

Profile

Dr. Nisha Sahu



Designation: Scientist
Division of Environmental Soil Science
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Research specialization: Soil Chemistry/Fertility/Microbiology

Remote Sensing and GIS applications in Land Resource Inventory, Digital Terrain analysis, Land degradation mapping and assessment, design and development of Soil information systems and Soil Heavy Metal assessment

Professional Experience

Position held	Institution	Year
Scientist	ICAR-NAARM, Hyderabad	23 rd January, 2012 to 30 th April, 2012
Scientist	ICAR-National Bureau of Soil Survey and Land Use Planning, Amravati Road, Nagpur	1 st May, 2012 to 22 nd January, 2016
Scientist (Sr. Scale)	ICAR-National Bureau of Soil Survey and Land Use Planning, Amravati Road, Nagpur	23 rd January, 2016 to 29 th November, 2019
Scientist (Sr. Scale)	ICAR- Indian Institute of Soil Science, Nabibagh, Berasia Road, Bhopal	30 th November, 2019 to till date

Awards and Honours

University Merit Scholarship for B.Sc. (Ag.)	2003-2007
B.Sc. (Ag.) with Honour from ICAR-IGKV, Raipur (Chhattisgarh)	2007
BHU Gold Medal from ICAR-BHU, Varanasi (Uttar Pradesh)	2009
UGC/BHU Fellowship for Ph.D. Program	2009-2010
DST-INSPIRE Fellowship, New Delhi	2011
ICAR-ARS-2 nd Rank (Soil Chemistry/ Fertility/ Microbiology)	2011
Bharat Jyoti Award	2016
Young Scientist Award	2019

Top Ten publications

- Singh UB, Sahu Asha, **Sahu Nisha**, Singh, Bhanu P, Singh RK, Renu, Singh DP, Jaiswal, RK, Sarma BK, Singh HB, Manna MC, Rao Subba A, Prasad Rajendra S (2013) Can endophytic *Arthrobotrys oligospora* modulate accumulation of defence related biomolecules and induced systemic resistance in tomato (*Lycopersicon esculentum* Mill.) against root knot disease caused by *Meloidogyne incognita*. *Applied Soil Ecology*. 63:45-56.
- **Sahu, N.**, Raha, P., Sahu, A. and Singh, U.B. (2014) Effect of acephate on respiration, microbial biomas and fluorescein diacetate-hydrolysing activity in alluvial soil (Typic Ustochrepts). *Pollution Research* 33 (4): 757-760.
- **Sahu, N.**, Obireddy, G.P., Kumar, N., Nagaraju, M.S.S., Srivastava, R. and Singh, S.K. (2014) Characterization of Landforms and Land Use/Land Cover in Basaltic Terrain using IRS-P6 LISS-IV and Cartosat-1 DEM data: A Case Study. *Agropedology* 24(2): 166-178.
- **Sahu, N.**, Obireddy, G.P., Kumar, N. and Nagaraju, M.S.S. (2015) High resolution remote sensing, GPS and GIS in soil resource mapping and characterization- A Review. *Agricultural Reviews* 36(1): 14-25.
- **Nisha Sahu**, S.K. Singh, G.P. Obi Reddy, Nirmal Kumar, M.S.S. Nagaraju and Rajeev Srivastava (2016). Large-Scale Soil Resource Mapping using IRS-P6 LISS-IV and Cartosat-1 DEM in Basaltic Terrain of Central India. *Journal of Indian Society of Remote Sensing* 44(5): 811-819.
- **Nisha Sahu** and Asha Sahu (2016) Influence of Phosphamidon on Microbial Biomass Carbon, FDA and Soil Respiration in Black Soil (Entic Chromusterts). *Int. Journal Agril. Sciences*, 8 (39): 1796-1798.
- Duraisamy Vasu, S.K. Singh, **Nisha Sahu**, Pramod Tiwary, P. Chandran, V.P. Duraisami, V. Ramamurthy, M. Lalitha, B. Kalaiselvi (2017) Assessment of spatial variability of soil properties using geospatial techniques for farm level nutrient management. *Soil & Tillage Research*, 169: 25-34.
- **Nisha Sahu**, G.P. ObiReddy, Nirmal Kumar, M.S.S. Nagaraju, Rajeev Srivastava and S.K. Singh (2017). Morphometric Analysis in Basaltic Terrain of Central India using GIS Techniques: A Case Study. *Appl. Water Sci.* 7(5): 2493-2499. DOI 10.1007/s13201-016-0442-z.
- Obi Reddy, GP, Nirmal Kumar, **Sahu Nisha**, Singh, SK (2018) Evaluation of automatic drainage extraction thresholds using ASTER GDEM and Cartosat-1 DEM: A case study from basaltic terrain of Central India. *The Egyptian Journal of Remote Sensing and Space Science* 21(1): 95-104.
- **Nisha Sahu**, G.P. Obi Reddy, Nirmal Kumar, M.S.S. Nagaraju, Rajeev Srivastava and S.K. Singh (2020) Spatial variability of Soil Macronutrients on Basaltic landscape of Central India: A Geostatistical approach. *Chemical Science Review and Letters* 9(33): 77-86.