

### CV of Dr Shalini A Tandon

**Principal Scientist**

**Email :s [tdandon@neeri.res.in](mailto:tdandon@neeri.res.in), [tdandon.shalini@gmail.com](mailto:tdandon.shalini@gmail.com)**

**Published 43 papers in international journals and in national refereed journals.**

**Published several technical reports on research/consultancy conducted for government agencies and private industries.**

**1999 Doctorate in Environmental Sciences (Indian Agricultural Research Institute, New Delhi, India) with OGPA (Overall Grade Point Average) of 4.00 out of a maximum grade point of 4.00**

**1995 Masters in Environmental Sciences (Indian Agricultural Research Institute, New Delhi, India) with an OGPA of 3.97 out of a maximum grade point of 4.00**

#### *Post Graduate Research*

**1. Biodegradation of soil and water ecosystems polluted with alpha and beta isomers of endosulphan and endosulphan sulphate ( Ph.D. Thesis ).**

**2. Studies on methane emission as influenced by different rice cultivars ( M.Sc. Thesis).**

#### *Academic awards/honours.*

- 1. Merit Scholarship of University of Delhi, India** for standing First in the University.
- 2. Recipient of IARI Merit Gold Medal** for outstanding academic performance in post graduate work.
- 3. Awarded Junior Research Fellowship** of the **Indian Council of Agricultural Research (ICAR)** on the basis of competitive examination held countrywide for pursuing Master's programme in Environmental Sciences.
- 4. Awarded University Grants Commission Fellowship (UGC)** for Doctoral work in Environmental Sciences (1996)
- 5. Pradeep Memorial Award** for outstanding work in Environmental Sciences and recipient of the Environmental Protection Award 2003 in the area of environmental education and awareness.
- 6. Young Scientists Award (2005)** of the National Academy of Agricultural Sciences in the area of **Soil, Water & Environment. Projects**

#### **Current Projects**

**Water and waste water monitoring and remediation projects including impact on health and Antibiotic Resistant Bacteria.**

#### **List of Research Papers published by Dr. Shalini A. Tandon /Shalini Singh (maiden name)**

- 1. Shalini Singh**, Sushil Kumar and M.C. Jain (1997). Methane emission from two Indian soils planted with different rice cultivars. *Biol. Fertil. Soils*. 25: 285-289.
- 2. Shalini Singh**, P. Dureja, Sushil Kumar and M.C. Jain (1999). Persistence of alpha and beta isomers of endosulphan and endosulphan sulphate in diverse Indian Soils as influenced by flooding. *J. Environ. Sci. Health. B* 34(6): 965-975.
- 3. Shalini Singh**, P. Dureja, and Sushil Kumar (2000). Biodegradation of alpha and beta isomers of endosulphan and endosulphan sulphate in soils of India. *J. Environ. Sci. Health B* 35(3): 337-346.

