

Profile of Dr S. Lenka

Name: Dr. Sangeeta Lenka

Designation: Scientist (SS)

Date of birth: 02/11/1974

Education: Ph.D. (Agricultural Physics)



Major Research area: Carbon sequestration, greenhouse gas mitigation strategies in Vertisols, Simulation modeling (Crop Syst, Century soil carbon model)

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Professional Experience:

Since my joining as Agricultural Research Scientist at Indian Council of Agricultural Research (ICAR), IISS, Bhopal. I have been heavily involved for more than seven years in development of greenhouse gas mitigation strategies in soybean-wheat systems of vertisols of central India. My areas of expertise is climate change mitigation strategies in agriculture especially soil carbon sequestration, crop growth simulation modeling, resource conservation technologies in agriculture. I have overseas experience (Colorado State University, Fort Collins, USA) of working in “Climate change, carbon sequestration and carbon trading” and am today involved in several challenging climate change projects. I am working as principal investigator or Co-PI in four projects all of which are centered on Climate Change impacts on soil and crop productivity, effects of tillage on soil organic carbon dynamics, quantifying GHGs emissions, modeling impacts of climate change, mitigation strategies, resilience of soils to organic carbon depletion.

Awards

- ✓ Young scientist award from Education Expo (EET CRS) 2nd Science and Technology Awards-2014

- ✓ Bharat Shiksha Ratan Award 2014, by Global Society for Health and Educational Growth, New Delhi.
- ✓ Jawaharlal Nehru Award for Postgraduate Agricultural Research for the year-2007 for outstanding research in the field of soil science, NRM and Agronomy.
- ✓ Soil Conservation Society of India “student fellowship award” for Ph.D dissertation-2006
- ✓ Gold medallist, Recipient of Chief Guest R. Chidambaram award for best student in securing highest marks in Remote Sensing and Isotopes in Agriculture.
- ✓ ICAR-Senior Research Fellowship in Ph. D
- ✓ ICAR- Junior Research Fellowship in M. Sc
- ✓ Indian Council of Agriculture Research Graduation fellowship
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Publication

1. Singh R.C., **Lenka S.**, Singh C.D. 2014. Conservation tillage and manure effect on soil aggregation, yield and energy requirement for wheat in vertisols. *Indian Journal of Agricultural Science*.84 (2):267-271
2. Sangeeta Lenka, A. K. Singh and N. K. Lenka (2014). Soil Aggregation And Organic Carbon As Affected By Different Irrigation And Nitrogen Levels In The Maize–Wheat Cropping System. *Experimental Agriculture*, 50, pp 216-228. doi:10.1017/S0014479713000501.
3. N. K. Lenka, Mandal D., **Lenka S.**, Sudhishri S. 2013. Soil Loss Tolerance Limits for different physiographic regions of Odisha. *Journal of Indian Society of Soil Science*. 61(4): 293-299.
4. **Sangeeta Lenka**, Anil Kumar Singh, Narendra Kumar Lenka. 2013. Soil water and nitrogen interaction effect on residual soil nitrate and crop nitrogen recovery under maize–wheat cropping system in the semi-arid region of northern India. *Agriculture, Ecosystems and Environment* 179: 108– 115.
5. Lenka N.K., Sudhishri, S., Dass A., Choudhury, P.R., **Lenka, S.**, Patnaik U.S. 2013. Soil carbon sequestration as affected by slope aspect under restoration treatments of a degraded alfisol in the Indian sub-tropics. *Geoderma*. 204–205: 102–110. doi.10.1016/j.geoderma.2013.04.009
6. **Lenka S.**, Lenka NK. 2012. Impact of Tropospheric Ozone on Agroecosystem: An Assessment. *Journal of Agricultural Physics*. 12:1-11
7. **Lenka, S.**, Singh, A. K. 2011. Simulating interactive effect of irrigation and nitrogen on crop yield and water productivity in maize–wheat cropping system. *Current Science*. 101(11):1451-1461.
8. **Lenka, S.**, Singh, A.K., Lenka, NK. 2009. Water and nitrogen interaction on soil profile water extraction and ET in maize-wheat cropping system. *Agricultural Water Management*. 96 (2); 195-207.

9. **Sangeeta mohanty**, Narendra Kumar Paikaray and A. Raja Rajan.2006. Availability and uptake of Phosphorus from organic manures in groundnut (*Arachis hypogea* L.)- Corn (*Zea mays* L.) sequence using radiotracer technique. Geoderma. 133: 225-230.
10. Lenka, NK, **S. Mohanty**, KK Singh and NVK Chakravarty. 2008. Performance evaluation of SPAW model with temperature derived ET₀ as input in place of pan evaporation. Journal of irrigation and Drainage Engineering (ASCE), 134 (6), 730-736.

(Note: Sangeeta Lenka and Sangeeta Mohanty is same person as surname changed after marriage from Mohanty to Lenka)