



## RESUME'

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### Academic Qualifications

**Ph. D.** in Geology (Year 1999-**Awarded**)  
Aligarh Muslim University, Aligarh, India  
Title of Ph. D. Thesis: **“Aquifer system and resource potential of Kasganj sub- division, district Etah, U.P., India”**

**M. Sc.** – Geology (Year 1988-**First Division**)  
Aligarh Muslim University, Aligarh, India

**B. Sc. (Honours)** (Year 1986-**First Division**)  
Aligarh Muslim University, Aligarh, India  
**Geology (main), Geography and Chemistry (optional), English, Urdu and Theology (compulsory)**

### Research Publications

#### Full Length Papers

**Hasan, S. Z. (2004)**, Hydrogeology of Kasganj block, district Etah in parts of the central Ganga basin: A micro-level approach. ***Mausam***, Vol 55, No. 2, pp 364-369.

**Hasan, S. Z. (2003)**, Groundwater chemistry in relation with domestic and agriculture use – case study. ***Journal of Applied Geochemistry***, Vol 5, No. 2, pp 101-111.

**Hasan, S. Z. (2003)**, Mechanical analysis of aquifer material in Kasganj sub-divisional area, district Etah, Uttar Pradesh, India. ***Ultra Scientist of Physical Sciences***, Vol 15, No. 1, pp 79-84.

**Hasan, S. Z. (2002)**, Groundwater development in parts of central Ganga basin – a case study. ***Journal of Geological Association and Research Centre***, Misc. Pub. (16), pp 1 – 14.

**Hasan, S. Z. (2002)**, Geomorphological studies in parts of the central Ganga basin using IRS 1A data. *Bulletin of Pure and Applied Sciences*, Vol. 21 F, No. 2, pp 57-63.

**Hasan, S. Z. (2002)**, Groundwater exploitation and hydrogeological research: a chronology of historical developments. *Journal of Current Sciences*, 2 (2), pp 299 – 304.

**Hasan, S. Z. (2001)**, Groundwater resource evaluation of Kasganj sub-division in parts of Central Ganga Plain, District Etah, U.P. *Indian Journal of Geology* Vol. 73, No. 3, pp 171-179.

Ahmad, M.S., **Hasan, S. Z.** and Umar, A (1997), Aquifer system, groundwater budget and water quality in Aligarh Muslim University campus, district Aligarh (U.P.). In: (Farooque eds.) Water resource management: thrust and challenges, Anmol Pub. Pvt. Ltd., New Delhi, pp. 169-182.

Ahmad, M.S., **Hasan, S. Z.** and Umar, A (1997), Aquifer system and groundwater resource potential of Bulandshahr district, U.P. In: proc. nat. sem. Emerging trends in the development of sustainable groundwater sources, Hyderabad, pp. 37-48.

### **Conferences / Seminars Attended**

29th International regional conference on "**Sustainable Development and New Economic Policy**" (January 31 - February 2, 1997).

**Venue:** Department of Geography, Delhi University, Delhi, India.

National seminar on "**Water Resources: Thrust and Challenges**" (February 22-23, 1997).

**Venue:** Department of Commerce, Aligarh Muslim University, Aligarh (U. P.), India.

National conference on "**Conjunctive Use of Surface and Subsurface Waters, their Management and Assessment**" (April 26-27, 1997).

**Venue:** Department of Applied Geology, Government Motile Vigyan Adarsh Mahavidyalaya, Bhopal (M.P.), India.

First national seminar on "**Geoenvironmental Indicators**" (August 21-22, 1997).

**Venue:** Department of Geology, Delhi University, Delhi, India.

National conference on "**Emerging Trends in the Development of Sustainable Groundwater Sources**" (August 27-28, 1997).

**Venue:** Centre for Water Resources, Jawaharlal Nehru Technological University, Hyderabad (A.P.), India

National conference on "**Fifty Years of Indian Agriculture**" (March 17-19, 1997).

**Venue:** Department of Geography, Aligarh Muslim University, Aligarh (U.P.), India.

National Seminar on **Geotechnical issues and recent researches in sedimentary basins of India, their significance in industrial development and land system management**, (November 6-8, 2001).

**Venue:** Department of Geology, Aligarh Muslim University, Aligarh, (U. P.), India.

National conference on ***Groundwater management, future challenges and its impact on environment***, (March 28-29, 2003).

**Venue:** Department of Geology, Aligarh Muslim University, Aligarh, (U. P.), India.

International conference on ***Unconventional sources of fossil fuels and carbon management*** (February 21-22, 2011).

