

Curriculum Vitae of

DR. ABUL BASAR MD. ZAHID HOSSAIN

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Biography

Name : Dr. Abul Basar Md. Zahid Hossain
Father's name : Late Anwar Hossain
Mother's name : Late Jebunnessa
Date of Birth : 30th November, 1970
Religion : Islam
Nationality : Bangladeshi (By Birth)
Marital Status : Married
Hobby : Traveling, Listening Music, Reading Books

Present address : Dr. Abul Basar Md. Zahid Hossain
Senior Scientific Officer
Irrigation & Water Management Division
Bangladesh Rice Research Institute
Gazipur-1701
Bangladesh

Permanent address: Village -Bonogram (South), PO-Bera,
PS -Bera, Dist-Pabna,
Bangladesh

Educational Qualification

2013 PhD in Irrigation and Water Management, Bangladesh Agricultural University, Mymensingh.

Title: Solute Transport Characteristics through Different Textured Soils

2005 Master of science in Irrigation & Water Management (IWM) Bangladesh Agricultural University, Mymensingh.

Title: Monitoring Salt Dynamics in Three Saturated Soils by Using Time-Domain-Reflectometry (TDR)

Courses studied: Drainage Engineering, Ground Water Engineering, Open Channel Flow, Water Resource Planning, Irrigation Systems Planning and Design, Agricultural Meteorology, Irrigation Engineering, Surface Water Hydrology, Soil-Water-Plant Relationship, Flood Control, Irrigation System Evaluation and Engineering Mathematics.

1997 Bachelor of Science in Agricultural Engg.
Bangladesh Agricultural University,
Mymensingh [1st class, 7th position]

Major Courses Studied:

Ground Water and Wells, Hydraulic Machinery and Irrigation Structure, On Farm Water Management, Agricultural Meteorology and Hydrology, Soil and Water conservation Engineering, Irrigation and Drainage Engineering, Fluid Mechanics and Hydraulics, Soil Science, Agronomy, Agricultural Statistics, Mathematics, Engineering Analysis etc.

1988 Higher Secondary Certificate
Dhaka College, Dhaka. 1st Division, Science Group

1986 Secondary School Certificate
Tejgaon Polytechnic Govt. High School, Dhaka
1st Division, Science Group

Computer Skill: MS word, Excel, MSTAT-C, Cropwat 8.0, AutoCAD

English Language proficiency:

Instruction of courses studied was in English
Writing and Speaking Ability: Good

Communication skills:

Both English and Bengali can be used fluently

Job Experience: About 16 (Sixteen) years job experience:

Working as a **Scientific Officer** in Irrigation and Water Management division, Bangladesh Rice Research Institute (BRRI) since 21 August, 2001 to 3 August 2010.

Senior Scientific Officer in Irrigation and Water Management Division, Bangladesh Rice Research Institute (BRRI) since 04 August, 2010 to date.

Conducted "Feasibility study of solar pump for irrigated rice" as a Co-**Investigator** at BRRI research field under Irrigation and Water Management Division, BRRI, Gazipur.

Working Scientist of "Integrated Agricultural Productivity Project (IAPP)-BRRI Component at Rangpur, Kurigram, Lalmonirhat and Nilphamari districts since 2012 financed by MoA and World Bank. Main responsibilities are adoption and validation of water management technologies in the farmer's fields developed by Irrigation and Water Management Division, BRRI.

Co-Investigator of "Water saving potential and varietal performance of aerobic rice in Gazipur and Rajshahi districts, financed by Krishi Gobeshona Foundation (KGF).

Worked at Bangladesh Agricultural Research Institute (BARI) as a **Scientific Officer** in Irrigation and Water Management division from 06 September 1998 to 29 February, 2000.

Worked at Department of Agriculture Extension (DAE) as an **Agricultural Engineer** from 02 March, 2000 to 20 August, 2001.

Worked as a **Senior Irrigation Consultant** from 30 March 2015 to 29 March 2016 in Rural Electrification and Renewable Energy Development Project (REREDP) – II (Solar Irrigation Pump Project) Infrastructure Development Company Limited (IDCOL) Level-16, UTC Building, 8 Panthapath, Kawran Bazaar, Dhaka

Principal Investigator of "Up-scaling and Application of Solar Photovoltaic Pump for Smallholder Irrigation and Household Appliances in the Central Coastal Region of Bangladesh" Project ID 001, funded by PIU-NATP-2, BARC.

Field of interest: Solute-transport modeling, Wastewater management, Irrigation scheduling, Groundwater modeling, Water quality and Renewable energy etc.