4. H. Pathak, Arti Bhatia, Shiv Prasad, **Shalini Singh**, S. Kumar, M.C. Jain and U. Kumar (2001). Emission of nitrous oxide from rice wheat systems of indo gangetic plains of India. *Environmental Monitoring and Assessment*. 77: 163-178.
5. **Shalini Singh**, S. Kumar, M.C. Jain and D.Kumar (2001). Increased biogas production by using microbial stimulants. *Biores. Technol.* 78(3): 313-316.
6. **Shalini Singh**, P. Dureja, and Sushil Kumar (2001). Assessment of the role of environmental factors (pH and microbes) on the dissipation of alpha and beta isomers of endosulphan and endosulphan sulphate in river water. *Indian Journal Occupational Health* 44(1): 1-5
7. **Shalini Singh**, S. Kumar, P Dureja and N Sethunathan (2001) Effect of technical endosulphan and its two isomers on nitrous oxide emission from alluvial soil. *Research J. Chem. Environ.* 5: 21-24
8. Monica Rastogi, **Shalini Singh** and H. Pathak (2002) A review on 'Emission of carbon dioxide from soil'. M. Rastogi,. *Current Science* 82(5): 101-108.
9. H. Pathak, **Shalini Singh**, S. Prasad, Arti Bhatia, S. Kumar, M.C. Jain and U Kumar (2003). Emission of methane from rice wheat systems of Indogangetic plains in relation to irrigation, farmyard manure and dicyandiamide application. *Agric.Ecosys.Environ* 97: 309-316.
10. H. Pathak, Arti Bhatia, Shiv Prasad, **Shalini Singh**, S. Kumar, M.C. Jain and P. Singh (2003). Effect of DCD, FYM and moisture regime on nitrous emission from an alluvial soil in rice-wheat cropping system. *J. Indian Soc. Soil Sci.* 51: 139-144.
11. **Shalini S. Tandon**, P. P Srivastava, S.C. Mukherjee and N. Saharan (2005) Acute toxicity of synthetic pyrethroids to Indian major Carp. *Catla catla L. Bull. Environ. Contam. Toxicol* 74 (3).613-616
12. **Shalini S. Tandon**, P.P. Srivastava, S.C. Mukherjee and N.Saharan (2005) Studies on the toxicity of synthetic pyrethroids; cypermethrin deltamethrin and fenvalerate to Indian major Carp. *Catla Catla L. J of Aq Biol*
13. Pathak,H.,Mohanty S.,Patra,A.K. and **Shalini Singh Tandon** (2008) Environmental Change and Biodiversity in India. In *Biodiversity for Sustainable Development*(Singh,N.P. and Chhonkar,P.K. Eds.)Publ: Asian Society for Entrepreneurship Education Development, New Delhi pp.195-222.
14. **Shalini Tandon**, Mangesh Inarkar and (2010) Rakesh Kumar Wetland Treatment (HSSP) of wastewater from a Milk-Processing Unit using *Bambusa vulgaris*, *Typha latifolia* and *Cyperus rotundus*, *Journal of Environ. Sci. and Engg* 52 (1) 23-26
15. Avick Sil, Kanchan Wakadikar, Sunil Kumar, Sivagami S.P.M, **Shalini Tandon**, Shivani Dhage and Rakesh Kumar (2010).Probability of Aluminium Toxicity from Bhandup Complex Water Treatment Plant, Mumbai: A Case Study. *ASCE Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* 1, 37 doi:10.1061/(ASCE)HZ.1944-8376.0000064
16. Kanchan Wakadikar, Avik Sil, Niranjana Kolkar, **Shalini Tandon** & Rakesh Kumar Effect of non-aqueous drilling fluid and its synthetic base oil on soil health as indicated by its dehydrogenase activity *Environmental Earth Sciences: Volume 64, Issue 1 (2011), Page 25-28*
17. Avick Sil,1 Kanchan Wakadikar,1 Sunil Kumar,2 S. Satheesh Babu,3 S. P. M. Sivagami,1**Shalini Tandon**,1 Rakesh Kumar,1 and Patrick Hettiaratchi4 Toxicity Characteristics of Drilling Mud and Its Effect on Aquatic Fish Populations *Journal of Hazardous, Toxic, and Radioactive Waste*http://dx.doi.org/10.1061/(ASCE)HZ.2153-5515.0000092
18. **Tandon Shalini A.**, Kumar Rakesh, Dureja Prem (2011) Effect of Fipronil on Dehydrogenase Activity in Diverse Soil Types *Pesticide Research Journal* 23(1) :41-44.
19. Prachi A. Nimkar, Niranjana Kolkar, **Shalini A. Tandon\***, Rakesh Kumar (2011) Methane emission potential and increased efficiency of a phytoremediation system bioaugmented with *bacillus firmus* xjsl 1-10, *International Journal of Phytoremdiation* vol 14 Issue 9: 845-853
20. 20 **Shalini A TANDON**, RAKESH kumar, rupneet bajwa, suman yadav (2014) PHYTOREMEDIATION OF FLUOROQUINOLONE GROUP OF ANTIBIOTICS FROM WASTE WATER, *Natural Science* Vol.5, No.12A special issue.2014
21. **Shalini A Tandon** , Niranjana Kolkar and Rakesh Kumar Water and Energy footprint assessment of Bottled Water Industries in India (2014) *Natural Resource (SRP)* 5, 68-72

