

Dr. SIRAJUDDIN AHMED

Designation

Professor

Office-Address

Department of Civil Engineering
Faculty of Engineering & Technology
Jamia Millia Islamia (A Central University)
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Major Research Interest

- Constructed Wetlands and other Natural Wastewater Treatment Technologies,
- Recycling & Reuse of wastewater
- Industrial Effluent Treatment,
- Urban Utility Services
- Sustainable Development,

Software Developed:

- Gaussian Plume Model for prediction of impact on Air Quality by Thermal Power Plants
- Simulation model for Constructed Wetland and optimization of its Surface Area

Teaching and Research Experience 26 years

Administrative experience 4 years

PhD Guided 11

Research Publications: 167

Citations 1412

H index 19

Patents 5

Books 7

Total Funding Received: 12 million IRS

International Visits:

Germany, USA, UK, France, Switzerland, Italy, Hong Kong, Turkey, Sri Lanka, Thailand, UAE, Russia Netherlands, Sudan

Conferences/Workshop Organised 14

ACADEMIC

PROFESSIONAL QUALIFICATION

Degree/Exam	Topic/Specialization	University	Year	Remark
Ph. D	Optimization of Constructed Wetland Treatment for Sub-tropical Climate.	University of Wales, U.K.	2008	
Master of Engineering	Environmental Engineering	Delhi College of Engg. (Delhi University)	1992	78.13% Rank-II
Bachelor of Engineering	Civil Engineering.	Jamia Millia Islamia	1989	8.87/10*

AWARD/SCHOLARSHIP RECEIVED

S. No.	Title	Awarding Agency	Duration
5	National Green Award	Environment and Social Development Association (ESDA), Delhi (India)	2019
4	Young Scientist Research Award	Department of Science & Technology. (Govt. of India)	2003-2006
3	Gate Scholarship	University Grants Commission, (Govt. of India)	1990-1992
2	Merit Scholarship	IDB, Jeddah KSA	1985-1989
1	Merit Scholarship	Jamia Millia Islamia	1985-1989

MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Title	Professional Body
6	Fellow Member	Wessex Institute UK
5	Fellow Member	Institution of Engineers INDIA
4	Life Member	Indian Society for Environmental Management
3	Life Member	Indian Society for Technical Education
2	Executive Member	JMI Chapter of Indian Society for Technical Education
1	Member	Ecological Society of America

TRAINING & REFRESHER COURSE ATTENDED

S. No.	Title	Organization	Duration
11	Leadership in Academic Programme (LEAP)	Ministry of Human Resource Development (GOI)- TISS Mumbai.	20-31 January 2020
10	Statistical Methods and Analysis of Environmental Health Data	The Harvard Chan School of Public Health (USA) , The Public Health Foundation of India, and the Indian Statistical Institute	May 30 – June 3 2016
9	E- Learning in Higher Education	Academic Staff College, Jamia Millia Islamia	4 -9 January 2010
8	Computer Aided Learning in Engineering & Technology	Jamia Millia Islamia	16-30 March, 2005
7	Mathematical Modeling & Prediction in Engineering	Indian Institute of Technology (Delhi)	23-27 June, 2003
6	Environmental Economics	United Nation Environmental Programme (UNEP) & Indian Institute of Technology (Mumbai)	10 Feb.- 8 Mar. 2003
5	Municipal Solid Waste Management Systems	Indian Institute of Technology (Delhi)	12-16 April, 1999
4	Groundwater Assessment and Modeling	Indian Institute of Technology (Delhi)	13-17 July, 1998
3	Energy Management & Utility Engg.	Jamia Millia Islamia	20 May- 2 June 1995
2	Combustion Generated Pollution	Jamia Millia Islamia	13-24 Dec., 1994
1	Instruction Methodology	Indian Institute of Technology (Delhi)	6-11 June, 1994

PROFESSIONAL EXPERIENCE

Teaching Experience

28 years, including 25 years at Post graduate Level

Field Experience

1 year

July 2011 to till date

Professor Department of Civil Engineering, Jamia Millia Islamia, New Delhi

Responsibilities included teaching at the undergraduate and post-graduate level. Research and Academic planning. Administrative responsibilities. Currently supervising three M. Tech. and 11 Ph.D. candidates.

July 2008 to July 2011

Associate Professor Department of Civil Engineering, Jamia Millia Islamia, New Delhi

Responsibilities included teaching at the undergraduate and post-graduate level. Actively involved in the research activities of the Department. Guided many B.Tech. Projects and M. Tech. Dissertations.

July 2005 to June 2008

Lecturer (Selection Grade) Department of Civil Engineering, Jamia Millia Islamia.

Responsibilities included teaching at the undergraduate and post-graduate level. Actively involved in the research activities of the department. Guided many B.Tech. Projects and M. Tech. Dissertations.

July 2000 to June 2005

Lecturer (Senior Scale), Department of Civil Engineering, Jamia Millia Islamia, New Delhi

Responsibilities included teaching at the undergraduate and post-graduate level. Actively involved in the research activities of the department. Have been actively involved in the curriculum development exercise for the courses related to environmental Engg. Guided many B.Tech. Projects and M. Tech. dissertations.

February 1993 to July 2000

Lecturer, Department of Civil Engineering, Jamia Millia Islamia, New Delhi

Responsibilities included teaching at the undergraduate and post-graduate level. Made valuable contributions in the setting up of Environmental Engineering laboratories for the under-graduate and post graduate programmes of the department. Guided many B.Tech. Projects and M. Tech. Dissertations. Started Post-graduate programme (M. Tech. Environmental Engineering) and contributed actively from inception stage to the designing of course structure, syllabus and examination rules for this programme.

July 1996 to May 1998

Visiting faculty at School of Planning and Architecture, Indraprastha Estate, New Delhi 110002.

Responsibilities included teaching of Urban Utilities.

January 1991 to June 1992

GATE SCHOLAR, Department of Civil Engineering, Delhi College of Engineering, Kashmiri Gate as per UGC instruction Responsibilities included Tutorial and Practical Classes of Environmental Engineering courses. at under-graduation level.

August 1989 to July 1990

Worked as **Design Engineer** with Unique Engineers Sidharta Extension (New Delhi).

Responsibilities included design and analysis of structures.

COURSES TAUGHT

Undergraduate Level

S. No.	Course
6	Elements of Environmental Sciences (Introduction of basic concept of Environmental Science, air, water, noise, deforestation energy)
5	Solid Mechanics (Basic of Solid mechanics of material, S F., BMD)
4	Design of Water Supply System (Elective Course)
3	Environmental Engineering –I (Water quality treatment and supply)
2	Environmental Engineering –II (Wastewater, quality, treatment, collection and disposal)
1	Utilities & Services Planning (Services for Solid waste, water supply, sewerage and drainage system and rainwater harvesting)

Post-graduate Level

S. No.	Course
8	Water Treatment –II (Sewage its characteristic, treatment and disposal)
7	Environmental Impact Assessment
6	Water Treatment –I (Water quality, collection and treatment)
5	Air Pollution (Sources, Effects, Meteorology, Dispersion)
4	Design of Urban Environmental Services (Water Supply, drainage and Sewerage)
3	Industrial Wastewater Pollution Control (Industrial Effluents, characteristic, treatment and disposal)
2	Air and Noise Pollution Control Devices (Wastewater, quality, treatment, collection and disposal)
1	Planning of Urban Services (Services for Solid waste, water supply, sewerage and drainage system and rainwater harvesting),

RESEARCH GUIDANCE

Ph. D.

Awarded

Under Progress

Current Vacancies as on 1-9-2021

11

6+2[#]=8

2

Ph.D. Awarded

S. No.	Title	Student	Year of Award
11	Assessment of Energy Recovery Potential from Vegetable/Fruit Waste Under Subtropical Climatic Conditions *	Mahd Zia	2021
10	Enhanced Nutrient Removal from Municipal Wastewater	Mohd Najibul Hasan	2020
9	Analysis of Hospital effluent and efficiency evaluation of various treatment technologies	Aastha Dhingra	2019
8	Treatment of Coke Oven Effluent by Steelmaking Slag and its Implication on Cementations Properties	Yogesh Dhoble	2019
7	Flood Management and Modeling for River Yamuna in Capital Territory of Delhi	Mukesh Kumar	2019
6	Flood Risk Assessment and its Mitigation for Sustainable Development in Urban Areas	Farhat Rafique	2019
5	Technology Assessment and Technology Forecasting for Emerging Green Technologies: A Sectoral Approach	Ambrish Saurakhia	2019
4	Assessment of Environmental Contamination by E-waste and its Recycling Potential for Sustainable Development	Rashmi Makkar	2018
3	Development of Air Pollution Index and its Interpretation for Metropolitan Cities of India	Sanjoy Maji	2017
2	Impact of Leachate Re-circulation on the Substrate and Quality of Leachate.	R. K. Joshi	2016
1	Analysis of Water Consumption Pattern and its Reuse in Five Star Hotels	Siddharta Gautam	2015

