

Bio-data



Name	Dr. Meenakshi Nandal	
Date of Birth	9th September, 1975	
Designation	Prof. & Head of the department	
Nature of appointment	Regular	
Faculty	Environmental Science	
Department/Centre/Institute	Department of Environmental Sciences, M.D. University, Rohtak-124001 (Haryana)	
Date of Joining in the University	20th August 2008	
Date of Retirement	30th September 2035	
Contact Details	Mobile No.	9416380668
	Email id	meenakshi.env.sc@mdurohtak.ac.in

1. Educational Qualifications (10th and onwards)

S. No.	Degree/ Certificate	Board / University	Passing year
1.	Ph.D.	MDU	2003
2.	M.Sc.	MDU	1998
3.	B.Sc.	MDU	1996
4.	12 th	MDU	1993
5.	10 th	CBSE	1991

2. Teaching/Research experience

S. No.	Post	Name of Institution	Period	
			From	To
1.	Professor	M.D.U., Rohtak	2023	till date
2.	Associate Professor	M.D.U., Rohtak	2020	2023
3.	Assistant Professor	M.D.U., Rohtak	2008	2020

3. Details of Research Achievements

h-index (Google/SCOPUS)	13
Google Scholar link	https://scholar.google.com/citations?hl=en&user=W_6sZRQAAAAAJ&view_op=list_works&sortby=pubdate
ORCID ID (if any)	0000-0002-2926-0418
LinkedIn ID (if any)	
Scopus ID	56560290300
Any other	

S. No.	Year	Particulars / Details	Link to Article	Impact Factor (if any)
1.	2026	Chowdhry, J., Kumari, S., Patel, P. K., Garg, M. C., & Nandal, M. (2026). Fe-modified rice straw biochar for efficient nitrate removal: advancing sustainable water treatment technologies. <i>Chemical Papers</i> , 1-20.	https://link.springer.com/article/10.1007/s11696-026-05427-8	2.7
2.	2026	Kataria, K., Chowdhry, J., Beniwal, A., & Nandal, M. (2026). Sustainable methylene blue adsorption using lignocellulosic biochar with mechanistic isotherm, kinetics, thermodynamic and error insights. <i>International Journal of Environmental Science and Technology</i> , 23(9), 571.	https://link.springer.com/article/10.1007/s13762-026-07367-y	3.4
3.	2026	Jakhar, M., Nandal, M. , & Laura, J. S. (2026). A GIS Based Spatio-Temporal Analysis of Air Quality Index Across Diverse Land-Use Zones in Rohtak City, India. <i>Current World Environment</i> , 21(1), 194.	https://www.researchgate.net/profile/Moni-Jakhar/publication/404809215_A_GIS_Based_Spatio-Temporal_Analysis_of_Air_Quality_Index_Across_Diverse_Land-Use_Zones_in_Rohtak_City_India/links/6a073a95e48e8125fa38ec51/A-GIS-Based-Spatio-Temporal-Analysis-of-Air-Quality-Index-Across-Diverse-Land-Use-Zones-in-Rohtak-City-India.pdf	--
4.	2025	Chowdhry, J., Kumari, S., & Nandal, M. (2025). Transforming agro-waste to sustainable biochar for removal of nitrate from wastewater using response surface methodology. <i>International Journal of Environmental Research</i> , 19(5), 202.	https://link.springer.com/article/10.1007/s41742-025-00870-z	4.3
5.	2025	Chowdhry, J., Kataria, K., Khyalia, P., Laura, J. S., & Nandal, M. (2025). Adsorptive removal of crystal violet dye using biochar synthesised from agriculture residue: A sustainable study. <i>Pollution</i> , 11(4), 1306-1320.	https://ipoll.ut.ac.ir/article_103802_3d659593f05bdf78180394349428689f.pdf	1.1

