

Rubia Z. Gaur

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Visiting Scientist (ARO-PDF)

Agricultural Research Organization – Volcani Center

Institute of Soil, Water and Environmental Science

Newe Ya'ar Research Center, Israel.

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Research Interest

-
- Advanced Anaerobic Digestion, Hydrothermal and Pyrolysis of Waste Biomass
 - Energy Efficient Wastewater Treatment Systems
 - Post Treatment of Anaerobic Effluent and its Upgradation
 - Nitrogen Revomal via Anammox and Aerobic Granulation for Mainstream Treatment

Education

Ph.D. (Environmental Science and Natural Resources) - **2018**

Thesis Title: Improving Biogas Production in Urban Wastes Co - Digestion Process

Supervisor: Dr. S. Suthar, Doon University, Dehradun, India

Co-Supervisor: *Dr. Beni Lew, ARO, Bet Dagan, Israel*

M.Sc. (Zoology with specialization in Environmental Science) - **2006**

Thesis: Physico-chemical charaterization of Yamuna River Water

Supervisor: Dr. A.K Minocha , Central Building Research Institute, Roorkee, India

B.Sc. (Chemistry, Botany, and Zoology) - **2004**

D.A.V. College Roorkee (HNB Gharwal University, Srinagar)

Professional Experience

Current Position

Visiting Scientist (ARO-PDF) **June 2019 – Continue**

Agricultural Research Organization – Volcani Center, Institute of Soil, Water and Environmental Science Newe Ya'ar Research Center, Israel

Advisor: Dr. Roy Posmanik

Project Title: Hydrothermal Carbonization of Sewage Sludge for Agricutural Application

Job Responsibilities

- Team leader for the research group
- Presentation, Designing the experiments writing report and manuscripts
- Mentoring PhD and Masters students

Previous Positions

1. **Indo-US STEMM Fellow (Postdoctoral Researcher)** **September 2018- March 2019**

Postdoctoral Researcher – Department of Civil and Environmental Engineering, University of South Florida, Florida, USA

Advisor: Prof. Sarina J.Ergas

Project Title: High Solids Anaerobic Digestion of Invasive Aquatic Weeds for Enhance Methane Production, sponsored by IUSSTF, India

Job responsibility

- Team leader for the research group
- Designing the experiments writing report and manuscripts

2. Research Associate – I

January 2018 – September 2019

Department of Civil Engineering, Jamia Millia Islamia (Central University), New Delhi, India

Project Title: UASB up –gradation and its post treatment by Aerobic Granulation sponsored by Department of Science and Technology (DST) Govt. of India, New Delhi

Job responsibility

- Team leader for the research group
- Designing experiments writing report and manuscripts
- Mentoring PhD and Masters students

3. Junior Research Fellow (JRF)

February 2008 -

March 2009

Environmental Engineering Section, Department of Civil Engineering, Indian Institute of Technology, Roorkee, India

Advisor: Prof. A.A.Kazmi

Project Title: Upflow Anaerobic Sludge Blanket Reactor (UASB) and Sequencing Batch Reactor (SBR) system for Sewage Treatment and Reuse sponsored by Petroleum Conservation Research Association (PCRA), Govt. of India, New Delhi

Job Responsibilities

- Operation and Maintenance of Pilot Scale Experimental Setup; Sampling and Analysis of parameters such as pH, BOD, COD, TSS, Turbidity, Color, $\text{NH}_4\text{-N}$, TKN, TP, Fecal Coliforms and Total Coliforms from the inlet and outlet of the reactor
- Evaluation and optimization of SRT, F/M, MLSS, MLVSS, DO and SVI levels for the treatment of UASB Effluent and optimization of the rate of biological oxidation (OUR), nitrification, denitrification in the process.
- Preparation and implementation of Research Plans, Compilation of Results and writing Project Reports, Manuscript Preparation, and presentations on the progress of research projects.