*Submitted

Ph. D. in Progress

S.No.	Title	Student	Status
8	Functional anoxic microbial community characterization from cow dung and its application in sewage treatment	Sameer Hussain Mir	In progress
7	Drug Residue Contamination in Aquatic Environment and their Bioaccumulation in Green Leafy Vegetables #	Suryiah Akhtar	In progress
6	Leaching of Heavy Metals from Industrial Solid Waste	Waseem Ullah Khan	In progress
5	In-situ Study of leachate recirculat. at an Active Landfill Site	Sanjeev Kumar	In progress
4	Treatment of Drug Residue (Emerging Contaminants) in Hospital Effluent by Combination of Physio-chemical and Biological Process treatment Process	Nadeem Ahmed Khan	In progress
3	Strategic Planning for Optimal Utilization of Water Resources Under Extreme Events for Narmada River basin	Pratul Shrivastava	In progress
2	Development of Anaerobic Process for low strength Municipal wastewater treatment in subtropical Climate	Zainab Jalis	In progress
1	Spatial Monitoring and assessment of Trihalomethanes (THMs) in Municipal Waste Supply System#	Mohd. Amir Mazhar	In progress

Co-Supervisor

S. No.	Title	Student	Year
56	Investigation of Top Soil Contamination at Unorganized Plastic Waste Handling Site	Mohd. Sharib Khan	2021
55	Assessment of Short lived Climate pollutant from landfill sites : A case study using SWEET	Nirbhay Kumar Singh	2021
54	Impact of Industrialization and Urbanization on ground water quality for Kabul City	Mohammed Ajaan	2021
53	Potable water demand and its supply for Kabul City	Masoom Khalil	2020
52	Impact of leachate recirculation on Non-Engineering Landfill site	Khawar Raina	2020
51	Economic Feasibility Study of Urban Solid Waste Management at Micro Level	Tariq Sheikh	2019
50	Treatment Efficiency of Drug Residues in Hospital Effluents Using Ozonation & Peroxone Treatment Processes.”	Chander Parkash	2019
49	Design of Desilting and dewatering system for sewerage network	Naved Ahmed	2018
48	Design of Low-cost evaporator for ZLD of small effluent treatment Plant	Manu Bedi	2018
47	Economic Feasibility Study of Urban Solid Wastes Management at Micro Level	Ashish Upadhaya	2018
46	Radio Pharmaceutical Wastewater, Characterization and its management	Pankaj Joheri	2018
45	Comparative Analysis of Design of Sewerage System by Using Various International Codes	Yunus Ali	2017
44	Development of Zero Liquid Discharge System for Tannery	Farheen Mirza	2017
43	Feasibility Study of Zero Liquid Discharge for Thermal Power Plants in India	Rithesh Dahikar	2017
42	Development of Low-Cost Floating Decanter for SBR and its performance analysis	Sumit Yadav	2016
41	Development of Frame work for selecting Most Cost-Effective Technique for Sewage Treatment	Pankaj Bishnoi	2016
40	Risk Assessment of Water Supply Lines Under Earthquake Forces	Huma Khan	2016
39	Assessment of Leachate Characteristics of various Landfill Sites of Delhi	Sanjeev Kumar	2015
38	Use of Fume Waste of Silicon Industry in High Performance Concrete	Mohsin Ali	2015
37	Use of Ultrafine Slag in High Strength Concrete	Shamshad Ahmed	2015
36	Feasibility Study of ISO-14001-2004: A Case study of Faculty of Engineering & Technology, Jamia Millia Islamia (Central University)	Sushant Sabharwal	2015
35	Simulation of Weather Data in Brahmaputra Basin	Rajveer Singh	2015
34	Performance Evaluation of Hospital STP: A Case study of Holy Family Hospital and Fortis Escort Hospital	Abdul Hamid Siddique	2014
33	Use of steel slag for the treatment of ammonia from blast furnace effluent	Wasimullah	2014
32	Assessment of Reuse potential of treated sewage in Faridabad City	Umar Farooq	2013
31	Soot Blowing Optimization to improve Boiler Performance and its impact on combustion of pollution	Lalatendu Pattnayak	2012
30	Disaster Management Plan for Sustainable Development of Leh Town: A Sectoral Approach	Zainab Jalis	2012

29	Treatment of Phenol Using Steel blast	Yogesh Dhoble	2012
28	Greening Thermal Power Plant: A study on Water Conservation	Suraj Aggarwal	2011
27	Transport Measures to reduce Vehicular Pollution: A Case Study of NOIDA Metro Rail Corridor	Ashok Kumar Agarhari	2011
26	Flood Risk Mitigation and Management: A case study of Delhi	Mukesh Kumar	2010
25	Development of Environmental Management Plan for Haridwar City	Umesh Chandra	2010
24	GAP Analysis for Current Bio-Medical Solid Waste Management Practices: Case Study Delhi	Nadia Maryam	2009
23	Characterization of Solid Waste Management: Case Study of NDMC Area, New Delhi	A. K. Garg	2009
22	Impact of Unorganized Segregation on the Quality of Solid Waste	Shailaish Kumar	2009
21	Trend of Real Estate in India (MBA PROJECT)	Badrul Hasan Siddique	2008
20	Impact of E Waste De-Manufacturing Unit on Soil and Nearby Drain	Rashmi Makkar	2008
19	Green Technologies for Printing Unit	Anamika Sagar	2007
18	Impact of active Landfill site on Vadose Zone Contamination	R. K. Sharma	2006
17	Impact of Hindon River on Ground Water quality of Greater Noida	Bhangwan Singh	2006
16	Hazardous Waste Management: A Case Study of Delhi	Satvinder Singh	2005
15	Impact of PUC Certification on Vehicular Pollution	Satveer Singh	2005
14	Comparative Evaluation of Two Different Air Quality Monitoring Regime: A Case Study Delhi	R. K.Joshi	2004
13	Ground Water Quality Mapping under Landfill Sites: Case Study of Delhi	Arshad Majeed Zahori	2003
12	Comprehensive Water Management Plan for Jindal Steel & Power Ltd. Raigarh.	Rajiv Yadav	2002
11	Design of Aquifer Recharging System for Dwarka Township	O.P. Verma	2001
10	Design of Traffic Signal System for Air Quality Improvement	V. K. Mehta	2001
9	Performance Evaluation Study of Root Zone Treatment System	R. Bansal	2001
8	Development of Master Plan for Water Supply and Sewerage System for 2011 for NOIDA	R. S. Yadav	2000
7	Modeling of Air Pollution by Thermal Power Plants in Delhi	Intisar Qamar	2000
6	Movement of Leachate (Zn) Through Unsaturated Soil	Kazim Ali Khan	1999
5	Bio-methanation Potential (Energy Recovery) Of Food Waste: A Case Study for Fruit &Vegetable Mandi Waste at Okhla, New Delhi	Satvinder Singh	1999
4	Utilization of Flyash in Cement Mortar	Abdul Ahad	1998
3	Total Water Management (TWM) for sustainable Development of Mini Township in Arid Zone	Hanuman Singh	1998
2	Air Quality Mapping of South Delhi	Maga Singh	1997
1	Chemical Stabilization for Mass scale Utilization of Flyash	Feroz Anwar	1997

RESEARCH PROJECTS

Total Funding Received:

6 million IRS

SOFTWARE DEVELOPED

2. Developed Window Based Software on Gaussian **Plume Model for prediction of impact on Air Quality by Thermal Power Plants- Year 2000**
1. Developed Simulation model for the prediction of **Effluent BOD concentration in Constructed Wetland and optimization of its Surface Area- Year 2008.**

PROJECTS UNDERPROGRESS

S. No.	Title	Funding Agency	Funding (Rs Million)	Duration
11	Performance Evaluation Study of 14 Ranney Wells located in Faridabad	<i>Municipal Corporation of Faridabad</i>	0.95	2021-2021
10	Identification and Characterization of Drug residue in Hospital Effluent	<i>Department of Environment, Govt. of NCT Delhi</i>	1	2018-2019

PROJECTS COMPLETED

S. No.	Title	Funding Agency	Funding (Rs Million)	Duration
9	TA and TF For the use of Fly ash in Road Embankment and Bridges	<i>TIFAC, Department of Science & Technology, Govt. of India,</i>	1.35	2010-2013
8	Quality Assessment Study for the Raising and strengthening of Embankment of River Yamuna from Nizamuddin Railway Bridge to Road Bridge.	<i>Irrigation and Flood Control Department Govt. of NCT of Delhi</i>	0.6-	2010-2011
7	Performance Evaluation and Social Impact Study of provision of potable water Supply Under Indira Gandhi Water Supply Scheme, Gurgaon, Haryana	<i>HUDA, Haryana Government</i>	0.29	2010-2011
6	Performance Evaluation of Water Supply Augmentation for Mewat District, Haryana	<i>Public Works Department Palwal, Haryana</i>	0.35	2009-2009
5	Feasibility Study for Zero Discharge and Zero Solid Waste Disposal of Five Stars Hotel in Delhi	<i>Department of Environment, Govt. of NCT Delhi</i>	0.97	2008-2009
4	<i>Study of Leachate Movement (Trace elements) through Vadose zone</i>	<i>Department of Science & Technology, Ministry of Science & Technology Govt. of India,</i>	0.85	2003-2007
3	<i>Research Needs & Priorities in Water, Sanitation and Health: University Prospective</i>	<i>W.H.O. South-east Asia Regional Office, New Delhi</i>	\$ 1000	2004
2	Performance Evaluation Study of Root Zone Treatment Plant for Dairy Waste	<i>Central Pollution Control Board, Ministry of Environment</i>	0.28	2000-2002
1	Mass Scale Utilization of Flyash	<i>UGC, Govt. of India</i>	0.37	1994-96