**Venue:** Gujarat Energy Research and Management Institute, Gandhinagar, Gujarat, India.

## **Abstracts in Conference/Seminars Proceedings**

***Coal bed methane resource characterization-a laboratory approach.***

Proceedings: "Unconventional sources of fossil fuels and carbon management" **2011**. Organized by Gujarat Energy Research and Management *Institute*, Gandhinagar, Gujarat, India.

***A laboratory based study for shale gas reservoir characterization, stimulation and production evaluation.***

Proceedings: "Unconventional sources of fossil fuels and carbon management" **2011**. Organized by Gujarat Energy Research and Management *Institute*, Gandhinagar, Gujarat, India.

***Methodological approach for assessment and management of tight sand reservoirs.***

Proceedings: "Unconventional sources of fossil fuels and carbon management" **2011**. Organized by Gujarat Energy Research and Management *Institute*, Gandhinagar, Gujarat, India.

***Regional aquifer system in the Ganga basin.*** Proceedings: "Sustainable development and new economic policy" **1997**. Organized by Department of Geography, Delhi University, Delhi, India.

***Aquifer system and water resource potential of Ganjundwara block in parts of Central Ganga Basin-a case study.***

Proceedings: "Conjunctive use of surface and subsurface waters, their management and assessment" **1997**. Organized by Department of Applied Geology, Government Motilal Vigyan Adarsh Mahavidyalaya, Bhopal, M.P., India.

***Groundwater quality in Kasganj block in parts of the Ganga-Kali sub-basin, district Etah, U.P., India.***

Proceedings: "Geoenvironmental indicators" **1997**. Organized by Department of Geology, Delhi University, Delhi, India.

***Regional aquifer system and groundwater potential of Kasganj block, district Etah, U.P., India.***

Proceedings: "Emerging trends in the development of sustainable groundwater sources" **1997**. Organized by Centre for Water Resources, Jawaharlal Nehru Technological University, Hyderabad, A.P., India.

***Hydrogeology and groundwater resource potential of Sidhpura block in parts of Central Ganga Basin.***

Proceedings: "Emerging trends in the development of sustainable groundwater sources" **1997**. Organized by Centre for Water Resources, Jawaharlal Nehru Technological University, Hyderabad, A.P., India.

***Groundwater resource potential and agricultural production in Kasganj block, district Etah, U.P., India.*** Proceedings: "Fifty years of Indian agriculture" **1999**. Organized by Department of Geography, Aligarh Muslim University, Aligarh, U.P., India.

***Groundwater resource potential of Ganjundwara block in Etah district and its role in agriculture-a case study.*** Proceedings: "Fifty years of Indian agriculture" **1999**. Organized by Department of Geography, Aligarh Muslim University, Aligarh, U.P., India.

***Aquifer system and groundwater resource potential of Kasganj block in parts of Ganga Kali sub-basin, district Etah, U. P.*** Proceedings: "Geotechnical issues and recent researches in sedimentary basins of India, their significance in industrial development and land system management" **2001**. Organized by Department of Geology, Aligarh Muslim University, Aligarh, U. P., India.

***Groundwater chemistry in relation with domestic use-a case study of Kasganj sub-division in parts of the central Ganga plain, district Etah, Uttar Pradesh.*** Proceedings: "Groundwater management, future challenges and its impact on environment" **2003**. Organized by Department of Geology, Aligarh Muslim University, Aligarh, U. P., India.

***Sustainable development of groundwater quality in parts of the central Ganga plain-a case study.*** Proceedings: 8<sup>th</sup> Meeting of the Saudi Society of Geosciences (SMG-8), **2009**. Organized by Saudi Geological Survey, Jeddah, Saudi Arabia.

***A study of landform features in parts of the central Ganga plain using IRS data*** Proceedings: AP Science Congress-2010, "Science, technology, education for prosperity" **2010**. Organized by Jawaharlal Nehru Technological University, Hyderabad, A. P., India.

***A case study of hydrochemical evaluation revealing dental and skeletal fluorosis and other naturally occurring hazards.*** Proceedings: "Integrated geoscientific strategies in groundwater exploration and management" **2010**. Organized by Indian Geophysical Union, Osmania University, Hyderabad, A. P., India.

***Specific yield-water level fluctuation method an effective tool for quantitative evaluation of groundwater resource-a case study.*** Proceedings: '2001 Bhuj Earthquake and advances in earthquake science', **2011**. Organized by Institute of Seismological Research, Gandhinagar, Gujarat, India.

