

Curriculum Vitae



Name

IQBAL H. KHAN
Professor (Retd.)

Department of Civil Engineering
Faculty of Engineering & Technology
Jamia Millia Islamia, Jamia Nagar
New Delhi - 110 025 (INDIA)

Areas of Interest

Environmental Impact Assessment,
Environmental Auditing, Geographic
Information Systems, Environmental
Geotechnology.

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Date of Birth

March 20, 1939

EDUCATION

S.No.	Degree	Year	University
1.	Ph. D.	1969	University of Bradford, England, U.K.
2.	M. Tech	1966	University of Southampton, England, U.K.
3.	B. Tech	1961	A.M.U. Aligarh, India

Extensive experience of **Teaching, Consultancy and Research** in the area of Environmental Impact Assessment (EIA), Environmental Auditing, ISO 14001, Geotechnical Engineering, Solid and Hazardous Wastes Management.

Traveled extensively in **more than 40 countries** of the world for various professional assignments etc.

FIELD PROJECTS/ CASE STUDIES CONDUCTED

(Partial List)

Major Projects

- **Environmental Impact Assessment - Intentional Hotels Complex, New Delhi**

Sponsor: Delhi Development Authority

A study carried out to evaluate the environmental impacts of an International Hotels Complex. The project involved collection of baseline data, prediction of environmental impacts and evaluation of impacts. A comprehensive Environmental Management Plan (EMP) was suggested to mitigate negative impacts.

- **Quantitative and Qualitative Evaluation of Groundwater Resources at Village Ayad Nagar, Ghaziabad**

Sponsor: Ministry of Rural Development, Government of India

A project carried out under the Rajiv Gandhi National Drinking Water Mission. The study involved assessment of groundwater potential and its quality for drinking water supply in the rural areas Ghaziabad District.

- **Geophysical Survey for Geology and Groundwater Resource Assessment of Vasant Kunj Ph II**

Sponsor: Delhi Development Authority

The study involved assessment of groundwater resources using geophysical survey with the help of Terrameter.

- **Hospital Wastes Management in Delhi**

Sponsor: Department of Environment, Government of NCT of Delhi

The project involved preparation of GIS based system for the management of biomedical wastes including their collection, transportation, treatment and disposal.

- **Development of Statistics in Environmental Sector – Solid Wastes**

Sponsor: Ministry of Planning and Programme Implementation, Government of India

Qualitative and quantitative data related to municipal solid wastes generated in New Delhi. A solid wastes management plan was also suggested for collection, transportation and disposal of municipal solid wastes.

- **Geotechnical/Site Investigation and Foundation Design**

Sponsors: various government, semigovernment and private organizations

More than **100 field projects** related to geotechnical investigation, soil exploration and foundation design have been successfully completed.

Case Studies:

- Environmental Impact Assessment of Urban Sanitary Landfills
- Vehicular Pollution Monitoring and Control Strategies for Delhi
- Groundwater Resource Potential Evaluation at Kali-Ganga Basin, Ghaziabad
UGC Project
- Remote Sensing Technique for Environmental Management Study of Ghaziabad Area
- Design of Wastewater Treatment Plant (augmentation of existing plant at Okhla)
- Impact of Infrastructure on Health in Squatter Settlement in Delhi
- Groundwater Management and Conservation Strategies at Noida and Greater Noida

EMPLOYMENT PROFILE

- i) 1999 – 2001
1990-1993
1985-1987
(Three terms as Dean)
- Dean**
Faculty of Engineering and Technology,
Jamia Millia Islamia,
New Delhi - 110 025. (INDIA)
- 1985 - 1998
- Head**
Department of Civil Engineering,
Jamia Millia Islamia,
New Delhi - 110 025. (INDIA)
- ii) 1984-1985
- Professor**
Department of Civil Engineering,
University of Wisconsin, Madison,
Wisconsin (USA)
- iii) 1980-1984
- Associate Professor,**
Department of Civil Engineering,
Faculty of Engineering,
University of Benghazi.(LIBYA)
- iv) 1979-1980
- Sr. Research Fellow**
Department of Civil Engineering,
Faculty of Engineering,
Illinois Institute of Technology,
Chicago ILL (USA)
- v) 1980-1970
- Reader**
Department of Civil Engineering,
Faculty of Engineering,
Aligarh Muslim University,
ALIGARH (INDIA)
- vi) 1970-1961
- Lecturer**
Department of Civil Engineering,
Faculty of Engineering,
Aligarh Muslim University,
ALIGARH (INDIA)