ACADEMIC CONTRIBUTION

Total Funding Received for Lab and Infrastructure

6 million INR

1. **Co-Ordinator M. Tech Program in Environmental Sc. & Engineering since inception of the course (1994-2019)**
2. Proposal submitted for **starting of M. Tech Program in Environmental Sc. & Engineering** to AICTE (Course Awarded-1996) with the funding of Rs **40 lacs**
3. Instrumental in designing Course structure, Syllabus & Examination rules for **M. Tech Program in Environmental Sc. & Engineering**.
4. **Developed P.G. Environmental Engineering Lab**, supported by special grant of **Rs 7.5 Lacs** from U.G.C. Govt. of India (1995-97)
5. **Modernized Environmental Monitoring Lab**, supported by grant of **5 lacs** from All India Council of Technical Education, Govt. of India, (1997-98)
6. **Developed P.G. Environmental Engineering Lab**, supported by grant of **8 lacs** from All India Council of Technical Education, Govt. of India, (2002-2004)

INTERNATIONAL ACADEMIC VISITS

S. No.	Country	Year	Purpose
13	GERMANY SUDAN	2019	Erfurt University of Science and Engineering, under DAAD Exchange programme
12	GERMANY NETHERLANDS	2017	Erfurt University of Science and Engineering, under DAAD Exchange programme
11	GERMANY RUSSIA	2015	Erfurt University of Science and Engineering, under DAAD Exchange programme
10	GERMANY ITALY	2014	Erfurt University of Science and Engineering, under DAAD Exchange programme
9	GERMANY SWITZERLAND	2013	Erfurt University of Science and Engineering, under DAAD Exchange programme
8	GERMANY FRANCE	2012	Erfurt University of Science and Engineering, under DAAD Exchange programme
7	GERMANY	2010	Erfurt University of Science and Engineering, under DAAD Exchange programme
6	HONG KONG	2010	16th Annual International Sustainable Development Research Conference 2010, 30 May – 1 June, 2010 the University of Hong Kong, Hong Kong.
5	USA	2009	Session Chairman and talk at International Conference and 94th Annual Meeting of Ecological Society of America, Albuquerque, New Mexico
4	TURKEY	2006	Jury Member of International Environmental Olympiad and Visit to Fateh University, Istanbul
3	UK	2005 - 2008	Ph D Programme
2	THAILAND	2004	Rapporteur for a session and present a talk at WHO Workshop at Bangkok
1	SRI LANKA	2004	Visit to Colombo University

REVIEWER OF RESEARCH JOURNALS

S. No.	Journal
11	Journal of Cleaner Production Elsevier
10	Int. J. of Environment and Waste Management (IJEWM) Inderscience
9	International Journal "Current Science"
8	International Journal "Natural Resources and Conservation" USA
7	International Journal "Atmospheric Pollution Research" Elsevier
6	ICEII Conferences Organized by Asia-Pacific, Biological & Environmental Engineering Society
5	International Journal "Science of the Total Environment" Elsevier
4	Journal of "Waste and Resources Management" <i>Institution of Civil Engineers (UK)</i>
3	African Journal of "Environmental Science and Technology"
2	Indian Journal of "Environmental Protection"
1	Indian Journal of "Engineering & Materials Sciences"

JURY MEMBERS OF INTERNATIONAL EVENTS/RESEARCH ORGANISATIONS

S. No.	Country	Event
3	UK	Natural Environment Research Council (NERC), UK (2011)
2	USA	The First Annual International Sustainable World (Energy, Engineering & Environment) Project Olympiad (ISWEPP-08), HOUSTON USA (2008)
1	TURKEY	International Environmental Project Olympiad (INEPO) Fateh University, Istanbul (2006)

CORPORATE CONTRIBUTIONS

National Level

1. Member of Delhi State Environmental Impact Assessment Authority (SEIAA) Oct 2021.
2. Expert Evaluator of NBA Accreditation.
3. Evaluation Committee Member of various schemes of DST, Ministry of Science & Technology, Govt of India.
4. Committee member "Development of Guidelines for Transportation of X-Ray fixer and Developer" Delhi pollution Control Committee, Delhi Government 2018.
5. Committee member "Development of Terms of Reference For "E-Waste Inventorization in the State NCT of Delhi" Delhi pollution Control Committee, Delhi Government 2018
6. Ganga Mission Committee for inspection of Gross polluting Industries in Ganga Basin 2018, 2019, 2020.
7. Committee member "Norms for Buildings and External Development for Central university" Ministry of Human Resource Development, Govt. of India, 2017.
8. Member Committee for Comprehensive Audit of Two Biomed Waste Treatment Facilities of Delhi – Delhi pollution Control Committee, Delhi Government 2017
9. Committee member "Preparation of Seniority list of Professor" Kashmir University, Srinagar 2016
10. Member of National Experts Committee on Ganga Water Quality" Ministry of Environment and Forest Government of India 2015.
11. Committee member "Development of Guidelines for zero discharge concept in five-star hotels of Delhi" Delhi pollution Control Committee, Delhi Government 2012.
12. Member of National Experts Committee on Steel Industry Effluent Treatment" Ministry of Iron and Steel Government of India 2012.
13. University representative for **META UNIVERSITY** projects Ministry of Human Resources and Development Government of India 2012.

University Level

1. **University Observer** for Entrance Test Examination: 2020-21.
2. **Member: Centenary Gate: Celebration of 100 years of Jamia** 2020
3. **Prof. Incharge** Building and Construction Department, 13th November 2015 to 6 February 2020
4. **Incharge-Technical Committee** Building and Construction Department, 13th November 2015 to 6 February 2020
5. **Team Leader Infrastructure Committee "Annual Convocation from 2015 to 2019"**
6. **Chairman** of Committee "Rationalisation of out Sourcing staff" Jamia Millia Islamia 2016
7. Chairman of Committee "update/reframe /amend the existing recruitment and promotion rules of non-teaching positions in Jamia Millia Islamia 2016.
8. Committee member "Counting of Past Services of Teachers" Jamia Millia Islamia 2017
9. Member of Jamia Eco Club 2007 till Date
10. Incharge faculty Auditorium 2011 till date
11. Member of Technical Committee Building and Construction Department 2007 till 2010
12. Faculty-in-charge, Environmental Engineering Laboratory, Civil Engineering Department 1998- 2014
13. Tabulator of Examination results of B. Tech and M. Tech. 2004,2005, 2006 and 2007

14. Assistant Superintendent of Entrance Test Examinations of various courses of the university
15. Assistant Co-ordinator for Entrance Test Examinations of Faculty of Engineering and Technology
2004-2007, 2010, 2011,2012,2013
16. Member Reception Committee “**Annual Convocation-2009**” 2009
17. Member of Prospectus Committee of Faculty of Engineering & Technology
2001,2012,2013

CONFERENCES & WORKSHOPS ORGANIZED

S. No.	Capacity	Title	Year
15	Organizing Secretary	Lecture on Creating a Winning Resume	13 March 2020
14	Convener	International conference Smart Cities: Opportunities and Challenges	14-16 March 2019
13	Organizing Secretary	International Seminar on Water Pollution and Health	July 27-28, 2017
12	Convener	National Workshop on Green Buildings in India: Present Practices and Future Prospects	August 27, 2015
11	Organizing Member	Remote Sensing and GIS for Environmental Management (RSGIS-EM2010)	August 10, 2010
10	Convener	Ecology & Environmental Sciences Session of XXXII Indian Social Science Congress	December 18-22 2008
9	Organizing Member	National Conference on Geotechnical and structural Aspects of Earthquake Engineering	August 4 - 5 2007
8	Convener	Workshop on Sustainable Development	March 10 2006
7	Organizing Member	International Conference on Energy & Environment – Strategies for Sustainable Development (ICEE-SSD),	January 23-24 2004
6	Organizing Member	Third Global Conference on Flexible Systems Management Theme: Technology Transfer Innovation and Flexibility for Reshaping the World	March 13-15 2004
5	Convener	Workshop on Disaster Management,	Sept. 28-29 2000
4	Organizing Member	International Conference on Environmental Challenges for New Millennium	Nov. 25-27 1999
3	Organizing Member	International Conference on New Challenges for Civil Engineers of Developing Countries in the 21st Century	Feb. 29 -2 March 1996
2	Convener	Workshop on Mass Scale Utilization of Fly ash.	August 11. 1996
1	Convener:	Workshop on Environmental Problems of Mega Cities.	December 9 1995

