomar and S R Thakur (2018). Efficacy of newer insecticides against mustard aphid, *Lipaphis erysimi* (Kalt.) in Indian mustard under Bundelkhand Agro climatic zone of Madhya Pradesh *Journal of Entomology and Zoology Studies* 6(6): 400-403
30. Vishal Mahajan, D. S. Tomar and **M. K. Nayak** (2017). Efficacy of fungicide for management of Alternaria blight of Linseed. *Ann. Pl. Protec. Sci.* 25 (2) : 358-361
31. Atar Singh, D. S. Tomar, **M. K. Nayak** and . A. K. Srivastava (2017). Screening of systemic and non systemic fungicides against Alternaria blight of mustard (Brassica juncea). *Annals of Plant and Soil Research* 19 (3) : 266-270.
32. S. S. yadav, M. K. Nayak , D. S. Tomar and A. K. Srivastava (2016). Efficacy of insecticide and plant product against the incidence of defoliators and stem borer in soybean. *National Journal of Life Science* Vol 13(1) :85-88
33. D. S. Tomar, P. P. Shastry and **M. K. Nayak** (2016). Morphological and histopathological studies of Myrothecium roridum on cotton. *J. Cotton Res. Dev.* 30 (1) 90-96 (January, 2016) 3..
M. K. Nayak, M.P. Gupta and D. S. Tomar and Yog ranjan (2015). Incidence and avoidable loss due to leaf roller/capsule borer. *Annals of Plant and Soil Research* 17 (2) :163-166.
34. Atar Singh, D. S. Tomar and M. K. Nayak (2016). Present status of Alternaria blight of mustard in Tikamgarh District of Bundelkhand , Madhya Pradesh. *Indian J Trop Biodiv*, 24 (2): 190-192.
35. A. K. Srivastava, **M. K. Nayak**, Yog ranjan, D. S. Tomar and kamlesh Gurjar (2015). Weather based prediction of chickpea *Helicoverpa armigera* population in Bundelkhand Agroclimatic zone of Madhya Pradesh. *Mausam*, 67, 2 :377-388.
36. M. K. Mishra, S. R. Thakur M. P. Gupta, R. S. Raikwar. and **M. K. Nayak** (2015). Evaluation of seed treatment and foliar spray of some insecticide for the management of leaf roller/capsule borer and bud fly. *Trends in Bioscience* 8(7): ISSN0974-8 1679-1682.
37. **M. K. Nayak**, M.P. Gupta and D. S. Tomar (2014). Screening of Linseed genotypes against bud fly and bud blight. *Ann. Pl. Protec. Sci.* 22 (1) : 155-158 (March, 2014).
38. S. S. Yadav, **M. K. Nayak**, A. K. Srivastava, M. P. Gupta and D. S. Tomar (2014). Population dynamics of insect defoliators of Soybean and correlation with weather parameters. *Ann. Pl. Protec. Sci.* 22 (1) : 208-209 (March, 2014).
39. **M. K. Nayak** and M.P. Gupta (2012). Testing of IPM module for the management of pod borer *Helicoverpa armigera* in chickpea. *Annals of Plant and Soil Research* 14 (2) 139-142.
40. **M. K. Nayak** (2012). Relative efficacy of different insecticide against mustard aphid under grid agro-climatic region of Madhya Pradesh. *Journal of Rural and Agricultural Research* Vol. 12 No. 2, 11-13.

41. Tomar, D. S., P. P. Shastri, **M. K. Nayak** and P. Sikarwar (2012). Effect of seed born mycoflora on cotton seed (JK-4) and their control. . *J. Cotton Res. Dev.* 26(1): 105-108
42. M. P. Gupta, A. K. srivastava and **M. K. Nayak** (2010) Development of weather based prediction model for leaf roller population of sesame in bundelkhand zone of Madhya. Paper published in, *Mausam, Journal, IMD, New-Delhi. MAUSAM*, 61, 2 (April 2010), 229-232
43. **M. K. Nayak** (2010). Population dynamics of major insect species of mustard (*Brassica compestris sariah*) towards weather parameters. *Journal of Rural and Agricultural Research* Vol. 10 No. 1. 19-21 (2010)
44. **M. K. Nayak** , A. K. Srivastava, M. P. Gupta, A. K. Sharma, D. S. Tomar and R. K. Pathak (2009). Effect of date of sowing on the aphid population and grain yield of mustard under gird agroclimatic condition of Madhya Pradesh. *J. oilseed Res.* Vol 26, 2009 pp-428-429.