ADMINISTRATION & MANAGEMENT

- As **Founder Dean** of the Faculty, I directed the establishment of the departments of Civil, Electrical and Mechanical Engineering in the Faculty. Also supervised the B.E. (Evening) degree program, for in-service professionals. From a modest beginning in 1985, the Faculty has grown exponentially. Today the Faculty has a teaching staff of about 250, non-teaching staff of about 400 and student strength of about 3000 for the degree program. Grants amounting to tens of crores of Rupees have already been received and an ambitious development program is in progress. Under-graduate program leading to B.Sc. Engg. in Civil, Electrical Mechanical and Electronics, have been established. Post graduate and research programs are also available.
- As **Dean** of the Faculty, I had full academic and executive responsibility for the administration and development of Faculty of Engg.
- Planned and established, 25 laboratories and a **Computer Center** and an **Auditorium**, in the Faculty of Engineering and Technology Jamia Millia Islamia, New Delhi. These laboratories cater to the teaching requirements of the Undergraduate and post-graduate students. Research work is also in progress in several areas especially in Environment, Groundwater Resources and Remote Sensing.
- Established post-graduate program i.e. **M.Tech in Environmental Sciences & Engineering**, in the Deptt. of Civil Engineering, Jamia Millia Islamia, Sponsored by **UGC**. First program of its kind catering to teaching and training requirements of in-service engineers in the field of Environment.
- Initiated Research programs leading to **Ph.D.**
- **Motivated** faculty members for **qualifications improvement**. Most of them now hold **Ph.D. degrees** in Engineering from leading institutions in India and abroad.
- **Member, Accreditation Board**, All India Council for Technical Education (AICTE), for academic and administrative evaluation of Institutes and Universities.
- **Member, Expert Committee**, University Grants Commission (UGC) for evaluation of performance of several Universities
- **Member, Board of Governors**, Zakir Husain College, New Delhi.
- Organized as Chairman, an International Conference on **Environmental Challenges for the New Millennium (ECNM'99)**; November 25 – 27, 2002).

- Organized as Chairman, an International Conference, on ***New Challenges for Civil Engineers in the 21st Century (NCCDC-96)***; Feb. 28 & 29, 1996). More than 200 participants from all over India and from abroad participated.
- Organized as Chairman, a Seminar on ***Architecture for Masses***, October 11, 2003.
- Organized as Chairman, a Seminar on ***Role of IT in the Management of Environment***, February 24, 2002.
- Organized a National Conference, on ***Conservation of Monuments*** (13th, Jan. 1996.)
- Organized a National Workshop, on ***Environmental Problems in Mega Cities*** (11th, Dec. 1995.)
- Organized a one-day Workshop on ***Mass Scale utilization of Flyash*** (11th, Aug. 1996)
- Organized a one day workshop on ***Remote Sensing for Environmental Management*** (2nd Nov. 1996)
- Organized a one day Seminar on ***Science and Technology – 21st Century Challenges*** (11th March 1998)
- Organized a one day Workshop on ***Solid and Hazardous Waste Management*** (25th April 1999)
- ***Chief Organizer, Platinum Jubilee celebrations***, 75 years of the establishment of Jamia Millia Islamia) A large number of functions were organized successfully.
- ***Chief Organizer, 50th Anniversary of India's Independence***; A large number of functions, cultural events, exhibitions, lectures and seminars were organized.(Aug 1997-Aug 1998)
- Planned and executed a large number of Consultancy projects in the field of Civil Engineering.
- Organized, a number of Workshops & Seminars at National level on educational issues at A.M.U. Aligarh and Jamia Millia Islamia.
- ***Secretary*** (1971-1975) A.M.U. Teaching Staff Association (elected unanimously for two terms.); Implemented a number of welfare measures for university teachers e.g. Housing, Health etc.
- Chief Warden (1961-1975), Students Hostel for several years.
- ***Member Incharge***, Building Department, Jamia Millia Islamia for several years.

AWARDS RECEIVED

- Dr. Radha Krishnan Award for Contribution in Education - 1992
- All India Sewa Sansthan Award for Social/Educational Services -1997

Ph.D. THESIS GUIDANCE

- Dr. Shamshad Ahmad, *River Water Quality Modelling Using GIS Technique*, March, 2000. (First Ph.D. in the Faculty of Engineering, Jamia Millia Islamia)
- Mrs. R. Randhawa, *Environmental Noise Impact Assessment of Metropolitan Transportation Infrastructure Development* (in progress)

MEMBERSHIP OF PROFESSIONAL/LEARNED BODIES/SOCIETIES

- President, Indian Society of Environmental Management
- Member, Association of Environmental Engineering and Science Professors
- Member, American Society for Civil Engineers
- Member, Indian Society for Technical Education
- Member Indian Geotechnical Society
- Member, International Society for Soil Mechanics and Foundation Engg, U.K.
- Member, Pollution Control Board, Ministry of Environment, Govt. of Delhi
- Member Environmental Panel, EIA, Indian Road Congress, New Delhi
- Member, Ridge Management Board, Govt. of Delhi

