CV of Dr Shalini A Tandon

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Dr. Shalini A Tandon is a Scientist in Mumbai Zonal Center of NEERI, Mumbai. She earned Masters and Doctorate degree in Environmental Sciences from Indian Agricultural Research Institute, New Delhi, India. She has published 34 papers in international journals and in national refereed journals. She has 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. **Biodetoxification 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 for standing First in the University.
2. Recipient of **IARI Merit Gold Medal** for outstanding academic performance.
3. Awarded Junior Research Fellowship of the **Indian Council of Agricultural Research (ICAR)** on the basis of competitive examination held countrywide for pursuing M.Sc. 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
6. Recipient of the **Environmental Protection Award 2003** in the area of **environmental education and awareness.**
7. **Young Scientists Award (2005)** of the National Academy of Agricultural Sciences in the area of **Soil, Water & Environment**.

Work profile

Major projects handled

Environmental Impact Assessment Projects

1. Environmental Impact Assessment of Shivaji Maharaj memorial with statue off the coast off Mumbai in Arabian sea -for PWD,Govt Of Maharashtra.
2. Terrestrial Environmental Impact Assessment studies associated with the proposed development of garden /park at cuffe parade(between Nariman point and Geeta Nagar, western coast of Mumbai south city for MCGM ,Govt Of Maharashtra.
3. Impact Assessment Study to assess the feasibility of allowing Urban Renewal Scheme under Sec. 33(9) of DCR, 1991 in Suburban Area of Mumbai for MCGM, Govt Of Maharashtra.

Pollution monitoring and Assessment projects

1. Assessment of Pollution caused by a Garbage Processing Facility at Hadapsar, Pune, -PIL HC
2. Assessment of Municipal Solid waste Facility at Patghardi, Tal, Dist. Nashik.
3. Assessment of ETP of sugar factory at kolpewadi, Ahmednagar
4. Assessment of Patalganga river and point discharge characteristics for the development of action plan –for Maharashtra Jeevan Pradhikaran
5. Environmental Appraisal for removal of accumulated sludge along the banks of Vihar lake at Bhandup complex treatment Plant.- For Municipal Corporation of Greater Mumbai (MCGM)
6. Environmental and Health Assessment of Doongerwadi, Mumbai For Parsi Panchayat – for Parsi Panchayat
7. Toxicity Assessment of Base Oil & Synthetic Oil Base Mud ForTotal India Petroleum LTD, APAR chematek lubricants LTD, Halliburton offshore services inc

Waste water Technology Projects

1. Nitrogen and carbon dynamic study in a wetland ecosystem and varied applicability of a constructed wetland system-The Supra- institutional project
2. Assessment of phytophil technology for dairy and textile effluents from industries-In house project
3. R&D work has been carried out on bioremediation and Phytoremediation of waste waters

a) Removal of pesticides using combined Bioremediation and Phytoremediation techniques CRT (Carbofuran Removal Technology)

b) Bioremediation approach for the removal of heavy metals from Industrial Effluents

c) Phytoremediation approach for the removal of heavy metals from Industrial Effluents

4. Know-How Developed : Municipal Waste Water Treatment using Immobilised Microbial culture

River water projects

1. Study and report to Supreme Court on Mithi River Status after 26th July 2005 Deluge by IIT Bombay & NEERI
2. Validation of the Developed Real Time monitoring Sensor for River Water Quality Assessment. (INDO-US project with IIT –Delhi as the lead partner)

Other projects

1. Vulnerability Assessment and development of adaption strategies for climate change impact with special reference to coasts and island ecosystems of India (VACCIN)
2. WP-16 STUDY OF THE IMPACT OF CLIMATE CHANGE ON HUMAN HEALTH INTERFACE IN COASTAL AND ISLETS ECOSYSTEMS OF INDIA
3. Evaluation and Benchmarking of water requirement during manufacturing of Soft drinks, Mineral water, Beverages/Liquor - For Maharashtra Industrial Development Corporation (MIDC).
4. Dharavi redevelopment based on environmental sustainability and impact management system- For Dynamix Balwa group
5. Golden Jubilee Project. : Persistence studies of fipronil in different soils of India and to assess its effect on soil health. In-house project
6. Study for Mumbai MMR Sustainability: Housing and Transport- For Mumbai Transformation Support Unit, AIILSG

Research Publications :34

List of Research Papers published by Dr. Shalini A. Tandon

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 ∝ and β 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 α and β 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.