45. M. P. Gupta, **M. K. Nayak** and A. K. Srivastava (2009). Studies on seasonal activity of white fly (*Bemisia tabaci genn.*) population and its association with weather parameters in Bundelkhand zone of Madhya Pradesh. Paper published in *journal of Agrometeorology* 11 (2) :175-179.
46. M. P. Gupta, **M. K. Nayak** and A. K. Sharma (2009). Efficacy of biopesticides against leaf roller/capsule borer and bud fly in sesame. *J. oilseed Res.* Vol 26 , 2009 pp-433-434.
47. A. K. Sharma, **M. K. Nayak** A. K. Srivastava, M. P. Gupta, and R. K. Pathak (2009). Evaluation of some newer insecticides against safflower aphid, *Uroleucon carthami* Hill Ris Lambers. *J. oilseed Res.* Vol 26 , 2009 pp-429-430.
48. D. S. Tomar, P. P. Shastri A. K. Srivastava, **M. K. Nayak** , and R. K. Pathak (2009). Effect of epidemiological factors on *Myrothecium roridum* of cotton. *J. oilseed Res.* Vol 26 , 2009 pp-440-441.
49. M. P. Gupta, **M. K. Nayak**, A. K. Sharma and R. S. Marabi (2008). Effect of spices as intercrops with chickpea (*Cicer arietinum*) on the incidence of pod borer (*Helicoverpa armigera*). *Indian Journal of Agricultural Science* 78 (10): 903-4, October, 2008.
50. R. P. Yadav, U. P. S. Bhadouria and **M. K. Nayak** (2007). Effect of yield on Black-gram, Pearl-millet, Mustard and Wheat crops by conducting front line demonstration. Paper published in *Bhartiya Krishi Anusandhan Patrika* 22 (4): 299-302, 2007.
51. M. L. Sharma, **M. K. Nayak** and S. S. Bhadouria (2004). Screening of newly developed black gram varieties against whitefly and yellow mosaic virus. *A Journal of IARI, New-Delhi Shashpa*, 11 91) : 71-74 (2004)
52. M.L. Sharma, **M.K. Nayak** and U.P. S. Bhadauria (2003). Gujhia weevil-A new menace to get potential yield of rapeseed mustard in northern madhya pradesh. *Ann. Pl. Soil Res Journal* 5 (1) : 102-103.
53. **M. K. Nayak**, M.L. Sharma, and U.P.S. Bhadauria (2002).Correlation studies among weather parameters, aphid and its parasitization. *Ann. Pl. Soil Res. Journal* 4 (2): 353-354.
54. M.L. Sharma, **M.K. Nayak** and U.P.S. Bhadauria (2002) Level of awareness of IPM strategy against mustard aphid in Gird zone of northern Madhaya Pradesh . *Ann. Pl. Soil Res. Journal* 4 (2) : 280-281
55. **M. K. Nayak**, O.P. Katiyar, , H.S. Yadav (2000). Host preference of major insect pest on cruciferous crop under natural condition at Jabalpur. *JNKVV Res. Journal* 34 (1&2) 77-80.

56. **M. K. Nayak**, O.P. Katiyar, H.S. Yadav and N. Shirivastava (2000). Seasonal abundance of aphid (*Lipaphis erisimi* Kalt.) on different host plant and extent of its parasitization under field condition. *JNKVV Res. Journal* 34 (1&2) 74-76.
57. **M. K. Nayak**, O.P. Katiyar, N. Shirivastava, H.S. Yadav and U. Goswami (1997). Succession of insect pest complex on cruciferous crop at Jabalpur. *JNKVV Res. Journal* 31 (1&2) : 49-51.