PUBLICATIONS

Books:

1. Iqbal H. Khan
A Text Book of Geotechnical Engineering
Prentice Hall of India (1998)
2. Iqbal H. Khan and Naved Ahsan
A Text Book of Solid Wastes Management
CBS Publishers (2003)
3. Iqbal H. Khan and Hasan, Q.
Numerical Analysis for Scientists & Engineers
Golgota Publishers (1996)
4. Iqbal H. Khan & Shamshad Ahmed (Ed.)
Editor, ***Remote Sensing for Environmental Management***
Venus Publishing House (1997)
5. Iqbal H. Khan & Sirajuddin Ahmed (Ed.)
Editor, ***Flyash – Mass Scale Utilization***
Hira Publications (1997)
6. Iqbal H. Khan (Ed.)
Editor, Proceedings of International. Conference ***New Challenges for Civil Engineers in the 21st Century (NCCDC-96)***, New Delhi, 1996
7. Iqbal H. Khan and Mini Thomas (Ed.)
Editor, Proceedings of International. Conference ***Environmental Challenges in the New millinum***, New Delhi, 1996
8. Iqbal H. Khan and Naved Ahsan (Ed.)
Editor, Proceedings of Seminar on ***Role of IT in the Management of Environment***, New Delhi, 2002
9. Iqbal H. Khan
Editor ***ISEM Bulletin***,
Quarterly Bulletin of the Indian Society of Environmental Management

Research Papers (Partial List)

Technical

1. Shamshad Ahmad, Iqbal H. Khan and B.P. Parida, (2001) "Performance of Stochastic Approaches for Forecasting River Water Quality", *Water Research*, Vol. 35 No. 18, pp. 4261 – 4266.
2. Iqbal H. Khan (1999)"*Environmental Impact Assessment of an Urban Development Project*"1999 RAPI National Congress- Planning/EAROPH Regional Conference, Darwin, Australia, September 19-23.
3. Iqbal H. Khan (1999); "*Landfill: Design Principles and Techniques*"; Workshop on Solid and Hazardous Waste Management, India International Centre, New Delhi, April 25.
4. Iqbal H. Khan (1999); "*Environmental Impact Assessment of Sanitary Landfills: Case Study*"; South Asian Countries Conference on Challenges to Architects and Civil Engineers During Twenty First Century, Kathmandu, Nepal, April 7-9.
5. Iqbal H. Khan and S. M. Muddassir (1996); "*Environmental Impact of Urban Sanitary Landfills*"; Journal of The Institute of Town Planners, India, Vol. 14, Nos. 3 & 4, March- June.
6. Iqbal H. Khan (1995); "*Solid Waste : Scourge of Delhi*"; The Hindustan Times 22nd Sept. 1995.
7. Iqbal H. Khan S.M.A. Kazimi (1993); "*Failure of Buildings Founded on Fills*"; Conference on Case Histories in Geotechnology, held in Missouri, Rolla, U.S.A; June 1-6 1993, Proceedings.
8. Iqbal H. Khan (1993); "*Distress in Concrete Structure-Foundations*"; Paper presented in the National Conference on Distress in Concrete organized by Indian Concrete Association, Delhi, February 1993. Proceedings.
9. Iqbal H. Khan & M. Arhsad (1993); "*Full Scale Load Tests on Under Reamed Piles*"; Int. Conference NCCDC-96, Feb., 1996 Jamia Millia Islamia, Proceedings
10. Iqbal H. Khan (1993); "*Ground Water Pollution Due to Landfills: A Report*
11. Iqbal. H. Khan (1990); "*Soil Stabilization for Construction on Sands*"; Conference in Tehran by Iranian Society of Soil Mechanics and Foundation Engg: Vol. 3; P.946, 1990. Proceedings.
12. Iqbal H. Khan (1989); "*Drilling and Testing of Offshore piles*"; Paper presented in XI Int. Conference on Soil Mechanics and Foundation held in Rio de Janeiro Brazil, 13-18th August, 1989.