Training:

1. Computer training on DOS, windows, MS word, MS excel, foxpro at BIAM, Dhaka from June 3 to 14 September, 1997
2. Biogas technology training program at BSTRC, Dhaka from 09 April to 19 April, 2000
3. Rural Development and Poverty Alleviation at BRDTI, Sylhet from 15 April to 19 April 2007
4. Foundation Training Course for NARS Scientists (Batch-16) at BARD, Comilla from 11 February to 10 June 2007
5. Integrated Field Water Management BRRI, Gazipur from 26 August to 28 August 2007
6. Data analysis : MStatC and SPSS at GTI, BAU, Mymensingh from 12 July to 24 July 2008
7. Study visit to Belgium at Katholieke University of Leuven for PhD reference collection from 26 November to 17 December, 2010
8. Application Software for Agricultural Research and Development for NARS Scientist at BARI, Gazipur from 18 November to 29 November 2012
9. Research Proposal preparation and Scientific Report Writing at BRAC-CDM, Rajendrapur, Gazipur from 09 February to 13 February 2013
10. Concept and Practice of Integrated Water Resources Management (IWRM) at CEGIS, Gulshan, Dhaka from 16 to 20 April 2017

Membership of prof. bodies:

1. Bangladesh Society of Agricultural Engineering (BSAE)
2. The Institution of Engineers, Bangladesh (IEB)
3. Krishibid Institution of Bangladesh (KIB)

Awards:

- 1) Fellowship Awarded from Outreach Research Program of BRRI, Ministry of Agriculture, Government of the People's Republic of Bangladesh, 2003
- 2) PhD Fellowship Awarded under Belgian Directorate General for Development Cooperation (DGDC) through the 'Vlaamse Interuniversitaire Raad' (VLIR; Flemish Interuniversity Council) being Implemented by Bangladesh Agricultural University at Mymensingh, Bangladesh
- 3) Fellowship Awarded by National Science and Information &

Communication Technology 2008-2009 & 2010-2011, Ministry of Science and Technology, Government of the People's Republic of Bangladesh

- 4) VLIR-UOS awarded for Study visit at Katholieke University of Leuven, Belgium , 2010

Publications:

1. Alam, M. M., M. K. Mondal, **A. B. M. Zahid Hossain** and G. K. Bhuiyan. 2006. Soil Moisture Content and Salinity Dynamics of Ploughed and Unploughed Land in the Coastal Region of Bangladesh. *Int. J. Sustain. Agri. Tech.* 2(2): 69-76.
2. **Hossain, A. B. M. Z.** and M. A. Mojid. 2006. Construction of Time-Domain Reflectometry (TDR) Sensor for Measuring Soil-Water Content. *Int. J. Sustain. Agri. Tech.* 2(3): 14-20.
3. **Hossain, A. B. M. Z.** and M. A. Mojid. 2006. Monitoring Salt Dynamics in Three Saturated Soils by Using Time-Domain-Reflectometry (TDR). *Journal of the Engineering Institution of Bangladesh.* Vol. 32/AE, December.
4. **Hossain, A. B. M. Z.,** A. H. Khan and M. A. Sattar. 2006. Water Management in Alternative Tillage and Crop Establishment Methods for Crop Diversification in Rice-Wheat Cropping System. *Progress. Agric.* 17(1): 239-247.
5. Nath, S. R., M. A. Mojid and **A. B. M. Zahid Hossain.** 2006. Salt Leaching Characteristics of Three Different Textured Soils Measured by Time-Domain-Reflectometry (TDR). *Bangladesh J. Agril. Engg.* 17 (1&2): 9-18.
6. Pathan, A. B. M. B. U., M. A. Mazid Miah, Fazana Islam, **A. B. M. Zahid Hossain** and M. Nazmul Hasan. 2007. Mineral Nutrition and Yield of Sesame Genotypes in Southwestern Coastal Saline Region of Bangladesh. *Bangladesh J Agril. Res.* 32(3):387-391.
7. **Hossain, A.B.M.Z.,** M.G.K. Bhuyan and M. Huda. 2010. Development of a Method for Selecting Two-Wheel Drive Tractor. *Echo-friendly Agril. J.*3(3): 154-158.
8. Biswas S. K., M. A. Hossain, **A. B. M. Zahid Hossain** and M. A. Islam. 2007. Effect of Water Stress on Yield of Maize. *Bangladesh J. Agril. Engg.* 18 (1 & 2) 31-36: 2007.
9. Mojid, M.A., G.C.L. Wyseure, S.K. Biswas and **A.B.M.Z. Hossain.** 2010. Farmers' perceptions and knowledge in using wastewater for irrigation at twelve peri-urban areas and two sugar mill areas in Bangladesh. *Agric. Water Manage.* 98(1): 79–86.
10. Mojid, M.A. and **A. B. M. Zahid Hossain.** Conjunctive Use of Saline and Fresh Water for Irrigating Wheat (*Triticum aestivum* L.) at Different Growth Stages. 2013. *The Agriculturists* 11(1): 15-23.
11. Mojid, M.A., **A. B. M. Zahid Hossain,** V. Cappuyns and G. C. L. Wysere. 2016. Transport characteristics of heavy metals, metalloids and pesticides through major agricultural soils of Bangladesh as determined by TDR. *Soil Research* 54(8) 970-984.
12. Islam, M. Sh., **A.B.M. Zahid Hossain,** M.S. Miah, S.M. Shahriar and M.A.A. Mamun.2017. Evaluation of Aus Rice (*Oryza sativa* L.) Production in Less Irrigated Situation in Northern Region of Bangladesh. *The Agriculturists* 15(1):110-115.

