
Curriculum Vitae

Dr. Khondaker Azharul Haq

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Key Qualifications:

Management of large public sector water utilities; management of large and small irrigation systems; water resources assessment and development; agricultural mechanization; agricultural and rural development; research and development administration; appraisal, formulation and supervision of projects involving physical infrastructure of different kinds; institutional & human resources development; project/program/process monitoring & evaluation; environmental management; impact assessment; inventory management; international/local purchase & procurement; commercial negotiations & report writing.

A . Personal Details

- Nationality** : Bangladeshi by birth
- Born** : 30 June, 1944
- Marital Status** : Married
- Education** :
• **PhD in Engg, University of California, Davis in 1981**
• **MS in Agricultural Engg, University of Hawaii, Honolulu in 1973**
• **BSc in Agri'l Engg, Pakistan Agri'l University, 1967**
- Professional Development** : Professional development stems from 3 decades of experience in R&D & implementation of projects in water supply, sanitation, drainage; irrigation & water management; agricultural machinery & farm mechanization; post harvest technology; agricultural & rural development; and development administration. Last assignment involved 7 years of working as the CEO of a large autonomous body (detailed below) that provided a challenging environment entailing water supply, sewerage and drainage spectrum of a mega city.
- Membership** :
Fellow, The Institution of Engineers, Bangladesh.
Member, Krishibid (Agriculturist) Institution of Bangladesh
Member, Bangladesh Association for Advancement of Science
Member, American Society of Agricultural Engineers
Member, Bangladesh Water Partnership
Member, Sigma Xi Scientific Research Society, University of California, Davis Chapter.
- Language Proficiency** :
Bangla - Excellent (speaking & writing)
English - Excellent (speaking & writing)
Urdu - Moderate (speaking)
Hindi - Moderate (speaking)
- Computer Literacy** : MS Word 2002, Excel, Powerpoint etc.
- Countries of Work Experience** : Sri Lanka, Nepal, Sudan,
- Countries Visited on**
- Professional Assignments** : India, Pakistan, Thailand, Philippines, China, Japan, Mexico, USA, Canada, France, Morocco, Argentina, Bhutan, UK, Switzerland, Netherlands, Italy, Turkey, Singapore, Sweden.

B. Professional Career

(in Reverse Chronological Order)

- **Aug'96- Apr'03** ⇒ **Position Held: Managing Director (Chief Executive Officer)**
Employer: Dhaka Water Supply & Sewerage Authority (DWASA)

Brief Job Description:

- Policy formulation on urban water supply and sanitation with reference to Dhaka metropolis
- Identification and preparation of projects and negotiation with Govt., International lending agencies and Governments for bilateral/multi-lateral funding.
- Negotiate, Co-operate & liaise with parallel Govt. Ministry & Agencies and internat'l organizations engaged in water supply, drainage & sanitation sector for integrated dev't of the said facilities.
- Implementation of water supply, sanitation and storm water drainages projects, Implementation responsibilities commence with planning, procurement equipment and materials specification, tendering for and award of contracts, supervision and monitoring of performance and evaluation.
- Supervision and monitoring of works of local and international multidisciplinary consultants.
- Preparation of corporate plan and budget for DWASA and ensure smooth implementation
- Responsible for overall administration of DWASA which has over 3500 staff and 250 officers including 3 Deputy Managing Directors, 1 Chief Engineer, 1 Commercial Manager, 1 Chief Accounts Officer and 6 Superintending Engineers
- As a member of the WASA Board participate in the overall policy and decision making of DWASA
- Represent DWASA on various high powered committees constituted by the Government

- **Aug'92- Jun'96** ⇒ **Position Held: Irrigation Specialist : Senior Research Scientist**
Employer: International Irrigation Management Institute (IIMI), Colombo, Sri Lanka

Brief Job Description:

- Work closely with the Irrigation Department of Sri Lanka to plan, establish and develop the Irrigation Research Management unit (IRMU) and assist in developing its research plans, procedures and policies.
- Provide training and advice on a day-to-day basis to the IRMU staff and its collaborators.
- Assist the IRMU develop & implement a research program using a variety of methodologies.
- Coordinate other IIMI inputs into the IRMU's activities and supervise IIMI's national research staff
- Report the results to a wider audience
- Contribute to the planning, implementation and evaluation of other components of this large project, the National Irrigation Rehabilitation Project, through participation in various coordinating and management committees.
- Liaise with donor agencies.

