

CURRICULUM VITAE



Name : **PROF. DR. ENGR. MD. HAZRAT ALI**

Date of Birth : June 09, 1964

Address : **Director**, Institutional Quality Assurance Cell (IQAC) & **Professor**
Department of Civil Engineering
Chittagong University of Engineering & Technology
Chittagong-4349, Bangladesh
Tel: 880-31-714948 (O), 8801819783779 (H/P)
Fax: 880-31-714948, 714910
Email: pdrmhali@gmail.com, pdrmhali@cuet.ac.bd

Educational Background : **Ph. D.** (Applied Water Resources Engineering), University Putra Malaysia, Malaysia, January 2000
M. Eng. (Water Eng. & Management), Asian Institute of Technology (AIT), Thailand, April 1997
B. Sc. Eng. (Civil) (*First Class First*), Khulna Univ. of Eng. & Technology, Bangladesh, August 1988
H.S.C. (Science), Rajshahi Board, First Division
S.S.C. (Science), Rajshahi Board, First Division

Teaching Experience:

Lecturer (Civil), Chittagong Univ. of Eng. & Technology (CUET), from 20/11/89-29/04/97

Assistant Professor (Civil), CUET, from 30/4/97-01/7/2001

Associate Professor (Civil), CUET, from 02/7/2001-01/6/2004

Associate Professor (Contract), Faculty of Civil Engineering, Universiti Teknologi Malaysia, from 07/7/2008-06/7/2010

Visiting Professor, Kassel University, Germany

Visiting Professor, UNESCO-IHE, The Netherlands

Professor (Civil), CUET, Bangladesh, from 02/6/2004-Present

Teaching Interest:

1. teaching various theoretical and sessional/practical courses in English medium, namely, Engineering Mechanics, Mechanics of Materials, Environmental Eng, Structure, RCC, Fluid Mechanics, Open Channel Flow, Hydraulic Machinery, Project Planning & Management, Water Resources Eng-I (Hydrology & Flood Control), Water Resources Eng-II (Irrigation & River Eng), Environmental Water Resources, Hydraulic Structures, Advanced Hydrology, Water Resources Planning and Management, Groundwater, Sediment Transport, Coastal Zone Engineering, Statistical Methods in Hydrology, Urban Stormwater Management, Water Supply, etc., to undergraduate and postgraduate students,

2. supervising and evaluating theses relating to WRE/Civil Engineering undergraduate and postgraduate students,
3. developing curriculum and extra-curriculum activities,
4. working as Chairman/member of Examination Committee, examiner, moderator, scrutinizer & tabulator,
5. working as a consultant in the fields of water resources management and Development, rationing and calculating water requirement of various sectors (industrial, Agriculture, and domestic), institutional development and capacity building, dam hydrology for the feasibility and detailed design level study and construction of earth/rockfill/gravity dams and small retention dams, Dam safety aspects such as dam break, dam breach hydrographs, flood routing, erosion and damage due to high floods and its remedial works, computations of Yield analysis, sedimentation in the reservoir, measurement, estimation of PMP & PMF, routing of design floods and yield assessment, Flood protection to downstream area of the dam, Civil Engineering materials, buildings, bridges, hydraulic structures, etc. and
6. performing any other relevant duties assigned by the Vice-Chancellor/Head of the Dept. from time to time.

Teaching Philosophy:

My teaching philosophy is to guide students through the learning process. The integration of available technology and resources is a great equalizer that helps foster a student-centered learning. I always assign assignments, individual term-paper and the group term-paper. Reading lists include both classics in the subject matter and recent, innovative, leading edge thinking about it for outcome based education (OBE). My lectures are usually aided by Powerpoint presentations. I always draw relevant examples from my practical experiences. Depending on the subject/course, a demonstration/use of a particular software is also applicable. A field visit to technology systems/innovations is also arranged.

Most importantly, I inspire my students to come prepared for the class, be able to think and participate in discussion. My availability even after class hours helps students more during the semester and even while they are at work.

Any assessment of student progress and growth means an assessment of the teaching. I welcome any feedback to help tune my teaching style. Used together, the results of the class tests/quizzes, the quality of the term paper and presentation, the results of the mid-term and final examinations and the feedback from a customized evaluation form should point to teaching success or failure.