S. No.	Year	Particulars / Details	Link to Article	Impact Factor (if any)
6.	2024	Rastogi, M., Nandal, M. , & Nain, L. (2024). Tailoring the compost matrix with hybrid Bacillus commune to improve the biodegradation of municipal solid waste. International Journal of Environmental Science and Technology, 21(2), 1447–1466.	https://www.researchgate.net/publication/371744864_Tailoring_the_compost_matrix_with_hybrid_Bacillus_commune_to_improve_the_biodegradation_of_municipal_solid_waste	3.5
7.	2024	Khyalia, P., Laura, J. S., Khosla, B., Sahoo, S. K., Tiwari, S. N., & Nandal, M. (2024). Analysis of effective equivalent dose to the organs and cancer risk assessment due to natural outdoor gamma radiation in Eastern Thar Desert, India. International Journal of Environmental Analytical Chemistry, 104(17), 5876–5888.	https://www.researchgate.net/publication/364484518_Analysis_of_effective_equivalent_dose_to_the_organs_and_cancer_risk_assessment_due_to_natural_outdoor_gamma_radiation_in_Eastern_Thar_Desert_India	2.8
8.	2023	Khyalia, P., Jugiani, H., Dangi, J., Laura, J. S., & Nandal, M. (2023). A Comprehensive Review on the Techniques and Indexes Used for the Analysis of Fluorosis in Humans and Cattle. Oriental Journal of Chemistry, 39(5).	http://dx.doi.org/10.13005/ojc/390505	0.7
9.	2023	Rastogi, M., Nandal, M. , & Nain, L. (2023). Tailoring the compost matrix with hybrid Bacillus commune to improve the biodegradation of municipal solid waste. International Journal of Environmental Science and Technology, 1–20.	(PDF) Tailoring the compost matrix with hybrid Bacillus commune to improve the biodegradation of municipal solid waste	3.5
10.	2022	Nandal, M. , Khyalia, P., Ghalawat, A., Jugiani, H., Kaur, M., & Laura, J. S. (2022). Review on the use of Microalgae Biomass for Bioplastics Synthesis: A Sustainable and Green approach to control Plastic Pollution. Pollution, 8(3), 844–859.	https://www.researchgate.net/publication/360931323_Review_on_the_use_of_Microalgae_Biomass_for_Bioplastics_Synthesis_A_Sustainable_and_Green_approach_to_control_Plastic_Pollution	1.1
11.	2022	Khyalia, P., Dangi, J., Barapatre, S., Dhania, G., Laura, J. S., & Nandal, M. (2022). Comparative Analysis of Compost Quality Produced from Fungal Consortia and Rice Straw by Varying C/N Ratio and its Effect on Germination of Vigna radiata. Nature Environment and Pollution Technology.	https://neptjournal.com/upload-images/(29)B-3873.pdf	--
12.	2022	Barapatre, S., & Nandal, M. (2022). Impact of composted Rice Straw on Solanum lycopersicum growth stimulation. Indian Journal of Environmental Protection, 42(1), 33–38.	https://www.e-ijep.co.in/42-1-33-38/	--
13.	2022	Khyalia, P., Laura, J. S., Khosla, B., Sahoo, S. K., Tiwari, S. N., & Nandal, M. (2022). Analysis of	http://doi.org/10.1080/03067319.2022.2130692	2.8

S. No.	Year	Particulars / Details	Link to Article	Impact Factor (if any)
		effective equivalent dose to the organs and cancer risk assessment due to natural outdoor gamma radiation in Eastern Thar Desert, India. International Journal of Environmental Analytical Chemistry.		
14.	2020	Barapatre, S., Rastogi, M., Khosla, B., & Nandal, M. (2020). Synergistic Effect of Fungal Consortia and C/N Ratio Variation on Rice Straw Degradation. Nature Environment & Pollution Technology, 19.	https://www.researchgate.net/publication/348274490_Synergistic_Effect_of_Fungal_Consortia_and_CN_Ratio_Variation_on_Rice_Staw_Degradation	--
15.	2020	Rastogi, M., Nandal, M. , & Khosla, B. (2020). Microbes as vital additives for solid waste composting. Heliyon, 6(2), e03343.	https://www.sciencedirect.com/science/article/pii/S2405844020301882	3.6
16.	2019	Rastogi, M., Nandal, M. , & Nain, L. (2019). Additive effect of cow dung slurry and cellulolytic bacterial inoculation on humic fractions during composting of municipal solid waste. International Journal of Recycling of Organic Waste in Agriculture, 8(3), 325–332.	https://link.springer.com/article/10.1007/s40093-019-0277-3	0.9
17.	2019	Mansi Rastogi, Meenakshi Nandal , Lata Nain (2019). Seasonal variation induced stability of municipal solid waste compost: an enzyme kinetics study. SN Applied Science. 1:849.	https://link.springer.com/article/10.1007/s42452-019-0889-2	3.3
18.	2018	Mansi Rastogi, Meenakshi Nandal , Sheetal Barapatre, Savita (2018). Spectroscopic evaluation of Temperature affecting humification and maturity of MSW composting. International Journal of Research in Advent Technology, Vol.6, No.5.	https://ijrat.org/downloads/Vol-6/may-2018/paper%20ID-64201859.pdf	3.2
19.	2017	Meenakshi Nandal , J.P Yadav and Mansi Rastogi (2017). Effect of Industrial Effluents on Mineral Uptake of Two Rabi crops (Triticum aestivum and Raphanus sativus), Nature Environment and Pollution Technology. Vol. 16(2): xx-xx.	https://www.neptjournal.com/upload-images/NL-60-29-(27)B-3426com.pdf	--
20.	2016	Mansi Rastogi, Rajesh Kumar Lohchab and Meenakshi Nandal (2016). Efficacy of leachate recirculation on municipal solid waste stabilization in a bioreactor. Annals of Agri-Bio Research, 21(2): 124–129.	https://www.researchgate.net/publication/311694140_Efficacy_of_Leachate_Recirculation_on_Municipal_Solid_Waste_Stabilization_in_a_Bioreactor	--
21.	2016	Meenakshi Nandal , Pragya Mahajan, Rajni Hooda (2016). Effect of PGPR on catalase activity of Indian mustard under saline stress. Int. J. of	https://ijpar.com/ijpar/issue/view/32	--