4. Senior Research Fellow (SRF)

April 2009 – December 2012

Environmental Engineering Section, Department of Civil Engineering, **Indian Institute of Technology Roorkee, India**

Advisor: Prof. A.A.Kazmi

Project Title: High Solids anaerobic Digestion of Aquatic weeds for Enhanced methane Production

Job Responsibilities

- Monitoring of laboratory setup (UASB and SBR)
- Monitoring the performance of Sewage Treatment Plants (STPs)

- Study of Nutrient Removal of from UASB-SBR system treatment sewage
- Preparation and implementation of Research Plans, Compilation of results and writing Project Reports, Manuscript Preparation, and presentations on the progress of research projects.

Academic Achievements/ Awards/ Honors

- Selected for “Indo-U.S. Fellowship for Women in STEMM (WISTEMM) Women Overseas Student Internship program 2018” supported by the Department of Science and Technology (DST), Govt. of India and implemented by the Indo-U.S. Science & Technology Forum (IUSSTF) for September 28, 2018-March 28, 2019.
- Full Financial Support for Attending 14th IWA Leading Edge Conference 2017 on Water and Wastewater Treatment during May 2017 at Florianopolis, Brazil.
- Awarded Israel Government Fellowship during October 2015 – May 2016.
- Maulana Azad Fellowship, Govt. of India to pursue the Ph.D. degree June 2016 January 2018

Publications (26)

Research Papers in Peer-Reviewed Journals : 26

Google Scholar Citations

Total Citations : 528

h-index : 12

i10 index : 13

Source: <https://scholar.google.co.in/citations?user=cqRSvfAAAAAJ&hl=en>

2021

1. Zohar, M., Matzrafi, M., Abu-Nassar, J., Khoury, O., **Gaur, R.**, Posmanik, R. (2021). Subcritical water extraction as a circular economy approach to recover energy and agrochemicals from sewage sludge. *Journal of Environmental Management*, **accepted**. **Impact Factor= 5.647**
2. **Gaur, R. Z.**, Khoury, O., Zohar, M., Poverenov, E., Darzi, R., Laor, Y., Posmanik, R. 2020. Hydrothermal carbonization of sewage sludge coupled with anaerobic digestion: Integrated approach for sludge management and energy recycling. *Energy Conversion and Management*, 224, 113353. **Impact factor = 8.208**
3. Khursheed, A., Alam, S., Tyagi, V. K., Nagpure, A. S., Khan, A. A., **Gaur, R. Z.**, Singh, S., Bhattacharya, P., Mukherjee, S. and Kumar, M., 2020. Future liasing of the lockdown during COVID-19 pandemic: The dawn is expected at hand from the darkest hour. *Groundwater for Sustainable Development*, 100433.
4. Mirza, M. W., D'Silva, T. C., Gani, K. M., Afsar, S. S., **Gaur, R. Z.**, Mutiyar, P. K., A.A Khan Lew, B. 2020. Cultivation of Anaerobic Ammonium Oxidizing Bacteria (AnAOB) using different sewage sludge inoculums: process performance and microbial community analysis. *Journal of Chemical Technology & Biotechnology*. **Impact factor = 2.370**

2019

5. Owaes, M., **Gaur, R. Z.**, Hasan, M. N., Gani, K. M., Kumari, S., Bux, F., Khan, A. A. 2019. Performance assessment of aerobic granulation for the post treatment of anaerobic effluents. *Environmental Technology & Innovation*, 100588. **Impact factor = 3.356**

2018

6. Khursheed, A., **Gaur, R.Z.**, Sharma, M. K., Tyagi, V. K., Khan A.A, Kazmi.A.A. 2018. Dependence of enhanced biological nitrogen removal on carbon to nitrogen and rbCOD to sbCOD ratios during sewage treatment in sequencing batch reactor. *Journal of Cleaner Production*, 171, 1244-1254 (Elsevier, USA), **Impact factor = 7.247**