PUBLICATIONS

BOOKS

1. Translated a book of **Environmental Sciences** from Hindi to Urdu for SCERT Delhi
2. **Mass Scale Utilization of Fly Ash** edited by Prof. Iqbal H. Khan and Sirajuddin Ahmed
3. **Green Building in India: Present Practices and Future Prospects** Edited Book Edited Prof. Sirajuddin Ahmed, Dr. Saif Said, Mr. Shamsuddeen A K. ISBN 8182300897 Published by CAD PLAN Publisher and Distributor, New Delhi 2015.
4. **Advanced Treatment Techniques for Industrial Wastewater** by Athar Husain and Sirajuddin Ahmed, ISBN 9781522557548 Published by IGI Global, New York, 2018.
5. **Water and Health** Edited Book by Prof. Sirajuddin Ahmed, Prof. Naved Ahsan, ISBN 978-93-5053- Publisher Rawat Parkashan, New Delhi 2019
6. **Smart Cities—Opportunities and Challenges: Select Proceedings of ICSC 2019** Edited Book, by Sirajuddin Ahmed, S. M. Abbas, Hina Zia Publisher Springer Nature (2020)
7. **Pharmaceutical Wastewater Treatment Technologies: Concepts and Implementation Strategies** Edited Books by Nadeem Ahmed Khan, G. R. Sinha, Sirajuddin Ahmed, Viola Vambol, Sergij Vambol Published by International Water Association (IWA) USA (2020)

CHAPTERS

1. **Air Pollution** in a book Titled **Understanding Man - Made Disasters (MPA-002)** publisher Indira Gandhi Open University (IGNOU) It is available on **Gayankosh** also <http://egyankosh.ac.in/handle/123456789/64015>
2. **Air Pollution** in a book Titled **Understanding Man - Made Disasters (MPA-002)** publisher Indira Gandhi Open University (IGNOU) It is available on **Gayankosh** also <http://egyankosh.ac.in/handle/123456789/64016>
3. **Deforestation** in a book Titled **Understanding Man - Made Disasters (MPA-002)** publisher Indira Gandhi Open University (IGNOU) It is available on **Gayankosh** also <http://egyankosh.ac.in/handle/123456789/64017>
4. **Industrial Water Pollution** in a book Titled **Understanding Man - Made Disasters (MPA-002)** publisher Indira Gandhi Open University (IGNOU) It is available on **Gayankosh** also <http://egyankosh.ac.in/handle/123456789/64018>
5. **Advances and Application of Nano Technology**, In Book Titled **Smart Nanotechnology with Applications** published by CRC Press
6. “Simulation of the formation process of spatial fine structures in environmental safety management systems and optimization of the parameters of dispersive devices” in book titled **Modern Optimization Methods for Science, Engineering and Technology** Edited by G R Sinha ISBN 978-0-7503-2402-1 (print) Published by IOP Publishing, wholly owned by The Institute of Physics, London Pages 14-1 to 14-38
7. **Pharmaceutical presence in effluent detected till date** – In Book titled **Pharmaceutical Wastewater Treatment Technologies** edited by by Nadeem Ahmed Khan, G. R. Sinha, Sirajuddin Ahmed, Viola Vambol, Sergij Vambol, Publisher IWA Publishing USA
8. **Prioritisation of pharmaceutical in effluent considering its biohazard** – In Book titled **Pharmaceutical Wastewater Treatment Technologies** edited by by Nadeem Ahmed Khan, G. R. Sinha, Sirajuddin Ahmed, Viola Vambol, Sergij Vambol, Publisher IWA Publishing USA
9. **Pharmaceutical Wastewater Treatment Technologies** – In Book titled **Pharmaceutical Wastewater Treatment Technologies** edited by by Nadeem Ahmed Khan, G. R. Sinha, Sirajuddin Ahmed, Viola Vambol, Sergij Vambol, Publisher IWA Publishing USA

Journals

S. No.	Paper Details	Year	Listed in
107	Mahd Zia, Sirajuddin Ahmed, Anil Kumar. Environmental Impact of Food, Fruit and Vegetable Waste during COVID-19 Pandemic: A Review. Journal of Clinical & Diagnostic Research Volume 15 Issue 6	2021	Scopus
106	Nadeem A, Khan, Sirajuddin Ahmed, Izharul Haq, Imran Ali. Innovative method used in modern time for the treatment of hospital wastewater, international journal of Environmental Analytical Chemistry, Publisher, Taylor & Francis Published on line on 30 July 2021	2021	WOS & Scopus
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29	Aastha Dhingra, Sirajuddin Ahmed, Nadeem Ahmad Khan, Siddhartha Gautam, & Svitlana Kovalenko “Analysis of wastewater from medical institutions in India” First International conference of Sustainable Development in energy & environmental (18 - 20 July, 2019, Department of Biotechnology). - New Delhi, 2019. - P. 46.	2019	Peer reviewed
28	El Morabet, Rachida; Khan, Roohul Abad; Khan, Nadeem A, Ahmed, Sirajuddin; Dhingra, Aastha. Fluidized Aerobic Batch Bio-Reactor and Sequencing Batch Reactor Performance Evaluation for Hospital Wastewater Treatment 4th International Conference on Civil, Environmental, Geology and Mining Engineering July 2019, Trabzon, Turkey	2019	Peer reviewed
27	Nadeem Ahmad Khan, Sirajuddin Ahmed, Sergij Vambol, Viola Vambol S Kozub, P Kozub, S Mehtab Hospital wastewater treatment scenario development In Congress proceedings “VIIth All Ukrainian Ecologist with international participant 25/9/2019 Ukraine	2019	Peer reviewed
26	Waqas mirza, Mohd. Najibul Hasan, Sirajuddin Ahmed, Shakeel Afsar, Abid Ali Khan “Nutrient Removal from Primary Treated Sewage by Aquatic Weeds as a decentralized treatment.” In Edited Book titled <i>“Water pollution and Health”</i> ISBN 978-93-5053- Publisher Rawat Parkashan, New Delhi	2019	-
25	Aastha Dhingra, Sirajuddin Ahmed, Weqar Ahmed, Siddiqui and Siddhartha Gautam “Occurrence and implications of pharmaceutical residues in aquatic environment” In Edited Book titled <i>“Water pollution and Health”</i> ISBN 978-93-5053- Publisher Rawat Parkashan, New Delhi	2019	-
24	Nadeem A Khan, Sirajuddin Ahmed, Arshad Hussain, Fazlollah Changani, Kausher Hussain Review on SBR (Sequencing Batch Reactor) Treatment’s technology of Industrial Wastewater In Edited Book titled <i>“Water pollution and Health”</i> ISBN 978-93-5053- Publisher Rawat Parkashan, New Delhi	2019	-
23	Mohammed Sharif, Mukesh Kumar and Sirajuddin Ahmed “Need of flood Proof Housing in Flood plains of River” <i>Proceedings of the International Conference and Exhibition on Building Utilities -2016 at New Delhi India, Organised by Department of Mechanical Engineering, Jamia Millia Islamia 1-3 December 2016 Pub. Enriched Publications Pvt Ltd, pp 435-442</i>	2016	Peer reviewed
22	Sirajuddin Ahmed, Rupinder Narang and Rajkumar Joshi “Urban Rain Water Harvesting Need and Comprehensive Approaches” <i>Proceedings of the International Conference and Exhibition on Building Utilities -2016 at New Delhi India, Organized by Department of Mechanical Engineering,</i>	2016	Peer reviewed

	<i>Jamia Millia Islamia 1-3 December 2016 Pub. Enriched Publications Pvt Ltd, pp 411-418</i>		
21	Sirajuddin Ahmed, Chander Partap Singh and Sidhartha Gautam “Modular Construction: A sustainable Construction Technology” Municipal solid waste as a source of energy ” <i>Proceedings of the International Conference and Exhibition on Building Utilities -2016 at New Delhi India, Organized by Department of Mechanical Engineering , Jamia Millia Islamia 1-3 December 2016 Pub. Enriched Publications Pvt Ltd, pp 29-38</i>	2016	Peer review ed
20	R K Joshi, Sirajuddin Ahmed “Municipal solid waste as a source of energy” <i>Annual IEEE India Conference (INDICON-2015) New Delhi India</i>	2015	Peer review ed
19	Sirajuddin Ahmed, Sidharth Gautam, Kafeel Ahmed, Sanjoy Maji “Assessment of Water Consumption and Reutilization Potential in Hospitality Sector- A Case study of Delhi (Paper ID: ASEE 15-678)” <i>In Third International Conference on Advances in Applied Science and Environmental Engineering - ASEE 2015 at Kuala Lumpur, Malaysia 11-12 April 2015 organized by Institute of Research Engineers and Doctors Malaysia</i>	2015	Peer review ed
18	Sirajuddin Ahmed Rashmi Makkar (2014) “Analysis of Barriers of E-Waste Management Using Interpretive Structural Modeling (ISM) Methodology.” <i>In International Conference on Innovation Trends in Applied Physical, Chemical, Mathematical Sciences and Emerging Energy Technology for Sustainable Development (APCMET-2014)</i> organized by <i>Krishi Sansakriti, JNU New Delhi INDIA, 19-20 April 2014</i>	2014	Peer review ed
17	Sirajuddin Ahmed Rashmi Makkar (2014) “Technology Capacity Building for E- Waste Recycling in India: A Comparison Between the Technology used by Formal and Informal Sectors.” <i>In International Conference on Innovation Trends in Applied Physical, Chemical, Mathematical Sciences and Emerging Energy Technology for Sustainable Development (APCMET-2014)</i> organized by <i>Krishi Sansakriti, JNU New Delhi INDIA, 19-20 April 2014</i>	2014	Peer review ed
16	Sirajuddin Ahmed Sanjoy Maji, Waqar Ahmed Siddiqui (2013) “Improvement of Urban Air Quality with Clean Fuel for Transportation Sector: A Case Study for Delhi, India.” <i>In International Conference on Clean Energy (ICCE 13)</i> organized by <i>International Academy of Energy Mineral and Materials, Ottawa, CANADA 09-11 September 2013</i>	2013	Peer review ed
15	Rashmi Makkar, Sirajuddin Ahmed (2012) “Technology Capacity Building for E-Waste Recycling: A Comparison between technology used by formal and informal sectors.” <i>In International Conference on Green Technology for environmental Rehabilitation (GTER) organized by G. K. University, Haridwar, Uttarakhand, 11-13 February 2012, 45-48</i>	2012	Peer review ed
14	Sirajuddin, Ahmed, R. K. Rathi, Umesh Chandra, (2010) “Waste water treatment technologies Commonly practiced in Major Steel Industries of India” <i>In 16th Annual International Sustainable Development Research Conference 2010, 30 May – 1 June, 2010 the University of Hong Kong, Hong Kong. http://www.kadinst.hku.hk/sdconf10/Papers_PDF/p537.pdf</i>	2010	Peer review ed
13	Sirajuddin, Ahmed, Umesh Chandra, R. K. Rathi, (2010) “Sustainable Ground Water Management -Haridwar City” <i>In 16th Annual International Sustainable Development Research Conference 2010, 30 May – 1 June, 2010 the University of Hong Kong, Hong Kong. www.kadinst.hku.hk/sdconf10/Papers_PDF/p503.pdf</i>	2010	Peer review ed
12	Khalid Moin: Sirajuddin Ahmed; Razi A Usmani; (2009) “Use of Plastic Waste as a by- filler in Cement mortar” <i>In: International Seminar on Waste to Wealth 12-13 November 2009 Organized by Building Material and Technology Promotion Council, Government of India., 327-332</i>	2009	Peer review ed
11	Sirajuddin Ahmed; Viktor Popov; Rasheed Ahmed; (2009) “Application of Constructed Wetland for Rejuvenation of Delhi Stretch of River Yamuna” <i>In International Conference and 94th Annual Meeting of Ecological Society of America, August 2- 7 2009, Albuquerque, USA. Washington, ESA, Paper No. COS 103-9 (CD)</i>	2009	Peer review ed