S. No.	Year	Particulars / Details	Link to Article	Impact Factor (if any)
		Pharmacy and Analytical Research Vol-5(1) 01–09.		
22.	2015	Nandal Meenakshi , Solanki Pooja, Rastogi Mansi and Hooda Rajni (2015). Bioremediation: A sustainable tool for environmental management of oily sludge. Nature environment and pollution technology Vol.14(1).	https://neptjournal.com/upload-images/NL-51-34-(32)B-3069.pdf	--
23.	2014	Nandal Meenakshi , Hooda Rajni and Geeta Dhania (2014). Tea Wastes as a Sorbent for Removal of Heavy Metals from wastewater. International Journal of Current Engineering and Technology. Vol.4(1) 243–247.	https://www.researchgate.net/publication/334964858_Tea_Wastes_as_a_Sorbent_for_Removal_of_Heavy_Metals_from_wastewater	--
24.	2014	Rastogi Mansi, Hooda Rajni and Nandal Meenakshi (2014). Review on anaerobic treatment of municipal solid waste with leachate recirculation. International journal of plant animal and environmental sciences. Vol.4(4), 110–117.	https://fortunejournals.org/ojs/index.php/jpaif/article/view/20210	--
25.	2013	Nandal Meenakshi and Hooda Rajni (2013). Salt tolerance and physiological response of plants to salinity: A Review. International Journal of scientific engg and research, (10) 44–67.	---	--
26.	2013	Nandal Meenakshi and Hooda Rajni (2013). Plant Growth Promoting Rhizobacteria. A Review Article. International Journal of Current Research. 5(12) 3863–3871.	---	--
27.	2007	Yadav JP, Meenakshi (2007). Impact of Om Surgical Effluent on germination seedling growth and yield of selected crops. J Ecotoxicol Environ Monit 17(2): 151–8.	---	--

4. Research & consultancy Projects

S. No.	Year	Details	Status
1	1.5.09 to 1.05.12	Resistance of environmental stress in tropical drosophilids: analysis of multi trade associated across seasons and geographical regions (Funding agency: UGC; Grant/Amount mobilized: Rs. 11,77,300.00)	Completed
2	2 years	Major project on “Spatial Distribution of Uranium in Ground & Drinking water in Bikaner and Nagaur Districts of Rajasthan” (Funding agency: Board of Research in Nuclear Sciences (BRNS); Grant/Amount mobilized: Rs. 27,51,800/-)	Completed
3	1 year	Minor Research Project: Composting and Physico-Chemical Analysis of Rice Straw (Funding agency: RK Fund; Grant/Amount mobilized: Rs. 50,000/-)	Completed

5. Research Supervision Overview

S. No.	Level	Degree Awarded	Thesis Submitted
1	Ph.D.	5	6 (ongoing/thesis pursuing)
2	P.G.	40	Approx. 40 (dissertation guided)
3	U.G.	NA	NA

Note: Ph.D. – based on 9 scholars listed in source biodata (4 degree awarded, 5 pursuing). P.G. – approx. 40 dissertation students guided (topics: salinity stress, physicochemical analysis of soil & solid waste, groundwater analysis, agrowaste composting, biochar application, etc.).

6. Patents/technology developed

Year	Particulars / Details	Published/Granted

7. Honors & Awards

S. No.	Title of Award	Awarding Agency	Particulars / Details
1	Young Women Scientist Award	Indian Society of Genetics, Biotechnology, Research & Development, Agra	National seminar on “Biotechnology: Resource Management for Sustainable Nature In 21st Century”, April 22–23, 2017
2	Women Scientist Award	Gujarat Natural Farming and Science University, Anand Hindustan Agricultural Research Welfare Society and IIMTU, Meerut	International Agriculture Conference on “Natural Vs Organic Farming: In Context to Bhartiya Agriculture”, 24–26 December 2023

8. Details as Resource person (Seminar / Conference / Lectures delivered etc.)

S. No.	Details	Number in total	
		National	International
A.	Seminar	2	2
b.	Conference	1	-
c.	Workshops	-	-
d.	Any other (Symposia, etc.) Refresher course	1	-