4. **Shalini Singh**, S. Kumar, M.C. Jain and D.Kumar (2001). Increased biogas production by using microbial stimulants. *Biores. Technol*. **78(3):** 313-316.
5. **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
6. **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
7. 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.
8. **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.
9. 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.
10. **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
11. **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
12. Pathak,H.,Mohanty S.,Patra,A.K. and **Shalini Singh Tandon** (2008) Environmental Change and Biodiversity in India. In Biodiversity for Sustainable De

elopment(Singh,N.P. and Chhonkar,P.K. Eds.)Publ: Asian Socity for Entrepreneuership Education Development, New Delhi pp.195-222.

13. **Shalini Tandon**, Mangesh Inarkar and (2009) 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
14. 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
15. Kanchan Wakadikar, Avik Sil, Niranjan Kolekar, **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
16. 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 Hettiaratchi[4] Toxicity Characteristics of Drilling Mud and Its Effect on Aquatic Fish Populations Journal of Hazardous, Toxic, and Radioactive Wastehttp://dx.doi.org/10.1061/(ASCE)HZ.2153-5515.0000092
17. **Shalini tandon** , Rakesh kumar and Prem Dureja (2011). Effect of fipronil on dehydrogenase activity in diverse soil types. *Pesticide Research Journal* 23 (1)
18. Prachi A. Nimkar, Niranjan Kolekar, **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* **DOI:** 10.1080/15226514.2011.628717 vol 14 :9
19. **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
20. **Shalini A Tandon ,** Niranjan Kolekar and Rakesh Kumar Water and Energy footprint assessment of Bottled Water Industries in India (2014) Natural Resource (SRP) 5, 68-72
21. **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.
22. **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
23. 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,
24. **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)
25. **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 Env sciences *Int. J. Environmental Sciences* Vol 3 (4) : pp 244 - 254

26. **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
27. **Shalini A Tandon, S**amir 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,
28. 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
29. **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
30. **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
31. **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
32. **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
33. **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.
34. 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

Papers presented in Conferences (with published extended summaries)

1. Shalini Singh, S. Kumar, M.C. Jain and D. Kumar (1998). Persistence of α and β Increased biogas production using microbial stimulants. *Bioenergy Society of India Convention*. Proceedings. Pp.64-65.

2. Shalini Singh, S. Kumar and P. Dureja (1999). Isomers of endosulphan and endosulphan sulphate in soils of India. *II Inter. Conf. on research on soil pollution in Australia-Pacific region New Delhi 12-17, December,1999*. Pp.188-189.

3. H. Pathak, **Shalini Singh,** Arti Bhatia, Shiv Prasad, , S. Kumar, M.C. Jain (2000) Emission of nitrous oxide from soil in rice wheat systems with DCD and FYM at different moisture regimes. *Indian Society of Soil Science, National Seminar 65th Ann. Convention, Nagpur.* December 27-30, 2000. Pp. 91

4. Arti Bhatia, H. Pathak, **Shalini Singh**, Shiv systems. *88th Indian Science Congress, New Delhi, 2001 Part IV Environmental Science Section.* Proc. P. 304.

5. Shiv Prasad, Arti Bhatia, Bidisha Banerjee, **Shalini Singh** (2001). Yield and plant N use efficiency in rice wheat systems with FYM, DCD and various moisture regimes, *88th Indian Science Congress, New Delhi, 2001 Part IV* Proc.*Agricultural Science Section*. P. 119-120.

6. Shalini S Tandon, P. P. Srivastava, S.C. Mukherjee, N. Saharan (2004) Studies on the acute toxicity of Cypermethrin, Deltamethrin and Fenvalerate to Indian Major carp. Catla (*Calta catla* L). Third Indian Fisheries Science Congress, November 4-6, New Delhi

7. Rakesh Kumar, Parag Jawale and **Shalini Tandon** (2008) Economic Impact of climate change on Mumbai, India. Regional Health forum, WHO South East Asia Region, 12(1): 38-43.