2017

7. **Gaur, R. Z.**, Suthar, S. 2017. Anaerobic digestion of activated sludge, anaerobic granular sludge and cow dung with food waste for enhanced methane production. *Journal of Cleaner Production*, 164, 557-566, (Elsevier, USA), **Impact factor = 7.247**
8. **Gaur, R. Z.**, Suthar.S. 2017. Nutrient scaling of duckweed (*Spirodelapolyrhiza*) biomass in urban wastewater and its utility in anaerobic co-digestion. *Process Safety and Environmental Protection* 107, 138-146, (Elsevier, USA), **Impact factor = 4.966**
9. **Gaur, R. Z.**, Khan, A. A., Suthar, S. 2017. Effect of thermal pre-treatment on co-digestion of duckweed (*Lemna gibba*) and waste activated sludge on biogas production. *Chemosphere*, 174, 754-763, (Elsevier, USA), **Impact factor = 5.108**
10. **Gaur, R. Z.**, Khan, A. A., Lew, B., Diamantis, V., Kazmi, A. A. 2017. Performance of Full-Scale UASB Reactors Treating Low or Medium Strength Municipal Wastewater. *Environmental Processes*, 4(1), 137-146. (Springer, Japan), **Impact Factor=1.150**
11. Khursheed, A., Tyagi, V. K., **Gaur, R. Z.**, Sharma, M. K., Khan, A. A., Kazmi, A. A. 2017. Reduced sludge growth at high bulk liquor dissolved oxygen induced by increased secondary cell maintenance. *Chemosphere*, 184, 636-641 (Elsevier, USA), **Impact factor = 5.108**
12. Suthar, S., Pandey, B., Gusain, R., **Gaur, R. Z.** 2017. Nutrient changes and biodynamics of Eiseniafetida during vermicomposting of water lettuce (*Pistia* sp.) biomass: a noxious weed of aquatic system. *Environmental Science and Pollution Research*, 24(1), 199-207. (Springer, Japan), **Impact factor =2.914**

2016

13. Khan, A. A., **Gaur, R. Z.**, Mehrotra, I., Kazmi, A. A., Lew, B. 2016. Removal of Reduced Species from the Effluent of UASB Reactor Treating Domestic Wastewater. *Journal of Environmental Engineering*, 142(11), 04016060. (ASCE, USA) **Impact factor = 1.652**
14. Khursheed, A., Tyagi, V. K., A. Khan, A., Bhatia, A., **Gaur, R. Z.**, Ali, M., Sharma, M., Kazmi, A. A., Lo, S. L. 2016. Operation and maintenance of sewerage systems: present challenges and possible

solutions—an Indian experience. *Desalination and Water Treatment*, 57(7), 2887-2902. (Taylor & Francis, USA), **Impact factor = 1.234**

2014

15. Khan, A. A., **Gaur, R. Z.**, Mehrotra, I., Diamantis, V., Lew, B., Kazmi, A. A. 2014. Performance assessment of different STPs based on UASB followed by aerobic post treatment systems. *Journal of Environmental Health Science and Engineering*, 12(1), 43.(Springer, Japan), **Impact factor = 2.773**

2013

16. Khan, A. A., **Gaur, R. Z.**, Diamantis, V., Lew, B., Mehrotra, I., Kazmi, A. A. 2013. Continuous fill intermittent decant type sequencing batch reactor application to upgrade the UASB treated sewage. *Bioprocess and Biosystems Engineering*, 36(5), 627-634.(Springer, Japan) **Impact factor= 2.371**
17. Tyagi, V. K., Bhatia, A., **Gaur, R. Z.**, **Khan, A. A.** Ali, M., Khursheed, A., Kazmi, A. A., Lo, S. L. 2013. Impairment in water quality of Ganges river and consequential health risks on account of mass ritualistic bathing. *Desalination and Water Treatment*, 10-12, 2121- 2129(Taylor & Francis, USA), **Impact factor = 1.234**
18. Sudhir, P., **Gaur, R. Z.**, Khan, A. A., Kazmi, A. A., Mehrotra, I. 2013. Submerged aerated bio-filter (SAB)--a post treatment option for UASB effluent treating sewage. *Journal of Environmental Science Engineering*, 55(3), 359-370.