	http://esameetings.allenpress.com/2009/Paper18540.html .		
10	Sirajuddin Ahmed; Viktor Popov; G.K. Subramaniam (2005) “Sustainability Through Ethical and Engineering Education” In: <i>International Conference on Sustainability and Education, March 20-23 2005 Chennai INDIA.</i> Chennai, Nivethitha Pathippagam Publisher, 168-175	2005	Peer reviewed
9	Sirajuddin Ahmed (2004) “Research Needs and Priorities in Water, Sanitation and Health: University Prospective” In: <i>W.H.O. Regional Workshop of Experts. March 30-31 2004, Bangkok THAILAND.</i> Bangkok, Asian Institute of Technology, (Invited Paper)	2004	Peer reviewed
8	Sirajuddin Ahmed; S.S. Nabi; Akhtar Naseem (2004) “Formation of Tropospheric Ozone in Delhi” In: <i>International Conference on Energy and Environment – Strategies for Sustainable Development (ICEE-SSD), 23-24 January 2004, New Delhi INDIA.</i> New Delhi, Anammaya Publisher (Vol-II) 16-26	2004	Peer reviewed
7	Sirajuddin Ahmed (2002) “Application of Root Zone Treatment System for Dairy Wastewater at Mother Dairy” In: <i>International Conference on Constructed Wetlands for Waste Water Treatment in Tropical and Subtropical Region, December 11-13 2002, Chennai INDIA.</i> Chennai, Anna University, (Invited Paper)	2002	Peer reviewed
6	Mehtab Alam; Sirajuddin Ahmed; Asif Hussain; (1999) “Impact of Treated Waste Water on Cement Concrete Strength” In: <i>International Conference on Environmental Challenges for the New Millennium. New Delhi November 25-27, 1999, New Delhi INDIA.</i> New Delhi, CADPLAN Publisher, 550-557	2000	Peer reviewed
5	S. S. Nabi; Sirajuddin Ahmed; Mohd. Shakeel; Javed Khan (1999) “Decentralised Wastewater Treatment by Low-Cost Root Zone System” In: <i>International Conference on Environmental Challenges for the New Millennium. New Delhi November 25-27, 1999, New Delhi INDIA.</i> New Delhi, CADPLAN, 287-293	1999	Peer reviewed
4	Khalid Moin; N. U. Khan; Sirajuddin Ahmed; M. Abul Hasan; (1999) “Post Earthquake Risk Assessment of Water Distribution System for New Delhi Zone” In: <i>International Conference on Disaster Management: Co-operating Network in South Asia. November 28-30 1999, New Delhi, INDIA.</i> New Delhi, Indira Gandhi National Open University, (Vol-I) 152-158	1999	Peer reviewed
3	N. U. Khan; Gauhar Mehmood; Sirajuddin Ahmed; (1999) “Water Conservation through Land use Planning at New Township in Parts of Jammu (Tawi) District-INDIA” In: <i>South-Asian Countries Conference on Challenges to Architects and Civil Engineering During Twenty- First Century. April 7-9 1999, Kathmandu, NEPAL.</i> Kathmandu, Nepal Engineering College, (Vol-II) 722-727	1999	Peer reviewed
2	Sirajuddin Ahmed; S.M. Muddassir; (1996) “Control of Traffic Delay at Major Intersection for the Improvement of Urban Air Quality” In: <i>International Conference on CAD, CAM, Robotics & Factories of Future. 17-20 Dec. 1996 New Delhi, INDIA.</i> NEW Delhi; Narosa Publishing House, 27-34	1996	Peer reviewed
1	Sirajuddin Ahmed; Asif Hussain (1996) “Fly ash Utilization in India and Government Policies.” In: <i>International Conference on New Challenges for Civil Engineers of Developing Countries in the 21st Century, New Delhi, Feb. 29 March 1-2, 1996, New Delhi, INDIA.</i> New Delhi; Venus Publishing House, 273-278.	1996	Peer reviewed

National Conference/Symposia

S. No.	Paper Details	Year
24	Aastha Dhingra, Sirajuddin Ahmed, Weqar Ahmed Siddiqui, Sidhartha Gautam, Occurrence and implication of Pharmaceutical Residues in Aquatic Environment” <i>In conference on Water Pollution and Health</i> Organized by Department of Civil Engg. Jamia Millia Islamia (July 27-28 2017. New Delhi publisher Cyber Tech Publications, New Delhi pp 219-227	2017
23	Nadeem A Khan, Sirajuddin Ahmed, Arshad Hussain, Fazlollah Changani and Kausar Husain, Review on SBR (Sequencing Batch Reactor) Treatments Technology of Industrial Waste” <i>In conference on Water Pollution and Health</i> Organized by Department of Civil Engg. Jamia Millia Islamia. (July 27-28 2017) New Delhi publisher Cyber Tech Publications, New Delhi pp 153-161	2017
22	Waqqas Mirza, M. Najibul Hasan, Sirajuddin Ahmed, Shakil Afsar, ABID Ali Khan, Nutrient Removal from Primary Treated Sewage by Aquatic Weeds as a decentralized Treatment” <i>In conference on Water Pollution and Health</i> Organized by Department of Civil Engg. Jamia Millia Islamia. New Delhi (July 27-28 2017) publisher Cyber Tech Publications, New Delhi pp 143-146	2017
21	Sirajuddin Ahmed, Gautam Siddhartha, Ahmed Kafeel “Water Reuse and conservation practices for making Hotels green” <i>In conference on Green Buildings in India: Present Practices and Future Prospects</i> Publisher CADPLAN Publication, New Delhi 101-112	2016
20	Sirajuddin Ahmed, RM Panwar. “Analysis of Barrier of E-waste Management using ISM (Interpretive Structural Modeling) Methodology” International Conference on Innovative Trends in Applied Physical, Chemical.	2014
19	Sanjoy Maji, Sirajuddin Ahmed , Waqar Ahmed Siddiqui, Sidharth Gautam, Anil Kumar “The Potential of Di-Methyle Ether (DME) as an Alternative Fuel for compression Ignition Engines: A Review <i>“In National Seminar on Advances in Nanotechnology and Renewable Energy, Department of Applied Science, Jamia Millia Islamia, New Delhi, 28-29th April 2014</i>	2014
18	Sirajuddin Ahmed , Sidharth Gautam, Kafeel Ahmed “Assessment of Water Consumption Pattern in Hospitality Sector with Special Reference to Five Star Hotels in Delhi <i>“In National Seminar on Water Resources Management Achievements and Challenges, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 22nd March 2014</i>	2014
17	Sanjoy Maji, Sirajuddin Ahmed , Waqar Ahmed Siddiqui, Sidharth Gautam, Raj Kumar Joshi “Water Quality Status of River Yamuna in Delhi Stretch with Reference to Organic Pollution Load <i>“In National Seminar on Water Resources Management Achievements and Challenges, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 22nd March 2014</i>	2014
16	Sirajuddin Ahmed , Rajkumar Joshi, N. U. Khan “Municipal Solid Waste Leachate: A threat to Urban Ground Water Quality <i>“In National Seminar on Water Resources Management Achievements and Challenges, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 22nd March 2014</i>	2014
15	Sirajuddin Ahmed , Qamar Irshad, Naved Ahsan” Urbanisation as Harbingers of Climate Change: Indian Scenario” <i>In National Seminar on Architecture for Masses-V, Faculty of Architecture and Ekistics Jamia Mi llia Islamia, New Delhi, 13-14th February 2013</i>	2013
14	Sirajuddin Ahmed ; Mohammed Shakeel; Rashmi Makkar “Electronic Waste Recycling: Opportunity for Resource Recovery or Threat to the Environment” <i>In: National Seminar on E-Waste Management and Recycling in India – Issues and Challenges, Jamia Millia Islamia New Delhi, 17-18 March 2011</i>	2011
13	Sirajuddin Ahmed ; Mohammed Shakeel; Rashmi Makkar “Current Status of E-Waste Management In Delhi” <i>In: National Conference on Economics of Solid Waste Management in India, Jamia Millia Islamia New Delhi, 14 March 2010</i>	2010
12	Mukesh Kumar, Khalid Moin, Sirajuddin Ahmed (2009) “Flood Risk Mitigation and Management Practices in Delhi” <i>In: 2nd India Disaster Management Congress,4-6, November 2009, Vigyan Bhawan, Organised by National Disaster Management Authority New Delhi http://nidm.gov.in/idmc2/session_flood.asp</i>	2009
11	Sirajuddin Ahmed (2009) “Constructed Wetlands Treatment System for	2009

