

Resume of

Asiful Hoque PhD

Professor,

Dept. of Civil Engineering

Chittagong University of Engineering & Technology

Chittagong - 4349, Bangladesh.

Date of Birth: 7th December 1978.

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House # 368, Road # 14, Block-B,

Chandgaon R/A, Chittagong-4212, Bangladesh.

EDUCATION

Hokkaido University:

(March 2012)

Hokkaido, Japan: Doctor of Engg. In Environmental Engineering

Hokkaido University:

(March 2011)

Hokkaido, Japan: Diploma In Sustainability Science

Bangladesh University of Engineering and Technology (BUET):

(October 2006)

Dhaka, Bangladesh: M.Sc. In Environmental Engineering

Bangladesh University of Engineering and Technology (BUET):

(February 2003)

Dhaka, Bangladesh: B.Sc. In Civil Engineering

Chittagong College:

(1996)

Chittagong, Bangladesh: Higher Secondary School Certificate

Chittagong Govt. High School :

(1994)

Chittagong, Bangladesh: Secondary School Certificate

PROFESSIONAL COURSES AND RESEARCH

Professional Courses:

Training on Trainer on “Fecal Sludge Management”

30 June 2019-4 July 2019

Developed by Eawag, Switzerland

Delivered by Eawag, Switzerland

Venue: ITN-BUET, Bangladesh

Online Course on “Fecal Sludge Management”

16 weeks online course successfully completed on 24 August 2016

Developed by UNESCO-IHE and Global FSM e-Learning

Offered by ITN-BUET, Bangladesh

Short Course on “WASH in urban low-income communities”

November 15 – November 19, 2015. ITN-BUET

Organized and supported by WEDC, ITN-BUET, WSUP, and UKaid

Diploma of Inter-department Graduate Study in Sustainability

Hokkaido University

September 2010

Certificate Course on Integrated Research System for Sustainability Science

University of Tokyo, Kyoto University, Osaka University, Hokkaido University and Ibaraki University

March 2010

Course on Intensive Japanese Language

Hokkaido University, October 2008- March 2009

Funded by Japanese Govt.

Workshops and Kick-off meeting for ‘Creating Regional Centres of Excellence in Disaster and Environmental Engineering Education in Sylhet and Chittagong of Bangladesh (ReCEDEE)’

April 07-May 03, 2008, University of Kassel, Germany.

University of Kassel, Germany

DAAD- German Academic Exchange Service.

International Training Workshop on Hazardous Chemical Management

December 09-14, 2007, Asian Institute of Technology, Thailand.

Pollution Control Department, Thailand

Training workshop on Integrated Water Resources Management (IWRM) with specific focus on Scientific Methodology and Development of Grant Application

September 02-03, 2007, Saint Martin Hotel, Chittagong.

Specialized Course on Computerized Evaluation Techniques of Training Courses

May 10, 2007, ITN-BUET, Dhaka, Bangladesh.

International Course on Transport Planning and Safety

December 04-10, 2006, IIT Delhi, India.

Bio-Sand Filter Program Implementer Workshop

Feb12-Feb16, 2006, CUET, Chittagong, Bangladesh.

International Training and Research Program for Groundwater Treatment Technologies and Advanced Membrane Process

August19-September1, 2005 Taipei, Taiwan.

Basic Training Courses on water and Sanitation

3r-12 October, 2004. DPHE Training Division, DPHE Bhavan, Dhaka-1000, Bangladesh

Sponsored and supported by World Health Organization

RESEARCH AND ANALYTICAL EXPERIENCE

Institute of River, Harbor and Environmental Science (IRHES)

Chittagong University of engineering and Technology,

Chittagong, Bangladesh :

Director

(January 2024 - Current)

Department of Civil Engineering

Chittagong University of engineering and Technology,

Chittagong, Bangladesh :

Head of the Department/Chairman

(August 2021-August 2023)

*Department of Water Resources Engineering
Chittagong University of engineering and Technology,
Chittagong, Bangladesh :*

*Head of the Department/Chairman
(October 2019-August 2021)*

*Department of Urban and Regional Planning
Chittagong University of engineering and Technology,
Chittagong, Bangladesh :*

*Head of the Department/Chairman
(October 2017-October 2019)*

*Center for Environmental Science and Engineering
Research(CESER)
Chittagong University of engineering and Technology,
Chittagong, Bangladesh :*

*Chairman
(September 2014-October 2016)*

*Department of Civil Engineering,
Chittagong University of Engineering and Technology,
Chittagong, Bangladesh :*