- **Aug'90- Jul'92** ⇒ **Position Held: Irrigation Specialist : Senior Research Scientist**
Employer: International Irrigation Management Institute (IIMI), Colombo, Sri Lanka

Brief Job Description:

- Principal advisor on water management to the Agricultural Manager of the Sudan Gezira Board (SGB).
- Advise the SGB on the identification of the technical and managerial issues relevant to irrigation by means of problem identification and analysis at field and sub-system level.
- Translate the results of problem identification & analysis into research or remedial action programs.
- Closely attend to the planning & the progress being made on the Pilot Farm and working through the Agricultural Manager, SGB, provide advise to the Steering Committee & the Project Manager.

- Advise SGB on the development of the Water Management Advisory Unit foreseen in the IDA appraisal report on the Gezira Rehabilitation Project.
- Make recommendations on the type and content of training needed for the SGB field staff of the Water Management Advisory Unit.
- Advise on drafting revised operating rules/procedures, to the extent that this may be necessary relating to specific components of the system; with special attention to the process of introducing revised rules and making them functional, including the related requirement of information flow within the system.
- Liaise with national and international organizations active in the field of irrigation management research for the benefit of the system.
- Promote and arrange the linkages between activities carried out in Sudan and similar activities undertaken in countries participating in IIMI's international irrigation management R&D network.

- **Nov'88- Jul'90** ⇒ **Position Held: Member Director (Irrigation): Policy Level**
Employer: Bangladesh Agricultural Development Corporation

Brief Job Description:

- Policy formulation on national irrigation development.
- Identification & preparation of projects, negotiation with international lending agencies and governments for bi-lateral/multilateral funding.
- Negotiate and cooperate with parallel govt. ministries & agencies engaged in agricultural and rural development & agricultural financing for balanced and integrated dev't of irrigated agriculture.
- Implementation of national irrigation program. Implementation responsibilities commence with planning procurement, equipment and material specification, tendering for contracts, award of contracts, supervision and monitoring of performance.
- Supervise construction, repair of maintenance of office and residential buildings.
- Supervise and monitor works of local and international consultants.
- Monitor & control O&M facilities for equipment supplied by BADC through out the country.
- Responsible for the administration of the Irrigation Div. of BADC comprising over 100 offices across the country, with over 450 engineers & a large number of technical & support personnel.
- As a member of the Board of Directors, participate in over all policy and decision making of BADC.
- Represent BADC in various high powered committees constituted by the Government.

- **Jan'85 – Oct'88** ⇒ **Position Held: Member Director (Agri'l Engg): Policy Level**
Employer: Bangladesh Agricultural Research Council

Brief Job Description:

- Plan, sponsor, co-ordinate and evaluate research projects in farm machinery and agricultural mechanization, irrigation engineering, on farm water management, post-harvest technology, hydrogeology end socio-economic aspects of irrigation and farm mechanization.
- Develop multi-disciplinary inter-institutional co-ordinated research projects.
- Prepare technical and research reports.
- Arrange seminar, workshops and other activities for national and international co-operation.

- **Jan'77 – Dec'84** ⇒ **Position Held: Head, Agricultural Engg. Div: Sr. Lead Scientist**
Employer: Bangladesh Rice Research Institute

[Note: was abroad for higher studies from Jan'76-Oct.'80 and Sept'81-Aug'82)

Brief Job Description:

- Conduct as well as supervise basic and adaptive research in:
 - Farm machinery and agricultural mechanization.
 - Irrigation and water management including rain water management.
 - Post harvest technology.

- Socio-economics of technology adoption.
 - Multi-disciplinary, multi-institutional (including international research institutes) coordinated research for irrigation performance improvement.
 - Construction, repair and maintenance of all civil work including office and residential buildings.
- **Jan'68 – Aug'70** ⇒ **Position Held: Project Director, Mech. Cultivation & Irrig'n Project**
Employer: Bangladesh Rice Research Institute (BRR)

Brief Job Description:

- Design, installation and operation of Deep wells for irrigation.
- Rural electrification.
- O&M of a fleet of tractors and others agricultural machinery including irrigation pumps

C. REPORTS AND PUBLICATIONS

a. Thesis and dissertation

1. **Haq, Khondaker A** (1973): Moisture distribution from trickle irrigation. Unpublished M.S. thesis. Honolulu, Hawaii: University of Hawaii.
2. **Haq, Khondaker A** (1981): Statistical models on the effect of rheological properties on atomization from nozzles used in agricultural aircraft. Unpublished Ph.D. dissertation. Davis, California: University of California.