	Common Wealth Games Village, New Delhi - A Sustainable Option” In: National Conference on Management of Water, Air, Noise, Solid Waste, during Common Wealth Games 2010, 6-7 November 2009, Organized by International Development Center Foundation New Delhi	
10	Sirajuddin Ahmed (2009) “CW: A Low-Cost treatment option for wastewater in India” In: National Conference on Economics of Wetlands in India, 30 March 2009, Jamia Millia Islamia New Delhi	2009
9	Sirajuddin Ahmed; Viktor Popov; S. Sikander Nabi (2008) “Constructed Wetlands: Green Wastewater Treatment Technology for Developing Nations of Subtropical Climate” In: Green Summit 2008 (Elements of Green Cities in Indian Context), 1-2 March, 2008 Institute of Environmental Engineers, Agra UP.	2008
8	Sirajuddin Ahmed; Faizullah Khan; Warsi N. H. (2006) “Sustainability of wastewater treatment: aerobic versus anaerobic process” In: Advances in Mechanical Engineering (AIME-2006), January 20-21, 2006 Jamia Millia Islamia New Delhi. New Delhi: Ane Books, 1063-1072	2006
7	Sirajuddin Ahmed (2004) “Air Quality Performance Evaluation” In: Workshop on ISO 4001, 15 May 2004, Indian Society of Environmental Management, New Delhi	2004
6	Sirajuddin Ahmed (1999) “Leachate Generation of MSW Landfill Site and Its Control” In: Workshop on Hazardous and Solid Waste Management of Delhi 25 March, 1999, Indian Society for Environmental Management, New Delhi	1999
5	Khalid Moin; Sirajuddin Ahmed; Abul Hasan. (1998) “Performance of Water distribution System of the Union Territory of Delhi in the Post Disaster Scenario” In: 11 th Symposium on Earthquake Engineering, 17-19 December 1998, University of Roorkee. Roorkee: Ajay Printers and Publishers, 211-218	1998
4	Iqbal H. Khan; Sirajuddin Ahmed; Asif Hussain. (1997) “Design of Road Intersection Signal for Control of Vehicular Pollution” In: National Conference on Delhi Transportation System in 21st Century New Delhi, 23 May 1997, New Delhi. Delhi: Delhi College of Engineering, 1-9	1997
3	Sirajuddin Ahmed; Feroz Islam. (1996) “Mass Scale Utilization of Flyash Using Chemicals” In: Workshop on Mass Scale Utilization of Flyash. 11 August 1996, Jamia Millia Islamia, New Delhi. New Delhi: Hira Publications, 137-150	1996
2	Sirajuddin Ahmed. (1994) “Vehicular Pollution in Delhi and its Control Strategies”, In: Conference on Environmental Management, New Delhi: Delhi College of Engineering	1994
1	Sirajuddin Ahmed. (1993) “Traffic Noise in Delhi: A Growing Menace” In: National Seminar on Environmental Pollution and Its Control, 2-3 December 1993, Sarang, Orissa. Indira Gandhi Institute of Technology Sarang	1993

PATENTS

S. No.	Title and Details	Inventors	Area of Application	Filing Office	PATENT Application No /Patent No.	Year	Staus
6	A Nano absorbent to Capture CO gas	Nastaran Mozaffari Vambol Viola, Ahmed Sirajuddin, Khan Nadeem, Parisa', Vambol Sergij	Air Pollution	Australia	2021100274	2020	Awarded
5	Water purification by Citrus treated peels	Vambol Viola, Ahmed Sirajuddin, Khan Nadeem A, Ziarati, Parisa', Vambol Sergij	Water Treatment	Ukraine	143861/ НАКОРИСНУМО ДЕЛЬ № 143861 СПОСІБ ОЧИЩЕННЯ ВОДИ	2020	Awarded
4	Method Of Water Purification -Utility Based Model	Paris Ziarati, M. H. Dawoodi, K. S. Mykolayivna, V. S. Oleksandrovyh, V. V. Vladislavivna, Sirajuddin Ahmed Nadeem A. Khan,	Water Treatment	Ukraine	U202002228	15-06-2020	Awarded
3	Desilting and dewatering system for sewerage network	Sirajuddin Ahmed, Naved Ahmed	Sewage cleaning	India	2018177003220	2018	Filled
2	Low-Cost Floating Decanter for SBR	Sirajuddin Ahmed, Summit Yadav	Wastewater Treatment Plants	India	(Patent Application Filed)	2015	Filled
1	Use of Steel Slag waste as absorbent and Cementitious Material	Sirajuddin Ahmed, Yogesh Dhoble	Cement Industry and Effluent Treatment	India	1021/Del/2015 349104	2015	Awarded

INVITED TALKS

S. No.	Title	Date
61	Invited Talk on ““Smart Ways of Conceptualizing a Research Paper” Paper” in AICTE-DCRUST One-Week Online Training Programme for Teachers on “Academic Writing and Research” organized by Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Haryana from June 21-26, 2021.	22 nd June, 2021
60	Invited Talk on “Resource’s recovery and Landfill management at 5-Day training Programme on Land Based Water Pollution organized by TERI School of Advanced Studies in association with DHAN Foundation	10 th December 2020
59	Invited Talk on Covid 19 and its impact on Yamuna Water quality”” at Refresher course Environmental Sciences and Education Organized by Department of Geography, Jamia Millia Islamia. From 7-21 October 2020.	13 th October 2020
58	Key note Address titled: Effect of Lockdown on Surface water Quality of Delhi” at Global Water Conference 2020 organized by Environment and Social Development Association (ESDA), Delhi, 2-4 th October 2020	2 nd October 2020
57	Invited Talk “ Wastewater Treatment and Urban water management at Disposal Point: Opportunities and Challenges using Constructed Wetland ” at Regional Conference Environment, Waste Mitigation & Management, Organized by Department of Environment and Climate Change and Department of Urban Local Bodies, Government of Haryana, Gurugram, Haryana held on 10-11 January 2020	10 th January 2020
56	Invited Talk on” Water Management in Smart Cities by Natural Technique: A Critical Issue ” at Smart Cities: Challenges and Opportunities, Faculty Development Programme Under TEQIP –III Organized by Department of Civil Engineerin, AMU, Aligarh on 9-21 December 2019, Aligarh	11 th December 2019
55	Expert Lecture “ WATER Conserve it on Earth or Search it on Mars ” Science Faculty Orientation Programme Organized by The Human Resource Development Centre, Jamia Millia Islamia is	11, November 2019
54	Expert Lecture at Quality Improvement Programme for faculty of Engineering Colleges on “Challenges and Opportunities in MSW waste Management” organized by Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV), Bhopal.	3 rd July 2019
53	Invited Talk “Energy Potential MSW from Planned Urban Sector In Delhi” Master and Graduate students at University of Applied Science Eurfurt , Germany.	17 th June 2019
52	Key Note Address at National Seminar on “Smart cities: Concept & Objectives” organized by The Green Institute for Research & Development (GIRD) on 27 th April 2019, at Conference Hall, Tatyam School of Design, Munirka, New Delhi-110067.	27 th April 2019
51	Invited Talk “Monitoring of Drug Residue in Hospital Effluent” at International Conference “Environmental Analysis India ”organized by Select Bioscience India Private Limited held on 25-26 April 2019 at Hotel Radisson Blu, New Delhi, India.	26 th April 2019
50	Invited talk “Treatment technologies for liquid waste management in healthcare and industry: current and future innovations” at workshop on” Healthcare waste Management, Environmental and occupational Safety” 25-26 April 2019, at India International Center, New Delhi	25 th April 2019
49	Invited Talk “Exploring wealth Potential of municipal solid waste at meso scale: Gated Community” at Indo German Workshop on Waste to Health organized by CSIR: AMPRI, Bhopal, India.	26 th February 2019

