

Profile of Dr. NK Lenka



Name : Dr. Narendra Kumar Lenka

Designation : Principal Scientist (Soil Science : Soil Physics/SWC)

Education : M. Sc. (Ag. Physics), Ph.D. (Ag. Physics)

Major research areas : Soil resilience and soil health assessment, Climate change impacts on agriculture sector, restoration of degraded soils

E-mail : nklenka@rediffmail.com

Professional experience: Working as Scientist in ICAR since November, 2000

Awards :

USDA Norman E Borlaug fellowship

Associate Fellowship of the National Academy of Agricultural Sciences (NAAS)

Golden Jubilee Commemoration Young Scientist award of the Indian Society of Soil Science, New Delhi

Young Scientist award of the Indian Association of Soil and Water Conservationists, Dehradun

Selected publications

1. **Lenka NK**, D Mandal, S Sudhishri (2014) Permissible soil loss limits for different physiographic regions of West Bengal. *Current Science*, 106.
2. **Lenka NK**, D Mandal, S Lenka and S Sudhishri (2013) Soil loss tolerance limits for different physiographic regions of Odisha. *Journal of the Indian Society of Soil Science*, 61, 293-299.
3. **Lenka, NK**, S Sudhishri, Anchal Dass, PR Choudhury, Sangeeta Lenka and US Patnaik (2013) Soil carbon sequestration as affected by slope aspect under restoration treatments of a degraded alfisol in the Indian sub-tropics. *Geoderma*, 204, 102-110.
4. **Lenka, NK** and Rattan Lal (2013) Soil aggregation and greenhouse gas flux after 15 years of wheat straw and fertilizer management in a no-till system. *Soil and Tillage Research*, 126, 78-89.
5. **Lenka, NK**, A Dass, S Sudhishri, PR Choudhury and US Patnaik (2012) Soil carbon sequestration and erosion control potential of hedgerows and grass filter strips in sloping agricultural lands of eastern India. *Agriculture, Ecosystems & Environment*, 158, 31-40.

6. **Lenka, NK** and Rattan Lal (2012) Soil related constraints to the CO₂ fertilization effect. *Critical Reviews in Plant Sciences*, 31, 342-357.
7. **Lenka, NK**, PR Choudhury, S Sudhishri, A Dass and US Patnaik (2012) Soil aggregation, carbon build up and root zone soil moisture in degraded sloping lands under selected agroforestry based rehabilitation systems in eastern India, *Agriculture, Ecosystems & Environment*, 150, 54-62.
8. Dass, A., S Sudhishri, **NK Lenka** and US Patnaik (2011) Runoff capture through vegetative barriers and planting methodologies to reduce erosion and improve soil moisture, fertility and crop productivity in southern Orissa, India. *Nutrient cycling in Agroecosystems*, 89, 45-57.
9. **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 under wheat crop in a semi-arid sub tropical climate. *Journal of Irrigation and Drainage Engineering (American Society of Civil Engineering)*, 134, 730-736.
10. Sudhishri, S., A. Dass and **NK Lenka** (2008) Efficacy of vegetative barriers for rehabilitation of degraded hill slopes in eastern India. *Soil and Tillage Research*, 99, 98-107.