58. **M. K. Nayak**, Purshottam Meena and M.P. Gupta (2014). Efficacy of biopesticide and some new molecules against gram pod borer, *Helicoverpa armigera* (Hubner). *Journal of Environment Empowerment & Economics* Vol-I : 4-7.
59. **M. K. Nayak**, R. P. Yadav, Y. R. Khare and Moni Jadon (2002). Impact of front line demonstration for sustainable productivity of different crops under Gird agroclimatic zone. *A Journal of Social science humanities and science* 1 (1) : 41-42.

(B). Research Abstracts Published in National/International Seminar

1. **M. K. Nayak**, kamlesh Gurjar and D. S. Tomar (2015). Testing of some bio-pesticide and chemical pesticide against gram pod borer (*Helicoverpa armigera* Hubner). Published in National seminar on “weather and climate risks in Agriculture under changing climate: Management and Mitigation held from 12-13 March, 2015 pp-74.
2. K. Gurjar, **M. K. Nayak**, D. S. Tomar, A. K. Srivastava and M. P. Gupta (2015). Seasonal incidence of gram pod borer (*Helicoverpa armigera* Hubner) and their correlation with weather parameter. Published in National seminar on “weather and climate risks in Agriculture under changing climate: Management and Mitigation held from 12-13 March, 2015 pp-24.
3. S. R. Thakur, **M. K. Nayak** and M. P. Gupta (2015). Screening of uniform pest nursery entries of linseed against the incidence of bud fly (2015). Published in National seminar on “weather and climate risks in Agriculture under changing climate: Management and Mitigation held from 12-13 March, 2015 pp-77.
4. S. S. yadav, **M. K. Nayak**, D. S. Tomar and A. K. Srivastava (2015). Effect of different insecticides on larval population of tobacco caterpillar *Spodoptera litre* (Fabricius) in soybean. Published in National seminar on “weather and climate risks in Agriculture under changing climate: Management and Mitigation held from 12-13 March, 2015 pp-77.
5. D. S. Tomar, Atar Singh Holkar, **M. K. Nayak** and A. K. Srivastava (2015). Screening of mustard cultivars for source of resistance against *Alternaria blight*. Published in National seminar on “weather and climate risks in Agriculture under changing climate: Management and Mitigation held from 12-13 March, 2015 pp-60
6. Atar Singh Holkar, D. S. Tomar, , **M. K. Nayak** and R. K. Pathak (2015). Effect of date of sowing on *Alternaria blight* of mustard. Published in National seminar on “weather and climate risks in Agriculture under changing climate: Management and Mitigation held from 12-13 March, 2015 pp-26.
7. D. S. Tomar, M. K. Nayak, M. P. Gupta and R. K. Pathak (2014). Study on the avoidable losses due to leaf roller/capsule borer and bud fly in sesame. Published in national seminar on “Emerging trends in Green technology and Agricultural science” held on 14.11.2014 .
8. **M. K. Nayak**, P. Meena and M. P. Gupta (2014). Efficacy of biopesticides and some new molecules against gram pod borer, *Helicoverpa armigera* (Hubner). Published in Interface on management of economically important insects in India held on 16.08.2014 at JNKVV, Jabalpur (M.P.) pp-26
9. M. P. Gupta, M. K. Mishra, S. R. thakur, R. S. raikwar and **M. K. Nayak** (2014). Evaluation of seed treatment and foliar sprays of some insecticide for the management of leaf roller/capsule borer and bud fly. Published in Interface on Management of Economically important insects in india held on 16.08.2014 at JNKVV, Jabalpur pp-25.
10. **M. K. Nayak**, M. P. Gupta and D. S. Tomar (2013). Effect of intercropping on the

- incidence of leaf roller/ capsule borer in sesame. Abstract published in proceeding of 10th National Symposium On Biotechnological approaches for plant protection: Constraints and opportunities held at ICAR Research complex for Goa on 27-29 January, 2013 p100.
11. D. S. Tomar, R. K. Pathak and **M. K. Nayak** (2013). Management of sesame diseases through soil solarization and chemicals. Abstract published in proceeding of 10th National Symposium On Biotechnological approaches for plant protection: Constraints and opportunities held at ICAR Research complex for Goa on 27-29 January, 2013 p73.