48	Key note lecture on “Drug residue Characterization in Hospital Effluent” in National Conference on Management of Bio-Medical Wastes and Air Pollution organized by The Associated Chambers of Commerce and Industry of India and Government of NCT Delhi	13 th February 2019
47	Lecture “Impact of PPCP on Aquatic Ecosystem at Refresher Course on Environmental Studies at UGC Human Resource Development Center. Aligarh Muslim University Aligarh	5 th February 2019
46	Keynote talk on Impact of Drug Residue on Aquatic Ecosystem on International Conference on Global Environmental Challenges, Human health and sustainable Development organised by Environment and Social Development Association (ESDA) Delhi at JNU, New Delhi INDIA	12 th January 2019
45	Prioritization and characterization of Drug residue in Hospital Effluent In TEQIP funded Workshop organised by Civil Engineering Department, AMU Aligarh.	22 nd October 2018
44	DEWAT system (ABR+CW) for Rural Sanitation in large villages of Haryana workshop organized by Public Health Engineering Department, Haryana at Chandigarh	29 th August 2018
43	Impact of e-waste dumping and handling on Soil at Training Program on e-Waste Management August (28 – 30), 2018 Delhi Technological University, Organised by National Institute of Electronics & Information Technology, Govt of India.	30 th August 2018
42	Framework for selection of most economical Sewage treatment Technology workshop <i>End of Pipe Treatment of Waste Water Entering River Yamuna & Ghaggar</i> organized by Public Health Engineering Department, Haryana New Delhi	22 nd June 2018
41	Impact of E waste on Water quality of aquifer near its dumping and handling site. Awareness Programme organized for officers of Government Institute by National Institute of Electronics & Information Technology, Govt of India.	21 st Feb 2018
40	Talk on Drug Residue and Emerging Contaminants” University of Applied Sciences, Erfurt Germany	3 rd July 2017
39	Lecture at “India Hospital Summit 2017 with special emphasis on Bio Medical Waste Management and Supply Chain” organised by PHD House, August Kranti Marg, Siri Institutional Area, New Delhi	17 th March 2017
38	Talk on Air Pollution of Delhi and Its effect on DALY a case Study for Delhi on International Summit on Air Pollution–Health Advisories” being organized by IMA with Confederation of Medical Associations in Asia and Oceania (CMAAO)	10 th March 2017,
37	Popular Lecture “Water and Our existence” at Kirori Mal College, Delhi University, Delhi	9 th March 2017
36	Key Speaker on “Air Pollution in Delhi NCR and Its Effect on Human Health” At IMT Ghaziabad, UP, INDIA	8 th March 2017
35	Expert in the Engineering Science and Technology discipline for 11th Uttarakhand State Science and Technology Congress (USSTC) 2016-17	3 rd March 2017
34	TV Talk on “Road Flooding and Drainage System” _ NDTV	31 st August 2016
33	Lecture at Refresher Course on Environmental Studies at UGC Human Resource Development Center. Aligarh Muslim University Aligarh	17 th September 2016
32	Drug Residue Concentration in Hospital Effluent” University of Applied Sciences , Erfurt Germany	July 2016
31	Lectures on Soil Waste Interaction and Contaminant Transport in TEQIP funded course on Recent Trends in Geo-environmental Engineering” held Department of Civil Engineering , Delhi Technical University.	21 st April 2016

30	Panelist for Session “Looking Beyond the Obvious in water Management” in one day Workshop on “Urban Development-Renewable Energy-Water Nexus: Creating Leadership for Education in India” at TERI University in Vasant Kunj, New Delhi.	29 th March 2016
29	Talk on 4th International Conference on Sustainable Municipal Solid Waste Processing Technology for Developing Nations to be held at Surat (GUJRAT) on 18th and 19th February 2016 organized by WTERT	11 th February 2016
28	Talk as an Expert in Engineering Science & Technology discipline for USSTC 2015-16, Dehradun, UK	1 st February 2016
27	Chairman and Lead Speaker National Conference on Monitoring and Management of Drinking Water Quality – 2015 at Dehradun	22 nd December 2015
26	“Design Philosophy and Concept of Water Distribution System” University of Applied Sciences, Erfurt Germany	4 th June 2015
25	“Design Philosophy and Concept of Sewerage Collection System” University of Applied Sciences, Erfurt Germany	3 rd June 2015
24	Feasibility of Zero Liquid Discharge in Rated Hotel” Organized by Federation of Hotels at New Delhi	27 th December 2014
23	“Research Needs & Priorities in Water, And Sanitation: Indian Prospective” at DAV College, Amritsar DST Sponsored inspire summer camp	4 th October, 2014.
22	“Assessment of Critical Urban Runoff” University of Applied Sciences, Erfurt Germany	21 st May 2014
21	“Uttarakhand Science Congress” Lead Speaker, Environmental Science and Forestry Discipline at 8 th Uttarakhand State Science & Technology Congress	27 th December 2013
20	“Sewerage Treatment System “Gujarat Energy Training & Research Institute, Gotri Road, Vadodara	20 th March 2013
19	“Design of Urban drainage and sewerage system”. Gujarat Energy Training & Research Institute, Gotri Road, Vadodara	20 th March 2013
18	“Water Reuse Potential”. Gujarat Energy Training & Research Institute, Gotri Road, Vadodara	20 th March 2013
17	Water Auditing and Water Conservation on Workshop “Environmental Issues w.r.t Green Hotel Guidelines, Concerning with Five Star Hotels” Organized by Delhi pollution control committee	26 th February, 2013
16	Details of sewers line, man holes, inspection chamber Haryana Public Health Engineering Department, Gurgaon, Haryana	25 th February, 2013
15	Design of STP (Oxides Ponds); Haryana Public Health Engineering Department Gurgaon, Haryana	25 th February, 2013
14	Environmental Engineering: Immerging area of Research BGSB University Rajouri J & K	17 th October 2012
13	“Appropriate climate-responsive technologies for inclusive growth and sustainable development” on “Engineers Day” celebrations by Engineer Association Meerut	15 th Sep 2012
12	Trans boundary Water issues of India and Russia: A tele conference Russian Embassy New Delhi	3 rd October 2011,
11	TV Talk on “Urban Flooding and Drainage System” _ STAR NEWS	22 nd July 2011
10	<i>Research Priorities in Water and Sanitation: Indian Prospective</i> and Guest of Honor World Environment. Day 2011 Meerut University, UP, India	5 th June 2011
9	Emerging Environmental Issues in 12 th Refresher Course in Geography & Environmental Studies Organized by Academic Staff College Jamia	18 th January 2010

	Millia Islamia, New Delhi	
8	Preside and convene a technical session titled “ Community and Technology-based Education (COS-5) ” on August 3 rd 2009 at International Conference and 94th Annual Meeting of Ecological Society of America, Albuquerque, NM, USA	3 th August 2009
7	Green Technology and Sustainable Development , Key note Address on World Environment Day Institute of Engineers and UP Pollution Control Board, Ghaziabad UP	5 th June 2009
6	Application of CW for Possible Tertiary Treatment of Steel Industry Effluent: Research & Development Centre for Iron & Steel, (RDCIS) Steel Authority of India Limited, Ranchi	15 th July 2008
5	Sustainability in Wastewater Treatment by Constructed Wetland , Wessex Institute of Technology, University of Wales UK,	18 th January 2005
4	<i>Environmental Awareness & Sustainable Development</i> , Wessex Institute of Technology, University of Wales UK,	23 rd February 2005
3	Recycling of Wastewater by Root Zone Treatment , organized by Faridabad Industrial Association, Faridabad.	5 th June 2004
2	<i>Performance of Root Zone Treatment for Dairy Effluent</i> at Central Pollution Control Board, Ministry of Environment, New Delhi	14 th February 2003
1	<i>Treatment of Effluent from Silver and Gold Plating</i> , Workshop organized by Sri Ram Research Center at FICCI auditorium, New Delhi	21 st September 2000

LIST OF MAJOR CONSULTANCIES PROVIDED

S. No	Project	Client	Year
80	Vetting of STP based on Anoxic and MBBR Technology for NTPC	NTPC	2021
79	Vetting of Design of Rejuvenation of Lake at District Park, Rohini, Delhi by provision of STP based on Constructed Wetland	Delhi Development Authority New Delhi	2021
78	Design and NIT Document Preparation for upgradation of MBBR based STPs of 4 MLD and & MLD at Sonipat	Public Health Engineering Division Sonipat Haryana	2021
77	Vetting of fecal Sludge treatment Plant FSTP of UP Jal Nigam at various location of Uttar Pradesh	Gomti Pollution Control Unit UP Jal Nigam UP	2021
76	Technical Advice for CW based 275 KLD STP for Pond reclamation and Beatification located at Ismailpur Lucknow.	C & D Division, UP Jal Nigam Div. 6, Lucknow	2021
75	Vetting of STPs at Mandoli Jail	PWD, Govt of NCT Delhi	2021
74	Third Party Quality inspection "400 bedded Hospital Renovation and Upgradation	PWD, Govt of NCT Delhi	2021
73	Monitoring of Gross polluting Industries in Ganga Catchment	Ganga Mission Ministry of Environment and Forest GOI	2020
72	Third Party Quality inspection "Forensic Building for Delhi Police at Rohini	Flood & Irrigation Department, Govt of NCT Delhi	2020
71	Design of Seasonal River Diversion Channel at Dehradun	Slip Tech Consultant	2020
72	Third Party Quality inspection "Construction of Bridge at Najaf Garh Drain	Flood & Irrigation Department, Govt of NCT Delhi	2020
71	Vetting of STP and ETP	Max Hospital	2020
70	Monitoring of Gross polluting Industries in Ganga Catchment	Ganga Mission Ministry of Environment and Forest GOI	2020
69	Design of Chlorination System for STP	Haryana Public Health Department	2020
68	Third Party Quality Supervision during construction of Development Work	Flood & Irrigation Department, Govt of NCT Delhi	2020
67	Monitoring of Gross polluting Industries in Hindon Catchment	Ganga Mission Ministry of Environment and Forest GOI	2020
66	Efficacy of 100 MLD and 80 MLD STP on SBR Technology at Faridabad	Municipal Corporation Faridabad	2020
65	Adequacy of various ETP/ STP for different commercial organizations	Various Pvt Organizations	2020
64	Design & Supervision during Construction of Effluent Treatment Plant for Effluent generating From Fish Market	Delhi Agricultural Marketing Board (Govt. of NCT)	2020
63	Vetting of Decentralized Wastewater Treatment Plant based on ABR & CW for Nagar Nigam Degree College Ismailpur, Lucknow	UP Jal; Nigam, Lucknow	2019
62	Monitoring of Gross polluting Industries in Ganga	Ganga Mission	2019