Research Interest:

(1) Water Balance Study and its Components Modeling, (2) Modeling Optimal Water Resources Management and Planning, (3) Reservoir Simulation Modeling, (4) Stochastic Modeling, (5) Modeling Instability Analysis of Alluvial River, (6) Flood Risk Assessment and Management, (7) Shear Strength of Concrete Beams, (8) Arsenic Problems, (9) GIS, (10) Climate Change Impacts

Award/Scholarship:

1. SOBA (Shibpur Old Boys' Association) Scholarship for Undergraduate Degree.
2. University Gold Medal for First Class First position in B.Sc. Engineering.
3. DAAD (Germany) Scholarship for M. Eng. Degree.
4. AITAA Research Grant for M. Eng. Thesis.
5. IRPA (Malaysia) Scholarship for Ph.D. Degree.

6. UNESCO Grant for Participating in the Regional Training Course on Simulation Models in Engineering and Technology, IIT Madras, India.
7. GFZ, Potsdam, Germany and UNESCO Grant for Participating in the International Training Course on Seismology, Seismic Data Analysis, Hazard assessment and Risk Mitigation, Potsdam, Germany.

Major Professional/Administrative Experience:

1. Assistant Provost, Shahid Tarek Huda Hall, CUET, April 30, 1992 to Dec 21, 1993.
2. Provost (In-charge), Shahid Tarek Huda Hall, CUET, Dec 22, 1993 to Jan 01, 1995.
3. **Graduate Assistant**, Faculty of Engineering, University Putra Malaysia, June 1997 to November 1999: the responsibility includes teaching theoretical courses and conducting sessional/practical classes of the undergraduate students and examining the same, and carrying out the assignments given by the Supervisor from time to time.
4. **President**, CUET Club, 2000-2001 financial year.
5. **Provost**, Dr. Q.K. Hall, CUET, Nov 01, 2000 to June 10, 2002.
6. **Vice-Chairman**, CUET Campus Govt. Primary School Governing Body, March 13, 2001 to June 05, 2008.
7. **Provost**, Shahid Mohammad Shah Hall, CUET, July 18, 2002 to June 2003.
8. Member-Secretary, Bureau of Research Testing & Consultancy (BRTC) Committee, April 2000 to March 31, 2003.
9. **Chairman**, Campus Security Committee, CUET, July 04, 2002 to Sept. 2006.
10. **Chairman**, Tender Evaluation Committee, CUET, Aug 12, 2002 to April 02, 2005.
11. **Head, Department of Civil Engineering, Chittagong Univ. of Eng. & Technology (CUET), April 01, 2003 to April 02, 2005.**
12. **Chairman**, Bureau of Research Testing & Consultancy (BRTC) Committee, April 01, 2003 to April 02, 2005.
13. Member, CUET School & College Governing Body (responsibility includes to act as Chairman of academic sub-committee and Development sub-committee), 2004 to June 2008.
14. **Provost**, Dr. Q.K. Hall, CUET, May 01, 2005 to June 30, 2008.
15. Chairman, House Allotment Committee, July 2005 to Sept. 2006.
16. **Member-Secretary**, Quality control of building materials used in Chittagong, IEB, Chittagong Centre, 2006 to 2007.
17. **Chairman**, Transport Committee, CUET, February 2006 to Sept. 2006.
18. **Member, Sanitation and Water Supply Master Plan Review Committee of Chittagong WASA, Bangladesh, April-May 2008.**
19. **Adviser**, Ranihati Library, Chapi Nawabganj, Bangladesh, Jan. 2006 to November 2008.
20. **Member**, Task-Force Publication, Department of Hydraulics and Hydrology for the Research University (RU), Faculty of Civil Eng., University Technology Malaysia, Dec. 18, 2008 to present.
21. **Committee Member**, Corporate Communication and Internationalization Committee, Faculty of Civil Engineering, Universiti Teknologi Malaysia, September 1, 2009 to present.
22. **Speaker**, Research Methodology Short Course, Semester I, Session 2009-2010. Faculty of Civil Engineering, Universiti Teknologi Malaysia, August 18, 2009.