Workshops

1. Presentation in a workshop at Rachana Sansad Institute of Environmental Architecture on 31st may 2009 at 2:15 pm On Decentralised waste water treatment. Lecture titled 'Phytorid technology'.
2. Workshop on MMR sustainability : housing and transport. 3rd Dec 2009 at MTSU. Presentation on MMR sustainability : housing sector
3. Byelaws for recycling and reuse of water 2nd July 2009 at AIILSG, Mumbai
4. CLIMATE CHANGE AND ITS ECONOMIC IMPACT ON MUMBAI National workshop on Climate change and its impact on Human Health, (2007), Lonavala. Organised by WHO and NEERI
5. RECYCLING OF WASTE WATER AND ITS USES National Science Day Celebration Seminar. (2008) Mumbai University
6. CLIMATE CHANGE AND ITS IMPACT ON HUMAN HEALTH 4 th Science Expo (2008)Nehru science center, Mumbai
7. WASTE WATER TREATMENT AND RECYCLING Mithibai college, Mumbai university (2008)
8. PHYTORID TECHNOLOGY.Workshop On Decentralised waste water treatment. Rachan Sansad Institute of Environmental Architecture (2009)
9. PHYTOREMEDIATION –A GREEN TECHNOLOGY. Seminar on Environmental Biotechnology: Recent Advances: (2010). Department of life sciences, University of Mumbai
10. Organised the 5th Science Expo (20-24th Jan 2011), Nehru Science Center, Mumbai
11. Presentation on Phytorid Technology at the 5th Science Expo (20-24th Jan 2011) Nehru Science Center, Mumbai
12. Presentation given on Environmental sustainability of airports for the conference on Indian Aviation –way forward. Mumbai on 9th March 2011

13. Presentation on Mechanism of Wetland in Workshop on CSIR-NEERI Phytorid Dissemination and Implementation September 17-18, 2013 Venue: NEERI, Nagpur
14. Presentation on Wetland mechanism and constructed wetlands for waste water treatment at the Science expo 4-7 Feb 2015 Nehru science centre.
15. Presentation on Phytorid technology given in a meeting organized at Mohili meadows in Karjat by Matheran Municipal Council for the improvement in sewerage system in Matheran.
16. PHYTOREMEDIATION OF MUNICIPAL WASTE WATER USING GENETICALLY MODIFIED NON-EDIBLE WETLAND AND NON WETLAND PLANTS IN A CONSTRUCTIVE WETLAND An international conference on water sanitation and recycling. Organized by Maharashtra Chambers of Commerce, Industry and Agriculture (MACCIA) March 22 nd 2014.
17. 2. ISOLATION AND EFFICIENCY EVALUATION OF A *BACILLUS* SPECIES IN MUNICIPAL WASTE WATER TREATMENT An international conference on water sanitation and recycling. Organized by Maharashtra Chambers of Commerce, Industry and Agriculture (MACCIA) March 22 nd 2014.
18. Invited speaker on Decentralized waste water treatment. National summit and exhibition on water, waste water treatment and solid waste management. 29th-30th September 2015, New Delhi

Guided post graduate trainees:

1) Use of coir as a support media in a **constructed wetland** for treating sewage (2008)
2) Removal of dye Reactive Red 2 dye using wetland plants (2008)
3) **Phytoremediation** of reactive Red 2 dye using coir as wetland media (2008)
4) Decolourization studies of C.I Reactive Red 11 and C.I Reactive Yellow 84 azo dyes by **bacterial consortia** developed and isolated from soil and its application (2011)
5) **Phytoremediation system** for the removal of antibiotics from waste water(2011)
6) Treatment of different waste waters by using floating wetland systems with waste materials(2011)
7) Development of bacterial consortia for increasing the efficiency of a phytoremediation system(2011)
8) **Phytoremediation** of municipal waste water using genetically modified non-edible wetland and non-wetland plant species.(2013)
9) To study the efficiency of auxin treated wetland and non-wetland plants in the **phytoremediation** of municipal waste water (2013)
10) Treatment of municipal waste water through **bioremediation and phytoremediation** (2014-18)
11) One PhD Student : Inactivation of Air borne microorganisms by Nanomaterials

Coordinator of Mumbai University PhD students for NEERI and AcSIR coordinator for students doing PhD from Mumbai Zonal Center of NEERI.