2012

19. Khursheed, A., **Gaur, R. Z.**, Bhatia, A., Khan, A. A., Tyagi, V. K., Kazmi, A. A. 2012. Role of volume exchange ratio and non-aeration time in spillage of nitrogen in continuously fed and intermittently decanted sequencing batch reactor. *Chemical Engineering Journal*, 191, 75-84.(Elsevier, USA), **Impact factor = 8.355**
20. Khan, A. A., **Gaur, R. Z.**, Tyagi, V. K., Lew, B., Diamantis, V., Kazmi, A. A., Mehrotra, I. (2012). Fecal coliform removal from the effluent of UASB reactor through diffused aeration. *Desalination and Water Treatment*, 39(1-3), 41-44. (Taylor & Francis, USA), **Impact factor = 1.234**
21. Khan, A. A., **Gaur, R. Z.**, Lew, B., Diamantis, V., Mehrotra, I., Kazmi, A. A. 2012. UASB/Flash aeration enable complete treatment of municipal wastewater for reuse. *Bioprocess and Biosystems Engineering*, 35(6), 907-913. (Springer, Japan) **Impact factor= 2.371**
22. Tyagi, V. K., Bhatia, A., **Gaur, R. Z.**, Khan, A. A., Ali, M., Khursheed, A., Kazmi, A. A. 2012. Effects of multi-metal toxicity on the performance of sewage treatment system during the festival of colors (Holi) in India. *Environmental Monitoring and Assessment*, 184(12), 7517-7529.(Springer, Japan) **Impact Factor = 1.959**
23. Lew, B., Khan, A. A., **Gaur, R. Z.**, Kazmi, A. A., Mehrotra, I. 2012. UASB-ASP - Full scale UASB followed by different aerobic post treatment system treating wastewater. *Hydrology: Current Research*. 3, 4, 92, (OMICS)**Impact factor= 1.95**

2011

24. Khan, A. A., **Gaur, R. Z.**, Tyagi, V. K., Khursheed, A., Lew, B., Mehrotra, I., Kazmi, A. A. 2011. Sustainable options of post treatment of UASB effluent treating sewage: a review. *Resources, Conservation and Recycling*, 55(12), 1232-1251.(Elsevier, USA), **Impact factor =7.044**
25. Khan, A. A., **Gaur, R. Z.**, Lew, B., Mehrotra, I., Kazmi, A. A. 2010. Effect of aeration on the quality of effluent from UASB reactor treating sewage. *Journal of Environmental Engineering*, 137(6), 464-471. (ASCE, USA) **Impact factor = 1.655**
26. Tyagi, V.K., Khursheed, A., Sahu, B.K., Ahmad, Z., Kazmi, A. A. Chopra, A. K. 2011.Fate of coliforms and pathogenic parasite in four full-scale sewage treatment systems in India. *Environmental Monitoring and Assessment*, 181, 123-135.(Springer, Japan) **Impact Factor = 1.959**

Presented and Published in Proceedings of Conferences

2019

1. **Gaur, R.**, Khoury, O., Laor, Y., Posmanik, R., 2019. Hydrothermal Carbonization of Sewage sludge: Impact of Temperature and Retention time on Nutrient Recovery, Oral presentation at Student Conference at Agricultural Research Organization – Volcani Center, Institute of Soil, Water and Environmental Science, Israel
2. **Gaur, R., Yang, Xia.**, Bittencourt, P., Ergas, J. S., 2019. High solids anaerobic digestion of Water hyacinth, Banana Waste, and Moringa Biomass for Enhanced Methane Production. Oral Presentation in 44th International Technical Conference on Clean Energy, Clearwater, Tampa, Florida, USA

2018

3. **Gaur, R.Z.**, Oweas, M., Shakeena, N., Mutiyar, P., Lew, B., Khan, A. A., 2018. Nutrient Removal From Intermittent Micro-aerobic UASB Reactor Treating Sewage accepted for Oral Presentation 15th IWA Specialized Conference on Small Water and Wastewater Systems and 7th Specialized Conference on Resources Oriented Sanitation held on 14-18 October 2018, in Haifa, Israel