*Professor
(February 2016- Present)*

*Department of Civil Engineering,
Chittagong University of Engineering and Technology,
Chittagong, Bangladesh :*

*Associate Professor
(July 2014- February 2016)*

*Department of Civil Engineering,
Chittagong University of Engineering and Technology,
Chittagong, Bangladesh :*

*Assistant Professor
(April 2007- July 2014)*

*Department of Civil Engineering,
Chittagong University of engineering and Technology,
Chittagong, Bangladesh :*

*Lecturer
(July 2005- April 2007)*

*Department of Public Health Engineering
Government of Bangladesh :*

*Assistant Engineer in an Environmental
Project of UNICEF.
(July 2003- June 2005)*

Research Project

*Working as Scientific Expert in an international project entitled “**Sustainable Capacity building to reduce Irreversible Pollution by Plastics**”*

Funded by: Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU), Germany

The duration of the project is from 1st April 2022 to 30 November 2024.

Some of other projects as below:

Waste to Assets Evaluating 5R

Funded by: Berger Paints Bangladesh Limited

Assessment of Environmental Pollution in Ship breaking Yard; a case study of Sitakunda, Chittagong, Bangladesh funded by University Grant Commission, Bangladesh

Assessment of Air Pollution in Chittagong City, Bangladesh funded by University Grant Commission, Bangladesh

Assessment of Rainwater for the use of portable purpose funded by Water aid Bangladesh

Journal Publications

M. A. Hossen , **A. Hoque**, M.S. Ahmed, S.K. Pal, H. Jahan, G.Muktadir ” Evaluation of physicochemical and trace metal qualities of rainwater in the south-eastern region of Bangladesh.” Journal of Water Supply: Research and Technology-Aqua (2021) 70 (5): 757–772

M. A. Hossen , A.I. H. Chowdhury , M. R. A. Mullick , **A. Hoque** ”Heavy metal pollution status and health risk assessment vicinity to Barapukuria coal mine area of Bangladesh” Environmental Nanotechnology, Monitoring & Management volume 6(2021)

A. Hoque, A. H. Abir & K. P. Shourov. ”Solar still for saline water desalination for low-income coastal areas.” Applied Water Science volume 9:104(2019).

A. Hoque, M. A Hossen, M. F. Islam & M. I. U. Mahmud, “Seasonal variation of salinity of ground water at Patenga area of Chittagong district in Bangladesh.” Progressive Agriculture, 30, 65-70(2019).

M. A. Hossen, **A. Hoque**, R.A. Jishan, P. Barua, 2018 ”Water Quality Assessment in Terms of Water Quality Index (WQI): A Case Study of the Halda River, Chittagong”, Applied Journal of Environmental Engineering Science, Page 447-455.

M. A. Hossen, S. K. Pal, **A. Hoque**, 2018 "Assessment of air quality for selected locations in Chittagong City Area", Journal of Innovative Research in Engineering & Management, Volume 5 Issue 4 Page 121-128

M. A. Hossen, **A. Hoque**, 2018 "Variation of ambient air quality scenario in Chittagong city: a case study of air pollution", Journal of Civil, Construction and Environmental Engineering, Science Publishing Group Volume 3 Issue 1 Page 10–16

K. i Kimura, S. Nishimura, R. Miyoshi, **A. Hoque**, T. Miyoshi, Y. Watanabe, 2015 "Application of glyco-blotting for identification of structures of polysaccharides causing membrane fouling in a pilot-scale membrane bioreactor treating municipal wastewater", Bioresource Technology Volume 179 Page 180–186

A. Hoque, 2015 "Characteristics of foulants of air-sparged side-stream and sub-merged membrane used to treat municipal wastewater", Journal of Civil Engineering, Volume 43(2), Page 105-113

M. A. Ali, **A. Hoque**, A. B. M. Badruzzaman, F. Ahmed, M. E. Habib, R. B. Johnston, 2015 "Assessment of Performance of Community Iron Removal Plants in Selected Rural Areas of Bangladesh", Journal of Civil Engineering, Volume 43(2), Page 157-167

H. Yamamura, K. Nakashima, **A. Hoque**, T. Miyoshi, K. Kimura, Y. Watanabe, S. Okabe, 2013, "Evaluation of Whole Wastewater Effluent Impacts on HepG2 using DNA Microarray-based Transcriptome Analysis.", Environmental Science & Technology, Volume 47, Page 5425-5432