C. Chairing of sessions, organisation of seminars and interview panel member

1) ***Co-convenor*** of National Workshop on Climate change and its Impact on Human Health, 26- 27 Nov 2007 at Lonavala. NEERI in collaboration with WHO
2) **Organised** World Environment day celebration seminar on 5th June 2007 at Mumbai university by NEERI, Life science department of Mumbai university and SOCLEEN.
3) ***Chairperson*** of the technical session on Climate Change and Environment Assessment at the 16th International Economic Convention on Global warming and climate change 18, -20th Dec, 2008 at RD National college, Mumbai. **Member** of the interview panel for the project on Development of Bioremediation Technology for Pesticides Department of life sciences, University of Mumbai. (2008)

4) **Organised** workshop on MMR sustainability : housing and transport. 3rd Dec 2009 at MTSU. Presentation on MMR sustainability : housing

6) . Member of Organisation committee of the conference on **oil spill , climate change and radiation risks** held on 15th and 16th Nov 2011, Mumbai

1) Was in the panel for '**Technical evaluation for chemicals and technologies for water purification**' for Maharashtra Govt . on 03rd Jan 2014.

12) An expert judge for the regional level seminar for Mumbai region that was held at Nehru Science Centre on 22.8.2013 on **'Water Cooperation: Issues and Challenges'** and Mumbai Regional Level Seminar

Training Imparted

1) Presentation and training was given to 70 participants from different regions of Maharashtra **on Phytorid Technology**. Maharashtra Environmental Engineering Training and Research Academy, Nashik, A Govt Of Maharashtra Organisation .
2) For the review of the Patalganga river water status, **appointed as the member of the committee constituted for the same**(other members are Dr Sontakke from MPCB RO Navi Mumbai, Mr Waghmere, RO Raigad, Mr shourie MJP, Mr waidande MJP)
3) Was called as a **speaker on the 'EIA'**, at the **international seminar on "Development of Township" organized by UP Housing & Development Board**, 3rd and 4th April 2015, Indira Gandi Pratishthan, Lucknow
4) Wrote a chapter on **waste water treatment** in the **writeshop.** The aquatic environment and health division, Central Institute of Fisheries Education organized a writeshop for the preparation of an instruction manual on the subject AQUATIC ENVIRONMNENT MANAGEMENT. The aim of the writeshop was to compile the information based on advanced techniques of aquatic environment management by inviting eminent scholars and scientist to develop the material in a participatory mode.
5) Sectional assistant to the EVS section of **Indian Science Congress 2015**, Conducted and organized the entire programme of EVS, **dissemination of Phytorid technology** through a working model and explanation of an already established Phytorid plant in Mumbai university, Kaleena
6) **Organisation of the science expo 2015 at the Nehru Science Center, the NEERI's exhibit got the second prize in the mega event.** Nehru science center had organized ***Science Expo 2015*** from 4th Feb to 7th Feb 2015. The ***Science Expo*** which is an

interface of science and society , was inaugurated by Dr R.K. Sinha, Chairman Atomic Energy Commission and Secretary, Department of Atomic Energy, Mumbai. NEERI had participated in the Science Expo with its exhibit showcasing the research and development done at NEERI. NEERI's exhibit was very well appreciated and was bestowed with an **APPRECIATION AWARD in recognition of the significant contributions made by CSIR- NEERI towards popularization of science in society, students in particular during this Science Expo.**

7) ***Co-convenor*** of National Workshop on Climate change and its Impact on Human Health, 26- 27 Nov 2007 at Lonavala. NEERI in collaboration with WHO
8) **Organised** World Environment day celebration seminar on 5th June 2007 at Mumbai university by NEERI, Life science department of Mumbai university and SOCLEEN.
9) ***Chairperson*** of the technical session on Climate Change and Environment Assessment at the 16th International Economic Convention on Global warming and climate change 18, -20th Dec, 2008 at RD National college, Mumbai.

10) Member of the interview panel for the project on Development of Bioremediation **Technology for Pesticides Department of life sciences, University of Mumbai. (2008)**

11) **Organised** workshop on MMR sustainability : housing and transport. 3rd Dec 2009 at MTSU. Presentation on MMR sustainability : housing
12) . Member of Organisation committee of the conference on **oil spill , cliumate change and radiation risks** held on 15th and 16th Nov 2011, Mumbai
13) Organised a visit and a presentation given to the Universal School, Tardeo as a continuation of their endeavors to reduce Carbon Footprints, involved in a project called Clocking the Carbons for the British Council International School Award.
14) Detailed Write up on **Phytorid Technology for Class C Municipal Councils in Maharashtra** : Giving details on number of phytorid plants needed, cost saving for different plant sizes for different population sizes in class C municipal council. Also comparison of capital cost and O&M per year between phytorid and other conventional technologies was given.
15) Leading the scientists-student interaction programme at Mumbai Zonal Center, NEERI. With various interactive programmes in Municipal, orphanage and International Schools of Mumbai