b. Technical Papers

1. **Haq, K.A.** [1975]: Agricultural Mechanization: Present Status and Future Strategies. Proceedings of the W/shop on Appropriate Agricultural Technology - *Bangladesh Agricultural Research Council (BARC)*.
2. **Haq, K.A.** [1975]: Status of Agricultural Mechanization in the Philippines and Thailand. Proceeding of the Workshop on Appropriate Agricultural Technology – *(BARC)*.
3. **Haq, K.A.** [1976]: Experiences with Low-cost Tube Well Irrigation. Rural Development in Bangladesh and Pakistan University of Hawaii Press.
4. **Dobie, J., and K.A.Haq** [1979]: Storage of Rice Straw. Trans. [*American Society of Agricultural Engineers*].
5. **Haq, K.A.** [1983]: Irrigation Strategies for Rice Production. Proceedings of the Workshop on High Yielding Variety of Rice - *Bangladesh Rice Research Institute (BRR)*.
6. **Haq, K.A., N.B. Akesson and W.E.Yates.** [1984]: Analysis of Droplet Spectra and Spray Recovery as a Function of Atomizer Type and Fluid Physical Properties - Pesticide Formulation and Application Systems- [*Third Symposium, ASTM*].
7. **Haq, K.A. and M.A. Sattar** [1984]: Irrigation and Water Management- A Shift from Conventional Approach. Proceedings of the Workshop on High Yielding Variety of Rice. [*BRR*]
8. **Islam, M.S. and K.A. Haq.** [1985]: Performance of Indigenous Hand Weeders in Bangladesh. Journal of Agricultural Mechanization in Asia and Pacific. Vol. XVI, No.4, 47-50.
9. **Haq, K.A.** [1985]: A Multi-institutional, Multi-disciplinary Applied Research for Increasing Irrigation Effectiveness and Crop production. Proceedings of the Workshop on High Yielding Variety of Rice - [*BRR*]
10. **Haq, K.A. and M.A. Baqui.** [1985]: Development and Evaluation of Agricultural Machinery Suitable for Bangladesh. Proceedings of the Workshop on High Yielding Variety of Rice - [*BRR*]
11. **Haq, K.A., Islam, M.N., Rashid, M.A., Mondal, M., Islam, N and G. Mowla** [1985]: Evaluation of Large Scale Irrigation Systems: The Ganges-Kobadak Project Experience. Proceedings of the International Seminar on Methodologies to Evaluate Performance of Irrigation Systems - [*BARC*]
12. **Haq, K.A., Islam, Z. and M.A. Sattar** [1985]: Low Irrigation Strategies for Rice Production. Proceedings of the Seminar on Low Water Demanding Crops. BARC. Dhaka.
13. **Baqui, M.A. and K.A. Haq.** [1985]: Development of an Animal Driven Pump for Ground Water Pumping. Paper Presented in the workshop on Small Agricultural Equipment for Developing Countries – [*International Rice Research Institute, Philippines*]
14. **Islam, Z., Haq, K.A. and L.R. Bhuiyan** [1986]: Effect of Different Water Management Practices on Grain Yield, Weed Population and Recovery of Applied Nitrogen in Rice Cultivation- [*Bangladesh Journal of Agriculture. Vol. II No.3*]