A. Hoque, T. Miyoshi, K. Kimura, Y. Watanabe, 2012, "Characteristics of foulants in air-sparged side-stream tubular membranes used in a municipal wastewater membrane bioreactor", Separation and purification technology. Volume 93, Page 83-91

A. Hoque, K. Kimura, T. Miyoshi, N. Yamato, Y. Watanabe, 2012 "Performance of Membrane Bio-Reactor Equipped with Air-Sparged Side-Stream Tubular Membrane: Treatment Efficiency and Membrane Fouling", Separation Science and Technology. Volume 47, Issue 10, Page 1455-1463

Conference Publications

M. N. Hossain, **A. Hoque**, M. R. A. Mullick," Plastic Waste Management through Materials Flow Analysis: A Case Study in Chattogram", 7th International Conference on Civil Engineering for Sustainable Development (ICCESD 2024), 7~9 February 2024, KUET, Khulna, Bangladesh

F. Khan, M. H. Masum, M. F. R. Zuthi, **A. Hoque**, E. Kraft, K. M. Hassan, T. T. Jarin, I. Lange, N. Sultana," Potential of Jute Products as a Substitute for Plastic in Bangladesh from Life Cycle Perspective", International Conference on Planning, Architecture and Civil Engineering, October 12 – 14, 2023, RUET, Rajshahi, Bangladesh.

B. Basak, K. Arsh, M. H. Masum, S. K. Pal, **A. Hoque**, Md. M. Hasan, M. Shahidullah, A. Biswas," Evaluating Opportunities Of Transforming Waste Paint Sludge (Ps) to An Asset In Alternative Uses Based on SEM And EDX Analyses", 6th International Conference on Advances in Civil Engineering, December 21-23, 2022, CUET, Bangladesh.

P. Chowdhury, M. M. Toge, **A. Hoque**," Assessment of Carbon Footprint for Producing Bottled Water", 6th International Conference on Advances in Civil Engineering, December 21-23, 2022, CUET, Bangladesh.

M. A. Hossen, **A. Hoque** "Comparative Study of Rainwater Quality at CUET Campus Area, Harvested from Rooftop and Open Space" 5th International Conference on Civil Engineering for Sustainable Development (ICCESD 2020), 7~9 February 2020, KUET, Khulna, Bangladesh

T. Kabir, M. A. Hossen, & **A. Hoque** "Assessment of Particulate Matters Concentration in Air at Selected Locations in Chittagong City" 2nd International Conference on Water and Environmental Engineering (iCWEE-2019) (Vol. 19) January 2019, Dhaka, Bangladesh

A. H. Abir, K. Paul, **A. Hoque** "Performance evaluation of low-cost solar desalination unit for drinking purpose in the context of Bangladesh", 1st International Conference on Frontiers in Energy & Infrastructure, December 18-19, 2018, North-South University, Bangladesh

M. A. Hossen, **A. Hoque** "Assessment of roof top rainwater harvesting system in saline prone area; a case study of Muslimabad housing society, Chittagong", 4th International Conference on Civil Engineering for Sustainable Development, February 9-11, 2018, KUET, Khulna, Bangladesh

A. Hoque, M. F. Islam, M. I. U. Ahmed "Seasonal variation of salinity of ground water at Patenga area, Chittagong", International Conference on Challenges for Future Agriculture, January 27-28, 2018,

Bangladesh Agriculture University, Bangladesh

M. A. Hossen, S. K. Pal, **A. Hoque** "Vehicular emission inventories in metropolitan Chittagong", 3rd International Conference on Advances in Civil Engineering, December 21-23, 2016, CUET, Bangladesh

M. A. Hossen, S. M. K. Hassan, **A. Hoque** "Air pollution in Chittagong city", 3rd International Conference on Advances in Civil Engineering, December 21-23, 2016, CUET, Bangladesh

B M Hanafi, **A. Hoque**, M. Ahmed, "Integrated Water Management System", International Conference on Mechanical Engineering and Renewable Energy, November 26-29, 2015 CUET, Bangladesh

A. Hoque, Katsuki Kimura, "Fouling of Air-sparged Side-stream Tubular Membrane in Different Hydraulic Condition", The 9th International Forum on Strategic Technology 2014, October 21-23, 2014, Bangladesh

A. Hoque, "Side-stream MBR for wastewater Treatment", The Young Researchers and Students Symposium of NSFC-JST Joint Research Program., March 4, 2011, Xi'an, China.