13. Mojid M., A., **A.B.M. Zahid Hossain** and Guido C. L. Wyseure. 2018. Relation of reactive solute-transport parameters to basic soil properties. *Eurasian J Soil Sci* 2018, 7 (4) 326 – 336.
14. **Hossain, A. B. M. Z**, Md. Mahbubul Alam and Nazmun Nahar Karim. Shifting from Boro to Braus paddy cultivation - Option to overcome water scarcity during dry season in Rangpur region. *BANCID, Yearly Newsletter* 2017.
15. Mojid M., A., **A.B.M. Zahid Hossain** and Guido C. L. Wyseure. 2019. Impacts of Municipal Wastewater on Basic Soil Properties as Evaluated by Soil Column Leaching Experiment in Laboratory. Received: 29 May 2018 / Accepted: 25 February / 2019. *Journal of Soil Science and Plant Nutrition* 2019. Published on line 08 April 2019.
16. Mojid M., A., **A.B.M. Zahid Hossain**, Guido C. L. Wyseure and Md. Ali Ashraf. 2018. Pedo-transfer functions with multiple linear regressions to predict solute-transport parameters. *Eurasian J Soil Sci* 2019, 8 (3) 196 – 207
17. Mojid M., A., **A.B.M. Zahid Hossain** and Guido C. L. Wyseure. 2019. Impacts of Municipal Wastewater on the Transport Characteristics of Reactive Solutes through Agricultural Soils. *Communications in Soil Science and Plant Analysis*, 50 (10) 1199 – 1213.
18. Mojid M., A., **A.B.M. Zahid Hossain** and M. A. Ashraf. 2019. Artificial Neural Network Model to Predict Transport Parameters of Reactive Solutes from Basic Soil Properties. Received 9 March 2019, Accepted 5 October 2019. *Environmental Pollution*, Volume 255, Part 2, December 2019, 113355.
19. Aziz M., A., A. B. M. Zahid Hossain, M. Moniruzzaman, R. Ahmed, T. Zahan, S. Azim, M. A. Qayum, M. A. A. Mamun, M. A. Kader, N. M. F. Rahman. 2021. Mapping of Agricultural Drought in Bangladesh using Geographic Information System (GIS). Received 5 April 2021, Accepted 2 June 2021. *Earth Syst Environ*.
20. Mojid M., A, S. K. Biswas and A B M Zahid Hossain. 2021. Can a Rice Field Ingest Untreated Municipal Waste Water Beneficially in Bangladesh? *J Rice Res Dev* 4(1):307-316.

Report:

Rashid, M. H., M. A. K. Mridha, M. S. Islam, M S. Alam, S. K. Biswas, M. A. Hossain, M. M. Hossain and **A. B. M. Zahid Hossain**. 1999. Improvement of the water resources management for a sustainable rice-wheat system in Dinajpur and Jessore areas. Annual report 1998-1999. A contract research project funded by ARMP/BARC.

Workshop and Symposium:

Khan, A. H., Kutub Uddin, M. A. Begum, H. Rashid, M. Alam. , S. Rahman, **A. B. M. Zahid Hossain**, A. Quddus, N. Islam, A. Hossain, A. M. Miah, A. R. Gomosta, R. J. Buresh and J. K. Ladha. Progress Report of ADB and Other Funded Rice-Wheat System Research at Chuadanga Site. Report prepared for presenting at RTCC/RSC meetings held in Islamabad, Pakistan from 7-12 February, 2004.

Khan, A. H., M. M. Alam, Kutub Uddin, Z. Rahman, S. Rahman, R. Islam, **A. B. M. Zahid Hossain**, A. Quddus, N. Islam, B. A. A. Mustafi, A. M. Miah and A. R.

Gomosta. Progress Report of ADB Funded Rice-Wheat System Research at Chuadanga Site. Report prepared for presenting at RTCC meetings held in Kathmandu, Nepal from March 4-6, 2003.

Hossain, A. B. M. Z. Current State of Climate Information Application in the Agriculture Sector of Bangladesh. Paper prepared for presenting at Climate Services Users Forum for Agriculture (CSUF-Ag2) held in Nay Pyi Taw, Myanmar from September 28-29, 2016.

Chapter in Book: Hossain, A.B.M., Islam, M.T. and Rahman, N.M.F.2019. Agricultural Drought Forecasting for Mitigating Drought in T. Aman Rice. Book of Abstract. International Conference on Contemporary Research and Applications of Meteorology held at BMD, Dhaka. 07 December, 2019.

Poster:

1. Guido Wyseure, Ma Mojid, Sk Biswas, and **ABMZ Hossain**. The implications of (re-)use of waste-water for irrigation in Bangladesh. Poster, Geophysical Research Abstracts, Vol. 13, EGU2011-12092, 2011.

References:

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