2017

4. **Gaur, R.Z.**, Suthar, S., Lew, B. 2017. Utilization of Duckweed (*Spirodela Polyrrhiza*) For Sewage Treatment And Biogas Production: An Integrated Approach. Paper presented at 14th IWA Leading Edge Conference 2017 on Water and Wastewater Treatment at the Oceania Convention Centre, Florianopolis, Santa Catarina, Brazil. June 29th to 02nd, 2017.
5. **Gaur, R.Z.**, Suthar, S. 2017. Anaerobic digestion of lemna gibba & waste activated sludge. Paper presented at Petroleum and Energy conclave (PERC-2017), at DIT University, Dehradun. March 22 – 24, 2017
6. **Gaur, R.Z.**, Suthar, S. 2017. Impact of Thermo-alkaline pretreatment on the organic solubility of sewage sludge, food waste and its utility in anaerobic co-digestion. Presented at International conference on the Inner and outer climate and the Quest for the Environmental Sustainability, at Doon University Dehradun, March, 24-26, 2017

2016

1. Asfar, M., **Gaur, R. Z.**, Afsar, S.S., Khan, A. A., Khan, Kazmi, A. A., Diamantis, B., Lew, B., Kazmi. A.A., 2016. Determination of Active Biomass in Activated Sludge of Different STPs in India accepted for Oral Presentation at 13th IWA Specialized Conference on Small Water and Wastewater Systems, Athens, Greece during Sep. 14-16,.

2015

2. **Gaur, R. Z.**, Afsar, S.S., A. A., Khan, Kazmi, A. A., 2015. Long Term Performance Evaluation of UASB Reactor Treating Domestic Wastewater. Proceedings of AD14th – World Congress on Anaerobic Digestion - IWA Conference – AD 14 (*Vina Del Mar, Chile*); Nov.16 – 18th, No. 148; 3113219.

2012

3. Khan, A. A., **Gaur, R. Z.**, Diamantis, B., A. A., Khan, Ahmad, M., Lew, B., Mehrotra, I., Kazmi. A.A., Removal of C, N and P from a municipal UASB reactor using a novel SBR with spatial separation of the anoxic and aerobic zones. Proceedings of 10th International Symposium on Southeast Asian Water Environment, Nov 08-10, 2012, Vol. 10, Part II, Hanoi, Viet Nam.
4. Tyagi, V.K., Bhatia, A., **Gaur, R.Z.**, Khan, Khan, A. A., M., Khursheed, A., Kazmi, A.A., Effect of mass bathing on water quality of river Ganga and consequential health risks during 2010 Maha Kumbh Festival. Proceedings of 10th International Symposium on Southeast Asian Water Environment, Nov 08-10, 2012, Vol. 10, Part I, Hanoi, Viet Nam.
5. Khan, A. A., **Gaur, R. Z.**, Diamantis, B., A. A., Khan, Ahmad, M., Lew, B., Mehrotra, I., Kazmi. A.A., Direct anaerobic digestion of diluted municipal wastewater at decentralized level. Proceedings of IWA regional conference on wastewater purification and reuse. March 28-30, 2012, Heraklion, Crete, Greece.
6. Khursheed, A., Tyagi, V.K., Khan, A. A., **Gaur, R.Z.**, Bhatia, A., Ali, M., Sharma, M., Kazmi, A.A., Lo, S.L. Operation and Maintenance of Sewerage Systems: Present Challenges and Possible Alternatives – An Indian Experience. Proceedings of 8th International Conference on Urban Watershed management. 6 – 8th September, 2012, pp 41, Beijing, China.