A. Hoque, Taro Miyoshi, Katsuki Kimura, Yoshimasa Watanabe., "Effect of Hydraulic Condition on Membrane Fouling in Air sparged Side-Stream Membrane Bioreactor.", Paper on The International Conference Membranes in Drinking and Industrial water treatment., June 27 – 30, 2010, Norway.

A. Hoque, "Hazardous Waste Management in Bangladesh", The International Training Workshop on Hazardous Chemical Management, Asian Institute of Technology, December 9 – 14, 2007. Thailand.

S.K Pal, **A. Hoque**, I. Tarannum., "An Approach to Assess Environmental Flow for Karnaphuli River in Bangladesh.", The 3rd International Conference on Water and Flood Management, BUET., 2009, Bangladesh.

A. Hoque, "Community Based AIRPs/IRPs in Bangladesh", The International Conference on Water & Waste Water Treatment, Shahjalal University of Science & Technology, Bangladesh., April 1 – 4, 2007. Bangladesh.

A. Hoque, R. A. Mullick, "Two Hazardous Road locations in Chittagong and Their Possible Remedial Measure", International Conference on Road Safety of Developing Country, Accident Research Center, BUET, Bangladesh., August 22-24, 2006. Bangladesh.

A. Hoque, T.Ahmed, M. A. Ali, "Estimation of Non-vehicular Air Pollution in Dhaka City Using Emission Factors", The Third Annual Paper Meet and International Conference on Civil Engineering-2005, Institution of Engineers, Dhaka, Bangladesh. March 9 – 11, 2005. Bangladesh.

Awards

Achieved number of prestigious awards for excellent academic performances which are listed below;

Received Japanese government (MEXT) scholarships for Intensive Japanese Language Course in Hokkaido University (Oct.,2008-March,2009)

Received Japanese government (MEXT) scholarships for Doctoral study in Hokkaido University (Oct.,2008-March,2012)

Merit Scholarship from Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh-six times (1998-2002)

Merit Scholarship of Board of Education, Chittagong, Bangladesh based on result in the Higher Secondary Certificate (H.S.C.) Examination held after two years of college education

Merit Scholarship of Board of Education, Comilla, Bangladesh based on result in the Secondary School Certificate (S.S.C.) Examination held after primary education

Junior School Scholarship

Professional and Consultancy Services

Working as a consultant in different project, some of which are listed below;

Core team member of Strengthening of Existing Runway and Taxiway at Shahamanat International Airport

Environmental and Social Impact Assessment for sluice gate at Mahesh Khal in Chittagong, Bangladesh

Social and Environmental Impact Assessment for Naf tourism park at Teknaf in Cox's Bazar, Bangladesh

Traffic study for Naf tourism part at Teknaf in Cox's Bazar, Bangladesh

Social and Environmental Impact Assessment of Akteruzzaman flyover in Chittagong

Feasibility study of Akteruzzaman flyover in Chittagong

Traffic impact study of Akteruzzaman flyover in Chittagong

Environmental and Social Impact Assessment Imperial Hospital in Chittagong, Bangladesh

Environmental and Social Impact Assessment of South Zone Power Distribution Company, Power Cell, Power Development Board, Bangladesh.

Design deep tube well at least one hundred locations

Assessment of Mn Removal in municipal and community based iron/arsenic removal plants, funded by Unicef

Design and vetting of several water and waste water treatment plant

Design and vetting of several high rise building project

Preparing tendering documents for different several projects

Professional Membership

American Society of Civil Engineers: Student Member (2011-2012)

American Society of Civil Engineers (ASCE): Associate Member (2015-present)

Institutes of Engineers, Bangladesh: Life fellow Member (2004-present)

Language/ Computer Skills

Proficient in written and spoken English and Japanese

Extensive experience with Microsoft Office, software related to civil and environmental engineering

References

Professor Dr. N. Funamizu

Executive Director & Vice President
Muroran Institute of Technology, Hokkaido, Japan
Ex Professor of Hokkaido University, Sapporo, Japan
Email:n_funamizu@mmm.muroran-it.ac.jp

Professor Dr. M. Ashraf Ali

Department of Civil Engineering
BUET, Dhaka-1000,Bangladesh.
Email:ashraf@ce.buet.ac.bd

Professor Dr. A.B.M Badruzzaman

Department of Civil Engineering
BUET, Dhaka-1000,Bangladesh.
Email:borhan@ce.buet.ac.bd

Dr. Hossain Azam, P.E.

Department of Civil Engineering
University of District of Columbia, USA
Email: hossain.azam@udc.edu

Signature



(Dr. Asiful Hoque)