	Catchment	Ministry of Environment and Forest GOI	
61	Monitoring of Gross polluting Industries in During Kumbh Mela 2019	UP Pollution Control Board	2019
60	Vetting of Design & Supervision of Sewage pumping Station and sewage pressure pipe for 60 MLD sewage Srinagar	NBCC Srinagar	2019
59	Third Party Quality Supervision during construction of Development Work	Flood & Irrigation Department, Govt of NCT Delhi	2019
65	Monitoring of Gross polluting Industries in Ganga Catchment	Ganga Mission Ministry of Environment and Forest GOI	2018
64	Augmentation and optimization water supply system with online monitoring for Ram Manohar Lohia Hospital New Delhi	CPWD, New Delhi	2018
63	Planning, Design and Detailing of Percolating Road (Rainwater Harvesting) and Low-cost Decentralized Treatment System (CW) for Selected Colony of Delhi	Department of Urban Development, Govt. of NCT of Delhi	2018
62	Design of STP plant based on Solar Power at The Ambassador by TAJ Vivanta, New Delhi	Taj Group of Hotel	2018
61	Design of ZLD system for electroplating industry at Greater Noida	Rahul Ion Tech Ltd	2018
60	Waste Water Treatment Plant (Dairy Industry) Using ABR and CW	(M/S Canaan Factories Ltd, Kenya)	2018
59	Third Party Quality Supervision during construction of Development Work	Flood & Irrigation Department, Govt of NCT Delhi	2018
52	Design of Biogas plant of 250 Kg/day for kitchen waste	Holy Family Hospital	2018
51	Monitoring of Gross polluting Industries in Ganga Catchment	Ganga Mission Ministry of Environment and Forest GOI	2018
50	Design of ZLD system for Chip manufacturing industry	Continental Device India Ltd, C-120 Naraina Industrial Area – I New Delhi - 110028	2018
59	Roof Top Solar Panel at National Institute Of Technology, Kurukshetra (Capacity 999.7kWp)	S3 Energy, Greater NOIDA	2018
48	Design of 1 MLD ABR + CW based STP for Rural Area using ABR and CW with Solar Energy	Haryana Public Health Department	2017
47	Rain Water Harvesting System for Oberoi Amar villas Hotel, Agra	Life Green System, New Delhi	2017
46	Rain Water Harvesting System for Trident Hotel, Agra	Life Green System, New Delhi	2017
45	Design of DEWATS (Anaerobic + CW system) for MEWAT	Haryana Public Health Engineering	2016
44	Design of Ranney Wells	HUDA DIV-III Faridabad	2016
43	Design of Ranney Wells	HUDA DIV-III Faridabad	2016
42	Vetting of EIA report for Sewerage collection and treatment of Patna Township	Meinhardt	2015
41	Vetting of EIA report for Sewerage collection and treatment of Kanpur (Bithoor)	UP Jal Nigam	2015
40	Design of Wastewater reuse plant for Metro Hospital	Metro Hospital	2015

	New Delhi		
39	Water Audit of Hotel	Taj Vivanta New Delhi	2014
38	Adequacy of STP Plant of Mother Dairy at Patparganj New Delhi	Mother Dairy Corporation	2014
37	Vetting of Air Pollution Control System of MODI Floor Mill	MODI Floor Mill	2014
36	Third Party Quality Assurance for Augmentation of water Supply for Ghaziabad City	Up Jal Nigam, Ghaziabad	2011-2014
35	Design of Tertiary treatment system for Secondary treated sewage at Tosham, Haryana	Public Health Engineering Div. Tosham	2014
34	Design of Wastewater Treatment Plant to reuse of treated water, for India International Center, New Delhi	India Habitat Center	2014
33	Sewage Treatment Plant (250 KLD Capacity) based on Natural Treatment System	Holy Family Hospital, New Delhi	2013
32	Design of optimum size of Thrust Block for Water main for Augmentation of Water Supply Scheme Faridabad	R.K Engineers Sales Ltd. Gomti Nagar, Lucknow	2013
31	Augmentation and upgradation of existing wastewater treatment Plant of India Habitat Center for 100% reuse of Treated Water	India Habitat Center	2013
30	Sewage Treatment Plant based on Wetland Treatment Technology For Tractor India Limited, Greater Noida	Brisanzia Technologies Pvt Ltd	2012
29	Noise Profiling & Design of Noise Control System for Cooling Tower at Thyagraj Stadium, New Delhi	PWD, New Delhi	2012
28	Design and Preparation of Estimate for 450KLD Sewage Treatment Plant of Mahatma Gandhi Hindi University Wardha Maharashtra	Mahatma Gandhi Hindi University Wardha Maharashtra	2012
27	Design of Effluent Treatment Plant for Effluent generating From Poultry Slaughter	Delhi Agricultural Marketing Board (Govt. of NCT)	2011
26	Design and Preparation of Estimate for Drainage and sewerage System for New Township at Hissar/Sonapat for Haryana Urban Development Authority	KV Consultant, Gurgaon	2011
25	Vetting of Ranney Well Design for Water Supply of Municipal Corporation of Faridabad	Municipal Corporation of Faridabad	2011
24	Vetting of Air pollution Control System (Bag House) for small Steel Plant at Ponta Sahib,	T. I. Steel PVT. LTD, Ponta Sahib, Himachal Pradesh	2010
23	Feasibility study of six number of Ranney Well for water supply to Faridabad	Khandelwal and Associates	2010
22	Design of ETP for ESI Hospitable at Rohini and Jhilmil, New Delhi	PWD Delhi	2010
21	Site Selection and Design of Ranney Well for augmentation of water supply scheme at Ghaziabad	UP Jal Nigam Ghaziabad	2009
20	Design of 100 KLD ETP of Dental College for reuse of Water Jamia University	JMI University	2009
19	Design of 200 KLD, STP (CW) for 100% reuse of Water At Jamia Hamdard University	Hamdard University	2009
18	Design of STP based on Constructed Wetland Technology for Gurgaon	HUDA Gurgaon	2008
17	Design of Internal Utility Services for JMI Medical Center	JMI University	2008

16	Design of ETP for 600 bedded ESI Hospital	PWD Delhi	2007
15	Feasibility assessment of Ranney well (Northern Railways) Near Akshardam Temple New Delhi Site	Khandelwal and Associates	2007
14	Design of External Drainage System for sectors of Greatewr Noida	UP Jal Nigam, Unit 28, NOIDA	2006
13	Design of Water Main for 45 MLD capacity and 7 km length	HUDA DIV-III Faridabad	2006
12	Design of Two number of Ranney Well	HUDA DIV-III Faridabad	2005
11	Vetting of Water Supply and Sewerage System for SADA (Gawalior)	SADA Gawalior	2005
10	Feasibility assessment of Ranney well at Near Hodal Augmentation of Water Supply at Mewat Region	Public Health Department, Haryana	2005
9	Assessment of Structure Stability and Strengthening by retrofitting	UP Jal Nigam DIV.....	2004
8	Vetting for Hydraulic and Structural Design for 5 MLD Sewage Treatment Plant at Gurgaon	MES Services Gurgaon	2004
7	Design of Mini Sewage Treatment Plant using Root Zone Technology	Faridabad Municipal Corporation	2004
6	Assessment of Aquifer physical and hydrological Characteristics of Aquifer for Design of Ranney Well for Augmentation of Water Supply at Mewat Region	Public Health Department, Haryana	2003
5	Design of Constructed Wetland wastewater Treatment Plant to Reuse Treated water for Horticulture Purpose of Golf Course of Faridabad	Department of Tourism Govt. of Haryana	2002
4	Ground Water Quality Mapping	U.P. Jal Nigam, Unit 28 Noida	2002
3	Design of Internal Water Supply System	U.P. Rajay Nirman Nigam Noida	2001
2	Design of Rain Water Harvesting System for R & D Center, of Indian Oil Corporation	Indian Oil Corporation Faridabad	2000-
1	Hydro-geological & Environmental Study of Mehrauli Heritage Zone	Delhi Development Authority New Delhi	1998