2011

7. Khan, A. A., **Gaur, R. Z.**, Diamantis, B., Lew, B., Mehrotra, I., Kazmi. A.A., Retrofitting CFID with UASB for Sewage Treatment and Reuse. Proceedings of 9th International Symposium on Southeast Asian Water Environment, Dec. 1-3, 2011, pp 185-192, Bangkok, Thailand.
8. **Gaur, R. Z.**, Khan, A. A., Kazmi. A.A., Performance Evaluation of Full Scale SBR based STPs. Proceedings of World Congress for Man and nature- Global Climate Change and Biodiversity Conservation- Nov. 11-13, 2011, Haridwar, India.
9. Khan, A. A., **Gaur, R. Z.**, Lew, B., Mehrotra, I., Kazmi. A.A., Full Scale Experiences with UASB followed by Different Aerobic Post Treatment Systems Treating Domestic “Used Water”. Proceedings of X DAAL IWA conference 2011, Oct 23-27, Ouro Preto, Brazil.
10. Khan, A. A., **Gaur, R. Z.**, Tyagi, V.K., Lew, B., Diamantis, B., Mehrotra, I., Kazmi. A.A., Fecal Coliforms Removal from the Effluent of UASB Reactor Treating Sewage through Aerobic Post

treatment (Continuous Aeration) System. Proceedings IWA Specialist Conference on Water and Industry 2011, pp 12, May 01-04, 2011, Valladolid, Spain.

11. Khan, A. A., **Gaur, R. Z.**, Lew, B., Kazmi, A.A., Mehrotra, I. Integrated UASB and Continuous Flow Sequencing Batch Reactor System for Sewage Treatment. Proceedings IWA Conference on Microbes in Wastewater and Waste Treatment, Bioremediation and Energy Production pp 97, January 24-27, 2011, Goa, India.
12. Padigala, S., **Gaur, R. Z.**, Khan, A. A., Kazmi, A.A., Mehrotra, I. Post treatment of UASB Effluent by Submerged Aerated Bio-filter Treating Sewage. Proceedings IWA Conference on Microbes in Wastewater and Waste Treatment, Bioremediation and Energy Production pp 226, January 24-27, 2011, Goa, India.

2010

13. Khursheed, A., **Gaur, R. Z.**, Bhatia, A., Khan, A. A., Tyagi, V.K., Kazmi, A.A., Effects of High Bulk liquid DO on the Performance of Continuous Fed SBR. Proceedings International Conference on Emerging Technologies for Sustainable Environment, pp 749-755, Oct. 29-30, 2010, Aligarh, India.
14. Tyagi, V.K., Bhatia, A., **Gaur, R. Z.**, Ali M., Khan, A. A., Khursheed, A., Kazmi, A.A., Khan, A.A. Effects of Shock Toxic Load on Activated Sludge Process. Proceedings 3rd International Congress of Environmental Research, pp 789, 16-18th September 2010, Reduite, Mauritius.

Book Chapters/ Manual Published

1. **Gaur, R.Z.**, Owaes, M., D'silva, C. T. , Hasan, N. M., Mutiyar, K. P., Khan, A. A., Tyagi, V. K., 2019. Micro aerobiv technologies for UASB effluent polishing : An overview- Chapter 4 Post Treatments of Anaerobically Treated Effluents 1, 57-62
2. Suthar, S., Verma, R., Gusain, R., Vineet Singh, Pandey, B., **Gaur, R.Z.** 2016. Application of duckweed based bioreactors in wastewater treatment and pollution abatement. In: Water Resources: Management and Treatment Technologies (Ed. Sharma, Nautiyal and Pant). USERC & Bishen Singh Mahendra Pal Singh, New Connaught Place, Dehradun, pp. 203-232. ISBN-978-81-211-0943-7.
3. Khan, A. A., **Gaur, R. Z.**, Mehrotra, I., Kazmi, A. A., Lew, B. 2013. Sustainable Post Treatment of Anaerobic Effluents: A chapter published in a book titled - Biodegradation. ISBN: 980-953-307-968-9; publisher – InTech Publishing Corporation, Croatia.
4. Operation and Maintenance of UASB reactor – a Chapter contributed to a Text Book on Operation and Maintenance of Sewerage Works edited by Dr. A.A.Kazmi 2010. Publisher National River Conservation Directorate (NRCD), Ministry of Environment and Forest, Govt. of India in co-operation with Japan International Cooperation Agency (JICA).
5. Determination of DO, BOD, COD and TOC and the Interrelationship between BOD, COD and TOC. (December 2009). Submitted to Central Pollution Control Board, Delhi.