23. **Keynote Speaker**, HEQEP, CUET, Bangladesh.
24. **Chairman**, Bureau of Research Testing & Consultancy (BRTC) Committee, August 02, 2012 to present.
25. **Chairman**, Academic Committee, CUET Campus School & College, Oct. 2010 to January 2013.
26. **Director**, Research and Extension, Chittagong University of Eng.& Technology, Chittagong-4349, Bangladesh, Sept. 2010 to Aug. 2012.
27. **Syndicate Member**, Chittagong University of Eng. & Technology, Chittagong-4349, Bangladesh, Sept. 2010 to Aug. 2012.
28. **Chairman**, 1st International Conference on Advances in Civil Engineering, Dept. of CE, CUET, Bangladesh, 12-14 Dec. 2012.
29. **Head**, Dept. of Civil Engineering, CUET, 02 August 2011 to 17 August 2013.
30. **Member**, Academic Committee, CUET Campus School & College, January 2013-present.
31. **Member**, Board of Governors (BOG), Institute of Earthquake Engineering Research (IEER), CUET, January 11, 2013 to present.
32. **Visiting Professor under DAAD funded ReCEDEE Project, Kassel University, Germany, 2 weeks in 2011.**
33. **Dean**, Faculty of Architecture and Planning, CUET, October 2013-02/10/2015
34. **Director**, Planning and Development, CUET, April 2014-Jan 15, 2015
35. **Visiting Professor at UNESCO-IHE, 30/5/2015-14/6/2015**
36. **Syndicate Member**, CUET, 17/3/2014 to 16/3/2016
37. **Dean**, Faculty of Civil Engineering, 03/10/2015 to 03/10/2017
38. **Director, Institutional Quality Assurance Cells (IQAC), CUET, July 01, 2015 to present**
39. **Member**, Technical Evaluation Committee (TEC) of Bhandaljuri Water Supply Project of Chittagong WASA, Bangladesh
40. **Principal Speaker** on CCC Master Plan

Professional Member:

1. Professional Fellow (F/4631), The Institution of Engineers, Bangladesh.
2. Life Time Regular Member, Asian Institute of Technology Alumni Association (AITAA), Bangkok, Thailand.
3. Fellow and Honorary Vice President of the Royal Institute of Water Engineers, Singapore.
4. Member, Cyprus Computer Society.
5. Who's Who in the World Bibliography.
6. Who's is Who in the Asia-Pacific Bibliography.
7. DAAD Alumni.

Professional Training/Workshop:

1. *Participation* in the Industrial Training, Dhaka, Bangladesh, Sept. 5 to Nov. 5, 1988.
2. *Participation* in the Workshop on River Engineering, BUET-DUT (Delft Univ. of Technology) Linkage Project, Dhaka, January 9-14, 1993.
3. *Participation* in the Workshop on Planning for Integrated Water Resources Management, BUET-DUT Linkage Project, Dhaka, December 11-14, 1993.

4. *Participation* in the Geographic Information System (GIS) Workshop, Faculty of Engineering, University Putra Malaysia, Malaysia, 23-26 June 1997.
5. ***Participation in the Regional Training Course on Simulation Models in Engineering and Technology, IIT Madras, India (Sponsored by UNESCO), from March 12, 2001 to March 23, 2001.***
6. *Participation* in the Orientation Workshop on Participatory Approaches for Community Development, ITN Center, BUET, Dhaka, 12-13 May 2001.
7. *Participation* in the 46th Convention of the Institution of Engineers, Bangladesh, Dhaka, 10-13th March 2002.
8. *Participation* in the Training Course on Effective Office Communication, Engineering Staff College, Bangladesh, 5-7 July 2002.
9. *Participation* in the 49th Convention of the Institution of Engineers, Bangladesh, Dhaka, 2005.
10. *Participation* in the Groundwater Management, BUET-DUT Linkage Program Phase III, 21-24 August 2005.
11. *Participation* in the Workshop on Post-Earthquake Engineering Response Management: the Pakistan Perspective, January 31, 2006.
12. *Participation* in the Final symposium on BUET-DUT Linkage Project Phase III, May 25, 2006.
13. ***Participation in the International Training Course on Seismology, Seismic Data Analysis, Hazard assessment and Risk Mitigation, Potsdam, Germany, Aug. 05-Sept. 08, 2007.***
14. Participation in the Induction Course for International Staff, Mahkota Hotel, Melaka, Malaysia, 18-23 January 2009.
15. Participation in the Workshop on Strategic Planning for Water Research Alliance, Mercure Hotel, Senai, Johor, Malaysia, July 07-08, 2009.
16. Participation in the Teaching and Learning Course for International Staff, The Pines Resort, Fraser's Hill, Pahang, Malaysia, January 16-18, 2010.
17. Participation in the Workshop on IQAC Project Proposal Writing, UGC, Dhaka, Bangladesh, May 2015.
18. Participation in the Review Workshop on Implementation Plan of QAU and IQAC, UGC, Dhaka, Bangladesh, June 27, 2015.
19. Participation in the Quality Assurance Training, Petaling Jaya, Malaysia, 2 weeks in November, 2015.