9. Membership details of Statutory Committees of this University

S. No.	Period	Particulars / Details
1.	November 2024 till date	Departmental Coordinator for UG Course and Value-Added Course

S. No.	Period	Particulars / Details
2.	Session 2022–23	Deputy Coordinator for Certificate Course in “Waste Management: Challenges and Opportunities”
3.	2023 till date	Member, Faculty of Life Sciences, Maharshi Dayanand University, Rohtak
4.	2024 till date	Member, PG Board of studies in Environmental Sciences, Maharshi

10. Any other Achievements:

Edited Book

S. No.	Particulars / Details
1	Meenakshi Nandal , Geeta Dhanias and Pradeep Khyalia, “Environmental Sustainability: Emerging concern and management”, Indu Book Services Pvt. Ltd. (2023)
2	Meenakshi Nandal , Geeta Dhanias, Sushila Saini and Pradeep Khyalia, “Handbook of Industrial Wastewater Treatment: Emerging Technologies for Sustainability”, Agri Biovet Press (2023)
3	Meenakshi Nandal , Sushila Saini and Geeta Dhanias, “Water Pollution and its Analytical Approaches: A Sustainable Water Quality Management” ISBN:978-93-6729-706-3,2026. Publisher: Indu Book Services Pvt. Ltd., New Delhi. 28th Jan. 2026.
4	Pradeep Khyalia, Manoj Kumar Jindal, Meenakshi Nandal , “Natural Gamma Radiation: Sources, Devices and Measurement, Detection, Usefulness, and Hazards”. Springer Nature (2026)

Book chapters

S. No.	Particulars / Details
1.	Chowdhry, J., Kumari, S., & Nandal, M. (2024). Innovations in Nutrient Removal and Resource Recovery Through Artificial Intelligence Techniques. In The AI Cleanse: Transforming Wastewater Treatment Through Artificial Intelligence (pp. 201–221). Springer Nature Switzerland.
2.	Khyalia, P., Duhan, S. S., Laura, J. S., & Nandal, M. (2024). A comprehensive analysis of fluoride contamination in groundwater of rural area with special focus on India. In Water Resources Management for Rural Development (pp. 201–212). Elsevier.
3.	Book Chapter: Jakhar, M., Laura, J. S., & Nandal, M. (2023). Nanofiltration Membrane Techniques for Heavy Metal Separation. In Modern Nanotechnology: Volume 1: Environmental Sustainability and Remediation (pp. 301–327). Springer International Publishing.
4.	Rastogi, M., & Nandal, M. (2020). Toxic metals in industrial wastewaters and phytoremediation using aquatic macrophytes for environmental pollution control: an eco-remedial approach. In Bioremediation of Industrial Waste for Environmental Safety (pp. 257–282). Springer, Singapore.
5.	Saini, S., Nandal, M. , & Bahamnia, G. D. (2020). Effective and sustainable solid waste management in India: A challenge. In Microbial Technology for Health and Environment (pp. 267–287). Springer, Singapore.
6.	Rastogi, Mansi and Meenakshi Nandal (2018). Composting an Emerging Technology for Solid Waste Management in India, Handbook of Research on Microbial Tools for Environmental Waste Management, Chapter 6, 105–126, IGI Global.

7.	Rastogi, Mansi and Meenakshi Nandal (2018). Bioremediation of Industrial Waste for Environmental Safety – Volume II: Biological Agents and Methods for Industrial Waste Management, 780, Springer Singapore.
8.	Mansi Rastogi and Meenakshi Nandal (ed. 1) (2017). Uranium Radionuclides Contamination in Environment, their Ecotoxicological Effects, Health Hazards and Bioremediation, Environmental Pollutants and their Bioremediation Approaches, Chapter 4, 103–126, CRC Press.
9.	Meenakshi Nandal and Mansi Rastogi (2017-18). Composting: A Sustainable Approach for Agriculture, Climate Change and Environmental Degradation, Chapter 3, 9–13.

Development of MOOCs/e-content

S. No.	Particulars / Details
1.	Development of MOOCs/e-content in 4 quadrants, 20 modules – e-Content for ePG Pathshala (P-10, Environmental pollution: Water & Soil). Link: https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvq9yUM2ILDrJ07FvIArQ==

Life membership

S. No.	Particulars / Details
1.	Life member of “The Society for Science of Climate Change and Sustainable Environment” (SSCE)
2.	Life member of Association of Microbiologists of India
3.	Life member of Indian Society of Genetics, Biotechnology, Research & Development, Agra
4.	Life member of Indian Science Congress, Rohtak Chapter