Workshop/Seminar and Training Program

2010

1. Training Program on Operation and Maintenance of Sewerage Works: sponsored by JICA and MoEF and organized by Department of Civil Engineering, IIT Roorkee for Assistant Engineer and Executive Engineers, December 20-24, 2010.
2. Training Program on Operation and Maintenance of Sewerage Works: sponsored by JICA and MoEF and organized by Department of Civil Engineering, IIT Roorkee for Junior Engineer and Chemists, December 06-10, 2010.
3. Training Program on Operation and Maintenance of Sewerage Facilities and Sewage Treatment Plants sponsored by JICA & MOEF and organized by Department of Civil Engineering, IIT Roorkee, Feb. 01–05, 2010.

2009

4. Training program on Chemical Analysis of Water and Wastewater sponsored by Central Pollution Control Board, Delhi and organized by Department of Civil Engineering, Indian Institute of Technology Roorkee, December 06–08, 2009.

2008

5. Training program on Water and Wastewater Quality Analysis sponsored by Central Pollution Control Board, Delhi and organized by Department of Civil Engineering, Indian Institute of Technology Roorkee, July 14–16, 2008.

Also extensively involved in preparation of final reports, site visits and monitoring of STPs.

1. Monitoring of the Performance of 43 MLD UASB-Aeration System based STPs at Vadodara (November 2010).
2. Monitoring of the Performance of 27 & 34 MLD UASB based STPs at Sector 50 and 54, Noida (October 2010).
3. Monitoring of the Performance Evaluation of 111, 152 & 48 MLD UASB-Aeration based STPs at Ludhiana (November 2009 –June 2010).
4. Performance Evaluation of Cyclic Technology (C-Tech) based STPs treating Municipal Sewage at Pune (45 MLD Mundwa STP), Mumbai (100 MLD Nerul and Vashi STPs), Maharashtra, and Goa (12.5 MLD, 1.1 MLD STPs). SFC Environmental Technologies, Mumbai (2009).
5. Performance Evaluation of 78 MLD UASB-Diffused Aeration/ Extended Aeration based STP at Surat during October – November 2009.
6. Performance Evaluation of 78 MLD UASB based STP for Sewage Treatment, Yamuna Pollution Control Unit, UP Jal Nigam, Agra (2009).
7. Study upon the Technical Feasibility of the Diversion of Shahdara Drain, Delhi. (Site monitoring; Measurement of Drain flow, size etc., Wastewater samples collection and testing) (2009).
8. Monitoring of the Performance Evaluation of 48 MLD UASB based STP along with 1.0 MLD DHS at Karnal (November 2008 –April 2009).

9. Monitoring of the Performance Evaluation of 38 MLD UASB based STP at Saharanpur (February 2008 –March 2009).
10. Quality assurance and recommendation of ETP samples. Fair Exports, Sahibabad, Ghaziabad, UP. (2008).
11. Environmental Monitoring for EIA studies of Kashipur Industrial Estate, SIDCUL, Uttarakhand (2008).

Technical Reports

Extensively involved in preparation of research and consultancy project reports with my Professor

- Environmental Impact Assessment of Multi-Product Industrial Zone, Kashipur, SIDCUL, Dehradun.
- Report on UASB-SBR System for Sewage Treatment & Reuse for PCRA funded project.
- Report on Performance Evaluation of Three STP's at Ludhiana based on UASB+Aeration+FPU system treating Sewage.

References

1. Roy Posmanik

Research Scientist

Agricultural Research Organization – Volcani Center

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Newe Ya'ar Research Center , Israel.

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2. Dr. Beni Lew

Head of The Department

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3. Dr. Abid Ali Khan

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4. Prof. Anwar Khursheed

Professor

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