22. **Shalini A Tandon**, Hrishikesh Badrike, Umesh Kakde, Rakesh Kumar (2014 ) Enhancement in Phytoremediation of Municipal Waste Water by Genetically modifying Wetland and Non-wetland plant species (non-edible)Global Journal of Biosciences and Biotechnology Vol 3(4) 359-364.
23. **Shalini Tandon**, Srushty Parsana,Rakesh Kumar (2015) Auxin treatment for enhancement of phytoremediation efficiency to treat municipal Journal of Scientific and Industrial Research 74:702-707
24. Asheesh Srivastava, **Shalini A Tandon** & Rakesh Kumar (2015) Water Quality Management Plan for Patalganga River for Drinking Purpose and Human Health Safety International Journal of Scientific Research in Environmental Sciences3(2), pp. 0071-0087,
25. **ShaliniA. Tandon**,Sana Shaikh,Rakesh Kumar 2014 Development and use of soil bacterial consortia for bioremediation of dye polluted soil and municipal waste water Global Journal of Biosciences and Biotechnology Vol.3 (3)
26. **Shalini A Tandon**, Radhika Deore and Rakesh Kumar (2014). Isolation and identification of *Bacillus Marisflavi* TF-11 and optimizing its use for the treatment of municipal waste water International Journal of Environmental Sciences Int. J. Environmental Sciences Vol 3 (4) : pp 244 - 254
27. **Shalini A Tandon**, Radhika Deore and Rakesh Kumar Phyto treatment of municipal waste water in hybrid wetland systems (direct and reverse International Journal of Scientific Research in Environmental Sciences
28. **Shalini A Tandon**, Samir Dhupare, Hrishikesh Badrike and Rakesh Kumar (2015)Assessment of Pollution Caused by a Garbage Processing Facility, Hadapsar, Pune, India. International research journal of environmental sciences vol Vol. 4(10), 34-42,
29. Asheesh Srivastava, **Shalini A Tandon** and Rakesh Kumar (2015). Water quality management p[lan for patalganga river for drinking purpose and human health safety. International journal for scientific research in environemtal sciences 3(2): 71-87
30. **Shalini A. Tandon**, Radhika Deore and Ankita Parab Removal of pesticide Carbofuran using wetland plants International J of Advanced Biological Research 6(4) : 472-475
31. **Shalini A. Tandon**, Radhika Deore and Ankita Parab (2017) Isolation, Identification and use of Carbofuran degrading microorganisms for the removal of carbofuran pesticide from contaminated waters. Global Journal of Biosceinces and Biotechnology 6 (1): 89-95
32. **Shalini A. Tandon**, Radhika Deore (2017) Removal of pesticide monocroptophos using wetland plants Global Journal of Biosciences and Biotechnology Vol.6 (4) 2017: 671-676
33. **Shalini A. Tandon**, Radhika Deore (2017) Treatment of Waste Water from Dairy Products Processing Unit using immobilised *Bacillus Marisflavi* TF 11 \, Journal of Environmental Science and Engineering. Accepted
34. **Shalini A. Tandon**, Radhika Deore (2017) Isolation, Identification and use of malathion degrading microorganisms for the removal of pesticide from contaminated waters. National Journal of Life Sciences Vol. 14(2) 2017 :71-75.
35. Avick Sil, Kanchan Wakadikar , Sivagami SPM and **Shalini Tandon** and Rakesh Kumar (2017) Impact of Synthetic Based Fluids and Base oil on Earthworm Toxicity Int J Environ &Agri Sci, an open access journal Volume 1; Issue 1; 003
36. **Shalini A Tandon**, Rashmi Kumar, Mrugank J Thakoreand Samir Dhapare (2019) Bioremediation of toxic heavy metals from electroplating effluents National Journal of Life Sciences issue June 97-101
37. **Shalini Tandon**, Madhu Jha, Swapnil Dudhwadkar (2020) Study on *Ochrobactrum pseudintermedium* ADV31 for the removal of hexavalent chromium through different immobilization techniques. SN Applied Sciences 2:296
38. Koustubh Karande, **Shalini Tandon**, Ritesh Vijay, Sunali Khanna, Tuhin Banerji, Yeshwant Sontakke 2021 Prevalence of WaterBorne Diseases in Western India: Dependency on Quality of Potable Water and Personal Hygiene PracticesJournal of Water, Sanitation and Hygiene for Developme nt. <https://doi.org/10.2166/w ashdev.2021.200>
39. K Karande, **S Tandon\***, O Dube, S Dudhwadkar, R Vijay and R Kumar 2020 Assessment of water quality at the source and water distribution system during the dry season in Kannad city of MaharashtraJournal of Environmental Science and Engineering

40 Swapnil Dudhwadkar, **Shalini Tandon\***, Krutika Dalvi and Taruna Singh Assessment of antibiotic resistant bacteria and water quality attributes of open drains in Mumbai National Journal of Life Sciences, Vol 18 (1&2): 1-6

41 Swapnil Dudhwadkar, **Shalini Tandon\***, Abhaysinh Salunkhe and Krutika Dalvi Inhibition of multi drug resistant bacterial species, *Scandinavium goeteborgense* CCUG 66741 and *Aeromonas veronii* CRC6 isolated from a waste water treatment facility using Nano-composites Journal of Water Chemistry and Technology

42 Abhaysinh Salunkhe, **Shalini Tandon\*** and Swapnil Dudhwadkar 2023  
Surface Functionalization of Graphene Oxide with Silver Nanoparticles using Phyto extract and its Antimicrobial properties against Biological contaminants  
Arabian Journal for Science and Engineering, Springer

43 Swapnil Dudhwadkar, Abhaysinh Salunkhe, **Shalini Tandon\*** and Nitin Goyal 2023  
Passive inactivation of *Candida parapsilosis* in model indoor bioaerosol study using the visible photocatalytic activity of synthesized nanocomposite  
Chemical Papers