 12. **M. K. Nayak**, M. P. Gupta and D. S. Tomar (2011). Extent of damage due to leaf roller/ capsule borer, *Antigastra catalaunalis* Dup. in sesame. Published in X Agricultural Science congress on Soil, Plant and animal health for enhanced and sustainable Agricultural productivity held on 10-12 February, 2011. organized by National Academy of Agriculture science in collaboration with NBFGR, IISR & CISH Lucknow. pp-293.
 13. R. K. Pathak, D. S. Tomar and **M. K. Nayak** (2011). Management of sesame diseases through botanicals. Published in X Agricultural Science congress on Soil, Plant and animal health for enhanced and sustainable Agricultural productivity held on 10-12 February, 2011. organized by National Academy of Agriculture science in collaboration with NBFGR, IISR & CISH Lucknow. Pp-186.
 14. **M. K. Nayak**, M. P. Gupta D. S. Tomar and P. K. Mishra (2011). Study on the avoidable losses due to leaf roller/ capsule borer in sesame. Published in national symposium on integrated farming system for sustainable Agriculture- challenges and opportunities. Held on February 19-21, 2011 organized by Institute of Agriculture science, Bundelkhand University Jhanshi. Pp-139.
 15. D. S. Tomar, R. K. Pathak, **M. K. Nayak**, and P. K. Mishra (2011). Economics of various spray schedule of Bavistin for controlling Myrothecium leaf blight in cotton. Published in national symposium on integrated farming system for sustainable Agriculture- challenges and opportunities. Held on February 19-21, 2011 organized by Institute of Agriculture science, Bundelkhand University Jhanshi. Pp-139.
 16. M. P. Gupta, **M. K. Nayak**, and P. K. Mishra (2011). Integrated management of linseed bud fly in Bundelkhand zone of Madhya pradesh. Published in national symposium on integrated farming system for sustainable Agriculture- challenges and opportunities. Held on February 19-21, 2011 organized by Institute of Agriculture science, Bundelkhand University Jhanshi. Pp-124.
 17. R. K. Pathak, D. S. Tomar, **M. K. Nayak**, and P. K. Mishra (2011). Evaluation plant products for management of sesame diseases and their economics. Published in national symposium on integrated farming system for sustainable Agriculture- challenges and opportunities. Held on February 19-21, 2011 organized by Institute of Agriculture science, Bundelkhand University Jhanshi. Pp-182.
 18. A. K. Srivastava, **M. K. Nayak** and K. K. Agrawal (2010). Impact of climate change on population dynamics of mustard aphid in central India . Published in souvenir International conference on Geophysical science held at BHU Varanasi, December 21-23, 2010 pp-184. Sovenir and abstract.
 19. **M. K. Nayak**, M. P. Gupta and D. S. Tomar (2010). Screening of linseed genotype against bud blight and bud fly. Published in 32nd National Conference & symposium on Innovations in plant Pathology Research and Human Resource Development held on Nov. 24-26, 2010. Organized by Junagadh Agriculture University, Junagadh. Pp-44.
 20. D. S. Tomar, R. K. S. Tomar and **M. K. Nayak** (2010). Study on the seed born mycoflora of cotton seed, their effect and chemical control. Published in 32nd National Conference & symposium on Innovations in plant Pathology Research and Human Resource Development held on Nov. 24-26, 2010. Organized by Junagadh Agriculture University, Junagadh. Pp-52.
 21. **M. K. Nayak** and D. S. Tomar (2010). Efficacy of different insecticide against mustard aphid under Gird Agrilclimatic region of Madhya pradesh. Published in national seminar on Agriculture and global warning: challenges and potential. Held on June 05-06, 2010. pp-95. organized by Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior.

22. D. S. Tomar, P. P. Shastry and **M. K. Nayak** (2010). Screening of *G. hirsutum* genotypes for fiber quality and bioic resistance. Published in national seminar on Agriculture and global warning: challenges and potential. Held on June 05-06, 2010. pp-94. organized by Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior.
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(M. K. Nayak)
Assistant Professor (Entomology)
College of Agriculture, Tikamgarh