15. *Kuddus, M.A., Kashem, M.A. and K.A. Haq. [1986]: A Comparative Study on the Effect of Four Drying Methods on Germination of Paddy. Agricultural Mechanization in Asia. Tokyo. Japan.*
16. *Haq, K.A. and S.I. Bhuiyan [1986]: Applied Research for Increasing Irrigation Effectiveness and Crop Production-- An Introduction and Summary of Findings. Paper Presented at the Workshop on Applied Research for Increasing Irrigation Effectiveness and crop Production. Dhaka.*
17. *Ghani, M.A., Rashid, M.A., Mondal, M.K., Islam, N., Mowla, G., Miah, N.I., Islam, M.N., Haq, K.A. and S.I. Bhuiyan [1986]: Irrigation Management Status and Strategies for Improved Water Allocation in the Ganges-Kobadak Irrigation Project. Paper Presented at the Workshop on Applied Research for Increasing Irrigation Effectiveness and Crop Production. Dhaka.*
18. *Haq, K.A., Karim, R., Magor, N.P. and A. Karim [1986]: Status of Improvement in Crop Production Technology, cropping pattern and farmers income at Ganges-Kobadak irrigation project. Paper presented at the workshop on applied research on irrigation effectiveness and crop production. Dhaka.*
19. *Sattar, M.A., Bhuiyan, S.I., Sukuruddin, M. and K.A. Haq [1986]: Technology adoption trends at the irrigation system and farm level. Paper presented at the workshop on applied research for increasing irrigation effectiveness and crop production. Dhaka.*
20. *Haq, K.A., Rahman, T., Haque, A. and M. Sukuruddin. [1986]: Development and management of Human Resources for increasing irrigation effectiveness and crop production. Dhaka. Bangladesh.*
21. *Ghani, M.A., Islam, M.T., Khondaker, M.H.K. and K.A. Haq [1986]: Comparative study and evaluation of different manually operated pumps available in Bangladesh. Paper presented in the workshop on completed contract research project, Bangladesh Agricultural Research Council, Dhaka, Bangladesh, 18-20 August 1986.*
22. *Haq, K.A. [1986]: Transfer of technology in the agriculture sector. Keynote paper presented at annual convention of the Institution of Engineers. Dhaka. Bangladesh.*
23. *Haq, K.A. and M.A. Kalam [1986]: Status of pump irrigation in Bangladesh. Paper presented at International Seminar on Water Lifting Devices, Hangzhou, China.*
24. *Haq, K.A., Hasan, N., Mollah, H.R. and A. Kashem Khan [1987]: Agricultural productivity, modern variety adoption, cropping pattern and farmers income in the North Bangladesh tube well project. Paper presented at the Sixth National Conference of the Bangladesh Agricultural Economist's Association. 7-8 March 1987.*
25. *Sattar, M.A., Haq, K.A. and M.A. Ghani [1987]: Aquifer properties and characteristics of a micro-level ground water basin for tube well utilization. Bangladesh Journal of Agricultural Engg. Vol.1 No.2.*
26. *Khondaker, M.H.K., Baqui, M.A. and K.A. Haq [1988]: Development of a groundnut Sheller. Bangladesh Journal of Agricultural Engineering. Vol.2 No.2.*
27. *Baqui, M.A. and K.A. Haq [1989]: Harnessing the under utilized animal power for pumping irrigation water in Bangladesh. Agricultural Mechanization in Asia, Africa and Latin America. Vol.20 No.3.*
28. *Islam, M.S. and K.A. Haq [1991]: Development of a low-cost weeder for lowland paddy. Agricultural Mechanization in Asia, Africa and Latin America. Vol. 22 No. 1: 45-48.*
29. *Haq, K.A [1991]: Use of modern irrigation systems in Arab countries- potential for trickle irrigation- Paper presented at the w/shop on Use of Modern Irrigation Systems in Arab Countries, Kenitra, Morocco, Oct 8-11, 1991.*
30. *Haq, K. A [1991]: Irrigation water management and wheat production in selected areas of Gezira scheme in Sudan. Paper presented at Annual Internal Review of International Irrigation Management Institute, Colombo, Sri Lanka, December 2-5 1991.*
31. *Rashid, M.A, M.N. Islam and K.A. Haq. Irrigation efficiency and crop production in a large scale irrigation system. Accepted on 23.5.93 in Bangladesh J. of Agril. Engineering, Vol. 6.*
32. *Islam, M.N, S.M.M. Rahman, K. A. Haq and M.R. Islam. Technical and economic evaluation of deep tubewell irrigation system. Accepted on 29.6.93 in Bangladesh Rice Journal, vol. VII.*
33. *Islam, M.T, M.M. Haq, M.A. Baqui, M.S. Islam and K.A. Haq: Operation of manual pumps in the farmers' field in Bangladesh I-A feasibility study. Published in Bangladesh Rice Journal, Vol. 3, No. 1&2, 1992.*
34. *Islam, M.S, M.M. Haq, M.A. Baqui, M.T. Islam, M.H.U. Sarkar and K.A. Haq : Operation of manual pumps in the farmers field of Bangladesh. II-Field evaluation and extension. Published in Bangladesh Rice Journal, Vol. 3, No. 1&2, 1992.*
35. *Haq, K.A[2003]: Water supply and sanitation in Dhaka: Issues of operation and maintenance- Paper presented in the session on "Operation and Maintenance Network" of 3rd World Water Forum held in Kyoto, Japan during 16-23 March 2003.*

References

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