13. Iqbal H. Khan (1987); *"Estimating Load Capacity of Piles Supporting Offshore Structures"*; Indian Geotechnical. Conference (I.G.C.) held in I.I.T. New Delhi Feb. 1987 Proceedings
14. Iqbal H. Khan (1985); *"Full Scale Load Test for Offshore piles"*; XII Int. Conference on S.M.F.E. held in San Francisco, CA, (USA), Aug. 1985 Proceedings.
15. Iqbal H. Khan and Layas F.M. (1984); *"Settlement of a Building Founded on Difficult Soil"*; Conference on Case Histories in. Geotechnical Engineering held in the University of Missouri, Rolla, Missouri- May 1984.
16. Iqbal H. Khan and Asghar Raza (1984); *"Triaxial Testing on Dune Sand Stabilize by Resins"*; 8th African Regional Conference held in Harare, June 1984.
17. Iqbal H. Khan (1983); *"Power from Wave in the Mediterranean"*; Paper presented in the Int. Conference on "New and Renewable Energy Resources in the Arab World, organized by the Association of Arab Engrs. Tripoli Jan 22-26,1983.
18. Iqbal. H. Khan (1983); *"An Electro-Capacitance Gauge for Stress Measurement in Geomechanics"*; (FMC 83) held at Swiss Federal Institute of Technology, Zurich Switzerland 5, Sept. 1983.
19. Iqbal H. Khan (1983); *"Failure of an Earth Dam:-A case Study"*; American Society of Civil Engr. (A.S.C.E.) Journal of Geot. Division; Vol. 109 GT2 February.
20. Iqbal H. Khan (1982); *"Soil Studies for Highway Construction in Arid Zones"*; Journal of Engg Geology, Vol. 19(1) Dec., Elsevier, Amsterdam, Netherlands.
21. Iqbal H. Khan and Hasnain S.I. (1981); *"Engineering Properties of Sabkha Soil in Benghazi Plain, and Construction Problems"*; Journal of Engg. Geology, -Vol. 17(3) Oct. Elsevier, Amsterdam, Netherlands.
22. Iqbal H. Khan and Ahmad I. (1980); *"Effect of Repeated Loading on the Shear Strength Parameters of Soil."*; Indian. Geotechnical Journal Vol.10, No.4 October.
23. Iqbal H. Khan (1973); *"Laboratory Investigation of Stress Measurements in Soils"*; Indian. Geotechnical Journal., Vol.2 ,No.2 April.
24. Iqbal H. Khan (1973); *"The In-Situ Measurement of Stresses in Soils"*; Journal, Institute of Engineers, (India) Vol.53 January.)
25. Iqbal H. Khan (1972); *"Stresses in Soils"*; The 125 jubilee Conference, University of Roorkee November, 1972, Proceedings.
26. Iqbal H. Khan and Raza A. (1972); *"Non-linear Flow Through Porous Media"*; Journal, Institute of. Engineers, (India) Vol. 51, November.
27. Iqbal H. Khan (1972); *"Repetitive Shear Test on Dry Sand"*; Discussion in Journal of Institute of Engineers., (India) No. 75. March.

Education

28. Iqbal H. Khan (1999); "*The Scientific Temper of Dr. Zakir Husain*"; National Seminars on Dr. Zakir Husain: Life and Contributions, Patna, May 29-31.
29. Iqbal H. Khan (1999); "*Future Trends in Engineering Education in Developing Countries*"; AEESEAP'99 Midterm Conference, Bangkok, Thailand, May 12-14.
30. Iqbal H. Khan (1999); "*Trends in Engineering Education*"; Symposium on Challenges in Engineering Education organized by Indian Science Congress, Chennai, January 3-7.
31. Iqbal H. Khan (1997); "*21st Century Calls for New Science Policy*"; The Times of India, Wednesday, January 8, 1997.
32. Iqbal H. Khan (1996); "*Continuing Education in Developing Countries in the 21st Century.*"; International Conference on Continuing Education, organized by Japanese Society of Engg. Education, Makuhari, Tokyo, Japan April 23-26.
33. Iqbal H. Khan (1996); "*Strategies for Excellence in Education*"; Int. Conference on VAST Kuala Lumpur Malaysia August 1996
34. Iqbal H. Khan (1995); "*Gandhiji : a Great Environmentalist*"; SPACE - Journal of School of Planning and Architecture, New Delhi Vol. 10, No. 2, April.
35. Iqbal H. Khan (1994); "*Environmental Education in Third World Countries*"; Keynote address, Int. Conference on Environmental Education, Napier University, Edinburgh, September 9, 1994.
36. Iqbal H. Khan (1992); "*Minority Education in various Professional & Educational Institutions*"; Paper presented in the Conference on Minority Education held in Madras
37. Iqbal H. Khan (1988); "*Social Responsibility of Technocrats*"; Paper presented in the National Seminar held in I.I.T New Delhi Proceedings
38. Iqbal H. Khan & Ahmad Shembesh (1983); "*Effective Teaching in an Engineering faculty in Middle East :A Report*"
39. Iqbal H. Khan (1982); "*Higher Education in Developing Countries*"; Seminar held by the Int. Center for Research and Studies Tripoli, Libya; 3 Nov. 1982. Proceedings.