***Hydrochemistry of alluvial aquifers of Kasganj sub-division in parts of the central Ganga plain, U. P., India.*** Proceedings: Section-Earth System Sciences '98<sup>th</sup> Indian Science Congress", **2011**. Organized by Indian Science Congress Association, SRM University, Chennai, Tamil Nadu, India.

## **Short Commnications**

Hasan S. Z. ***Existing Energy Resources and the Need of Time*** Communicated to the journal of Indian Science Congress Association.

Hasan S. Z. ***Attention needed for preservation of water quality rather than quantity*** Urja-Setu, Quarterly magazine of GSPC, Jan-Feb 2012, pp28.

## Academic Honours

Awardee of university junior and senior research fellowship during the course of Ph. D. programme and post-doctoral fellowship.

## Membership of Societies

- Fellow of Geological Society of India (GS Ind.)
- Fellow of Indian Geophysical Union (IGU)
- Life member of Indian Society of Applied Geochemists (ISAG)
- Life member/Fellow of National Environmental Science Academy (NESA)
- Life member of Indian Association of Sedimentologists (IAS)
- Member of International Association of Hydrogeologists (IAH)
- Life member of Geological Association and Research Centre (GARC)
- Life member of Indian Geological Congress (IGC)
- Life member/Fellow of Association of Economic Geologists (AEG)
- Life member of Indian Geophysical Union (IGU)
- Life member of Indian Science Congress Association (ISCA)
- Member of Editorial Board of the Journal of GARC

## Course Attended

- Role of mathematical modeling in groundwater resources management  
December 13-23, 2004  
**Venue:** National Geophysical Research Institute, Hyderabad, India.
- Mathematical modeling of groundwater in mining areas  
March 10-23, 2005  
**Venue:** Central Mining Research Institute, Dhanbad, India.

## Work Experience

- As Geologist on consolidated salary in Uttar Pradesh State Mineral Development Corporation Limited learned and worked to implement the approved mine as well as environmental management plans during the year 1990 to 1993.
- As Principal Investigator of the Project under the Young Scientist Scheme sanctioned by the Department of Science and Technology, Government of India, handled skillfully the annual grants with fellowship for three years from 2001 to 2004.
  - Carried out intensive field and laboratory work followed by data interpretation.
  - Visited various offices for gathering of information pertaining to earlier work in the area under study.

- As QA/QC Coordinator with BJ Services Company Middle East Limited, India provided strategic direction and leadership to the team of scientists, engineers and other technical and non-technical staff while working at the site in Rajasthan (India) and several other projects being operated by the Company at other places of the country during the year 2005 to 2009.
  - Applied for one patent to increase the shelf life of one of the cementing additives.
  - Monitored number of satellite laboratories and derived the work plan for equipments' operations.
  - Developed quality control data base of the additives being used.
  - During the stay over here had opportunities to make suggestions in financial matters and managing funds at the sites.
  - Managed to obtain services of BJ staff on many occasions even beyond their normal duty hours on the basis of good relationship and creating team spirit among them.
- As Scientist Group-IV (6), forceful leadership is being provided to the fastly developing Gujarat Energy Research and Management Institute (GERMI), India from the year 2009 to till date.
  - Displayed marked potential of initiative judgment for drafting the thrust areas of research followed by laboratory lay out and R & D plan.
  - Reviewed one research paper as referee at the behest of the Indian National science Academy.
  - Worked as Convener for the International Conference on Unconventional Sources of Fossil Fuels and Carbon Management organized by GERMI, where skills towards planning, organization, and decision making were noticed and appreciated by the Executive Committee of GERMI and the galaxy of scholars who participated in it.
  - Conducted four short term courses of American Society of Mechanical Engineers as Course Coordinator, organized by GERMI.

- Successfully executed the responsibility of Convener of International Conference and Course Coordinator on the basis of good relationship and team spirit.
- As head of one of the research wing put forward several suggestions for the development of the Institute which have been accepted and being implemented.
- Involved in annual budgetary planning and resource management of GERMI, and meeting with scientific instruments manufactures and suppliers.
- Proved instrumental in staff management as well as maintaining cordial relations with colleagues and staff.

### **Personal Attributes**

I, Syed Zaheer Hasan, am a product of Aligarh Muslim University, Aligarh Uttar Pradesh, India where academically trained by learned faculties and after working with important organizations including the present concern where personal skills, knowledge, abilities, attributes, behaviour and competencies matter more than formal degrees and certificates hence, find myself fit in the framework given on information package for any responsibility pertaining to qualification and experience.



**(DR. SYED ZAHEER HASAN)**