Experience in Handling Research Project:

1. **Coordinator/Senior Academic Partner**, Regional Center of Excellence in Disaster and Environmental Engineering (ReCEDEE) at Chittagong Univ. of Eng. & Technology and Shahjalal Univ. of Science & Technology, 2008-2011, DAAD Project Ref. No. 432.

2. **Partner Member**, Seismic Hazard and Vulnerability Mapping of Dhaka, Chittagong and Sylhet City Corporation Areas. ADPC Project of CDMP, Dhaka, Bangladesh.
3. **Project Leader**, Investigation of Climate Change Impact for Sustainable Water Management in Muda Irrigation Scheme, Alor Setar, Malaysia. Research Management Center (RMC), UTM, Malaysia.
4. **Researcher**, Developments of Impact Simulation Models with Adaptation to Climate Change on Kerian, Muda and Sungai Besar Irrigation Schemes. E-Science, Malaysia.
5. **Coordinator/Senior Academic Partner**, DAAD financed SEAN-DEE project, 2012-2015.
6. **Project Director**, NICHE/BGD/081 project, 2011-2015.
7. **SPM**, World Bank Financed Project, UGC, HEQEP CP-174, CUET, 2011-2013.
8. **Director**, Institutional Quality Assurance Cell (IQAC) at CUET, World Bank Financed Project, UGC, July 01, 2015-present.

Supervision/Evaluation of Postgraduate Students:

1. **Supervisor** of Ph.D. Student, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
2. **Supervisor of M. Eng. Student, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.**
3. **Chairperson**, M. Eng. Pre-Project Presentation on “Design of Detention Pond using Monte Carlo Simulation”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
4. **Chairperson**, M. Eng. Pre-Project Presentation on “Water Distribution Improvement Study for Sungai Rengit, Johor”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
5. **Chairperson**, M. Eng. Pre-Project Presentation on “Non-Revenue Water Study”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
6. **Member**, Ph.D. Research Proposal Presentation on “Impact of Ex-mines and mine activities on Groundwater and Soil”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
7. **Chairperson**, M. Eng. Pre-Project Presentation on “Evaluation Level of Background Leakage Through Infrastructure Conditions Factor (ICF)”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
8. **Chairperson**, M. Eng. Pre-Project Presentation on “Groundwater Study at Kota Bharu, Kelantan”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
9. **Member**, Ph.D. Research Proposal Presentation on “Development of a Finite Element Model for Non-Aqueous Phase Liquids Migration in Subsurface System”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
10. **Chairperson**, M. Eng. Thesis Defense on “Water Distribution Improvement Study for Sg. Rengit, Johor”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
11. **Chairperson**, M. Eng. Thesis Defense on “A Study of Impact of Freshwater by Salinity in Sg. Pulai using WASP and EFDC”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.

12. **Chairperson**, M. Eng. Thesis Defense on “Groundwater Study for Shallow Alluvium Aquifer at Kota Bahru, Kelantan”, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia.
13. **Member**, Board of Ph. D. Student Supervisors, Physics Dept., CUET
14. **Supervisor of M. Eng. Student**, Dept. of Disaster & Environmental Engineering, CUET.
15. **Supervisor of Ph.D. Student**, Dept. of Civil Engineering, CUET.

Computer Proficiency:

1. *Word Processors*: Microsoft Word, Microsoft PowerPoint, WP5.1, 5.2, and WP6.0.
2. *Utilities/Applications*: Microsoft Excel, Microsoft Access, Harvard Graphics, Lotus 1-2-3, MapInfo, IDRISI, SPAN.
3. *Modeling Performance*: MIKE 11 & MIKE 21, HEC-HMS, HEC-RAS, Delft 3D, ARENA, ANSYS, SEISAN, Seismic Handler Model, and ZMAP.
4. *Languages*: Mathematica, FORTRAN

Country Travelled for Professional/Project Purposes:

1. Thailand (several times)
2. Malaysia (several times)
3. India (several times)
4. Germany (several times)
5. The Netherlands (several times)
6. Belgium
7. Turkey
8. Dubai (thrice)
9. Nepal

List of Publications:

(a) Journal Paper

1. Md. Monjur Hossain, M. Shamim Z. Bosunia, **Md. Hazrat Ali**, 1999. The Effect of Web-Reinforcement on the Shear Capacity of Brick Aggregate Concrete Beams. *Pertanika J. Sci & Technol*, ISSN: 0128-7680, **7(1)**: 1-11.
2. **Md. Hazrat Ali**, Lee Teang Shui, Kwok Chee Yan, Aziz F. Eloubaidy, and K.C. Foong, 2000. Modeling water balance components and irrigation efficiencies in relation to water requirements for double-cropping systems. *J.Agril. Water Management, Elsevier Science B.V.*, **46**: 167-182.
3. **Md. Hazrat Ali**, Lee Teang Shui, Kwok Chee Yan, and Aziz F. Eloubaidy, 2000. Modeling Evaporation and Evapotranspiration under Temperature Change in Malaysia. *Pertanika J. Sci&Technol*, ISSN: 0128-7680, **8(2)**: 191-204.
4. **Md. Hazrat Ali**, Lee Teang Shui, Kwok Chee Yan, Aziz F. Eloubaidy, and K.C. Foong, 2001. Reservoir Storage Simulation and Reliability Based Forecasting. *Journal-Institution of Engineers, Malaysia*, **62(1)**: 17-28.
5. **Md. Hazrat Ali**, and Lee Teang Shui, 2001. Optimal Allocation of Monthly Water Withdrawals in Reservoir Systems. *J. Water Resources Management*, **15**: 323-341.
6. **Md. Hazrat Ali**, M. Monjur Hossain, and M. Shamim Z. Bosunia, 2001. Shear Strengths of Brick Aggregate Web Reinforced Concrete Beams. *Pertanika J.*



- Sci&Technol*, ISSN: 0128-7680, **9(2)**: 207-217.
7. **Md. Hazrat Ali**, and Harumichi Kyotoh, 2002. Instability Analysis of the Jamuna River, Bangladesh. *Pertanika J. Sci & Technol*, ISSN: 0128-7680, **10(1)**: 229-250.
 8. **Md. Hazrat Ali**, Lee Teang Shui, and Walker, W.R., 2003. Optimal Water Management for Reservoir Based Irrigation Projects Using GIS. *J. Irrg. and Drainage Eng., ASCE*, **129(1)**: 1-10.
 9. **Md. Hazrat Ali**, Binoy Kumar Paul, and Ehsan Ahmed, 2006. Verification of Hydraulic Jump Performances for Various Glacises. *International J. of River Research Institute*, Bangladesh, **10(1)**: 15-24.
 10. **Md. Hazrat Ali**, Aysha Akter, Md. N. Uddin, and A.K.M.Q. Hasan, 2007. Impact of Karnafuli River Water on Human and Aquatic Lives. *Journal of Civil & Earthquake Engineering*, ISSN: 1996-9066, Chittagong Univ. of Eng. & Technology, Bangladesh, **01(01)**: 42-51.
 11. **Md. Hazrat Ali**, Debashis Chowdhury, Sapan Kumar Paul, and M.J. Alam, 2007. Water Loss in Chittagong City Corporation Area, Bangladesh. *Journal of Civil & Earthquake Engineering*, ISSN: 1996-9066, Chittagong Univ. of Eng. & Technology, Bangladesh, **01(01)**: 52-65.
 12. **Md. Hazrat Ali**, and Lee Teang Shui, 2009. Potential Evapotranspiration Model for Muda Irrigation Project, Malaysia. *J. Water Resources Management*, Springer, The Netherlands, ISSN: 0920-4741 (Print) 1573-1650 (Online), **23(1)**: 57-69.
 13. Aysha Akter and **Md. Hazrat Ali**, 2011. Arsenic Contamination in Groundwater and Its Proposed Remedial Measures. *Int. J. Environ. Sci. Tech.*, **8(2)**: 433-443.
 14. Aysha Akter and **Ali, Md. H.**, 2012. Environmental flow requirements assessment in the Halda River, Bangladesh. *Hydrological Sciences Journal*, ISSN: 0262-6667, **57(2)**: 326-343.
 15. **Md. Hazrat Ali**, M.R. Alam, M.N. Haque, and M.J. Alam, 2012. Comparison of Design and Analysis of Concrete Gravity Dam. *Natural Resources (NR)*, (<http://www.SciRP.org/journal/nr>), **3**: 18-28.
 16. Katimon, A., Shahid, S., Abd Wahab, A.K., and **Ali, M. H.**, 2013. Hydrological behaviour of a drained agricultural peat catchment in the tropics. Part 1: Rainfall, runoff and water table relationships. *Hydrological Sciences Journal*, **58(6)**: 1-13.
 17. **Md. Hazrat Ali**, A. Katimon, and B. Bhattacharya, 2016. Modeling Infiltration in a Large Scale Paddy Field in Malaysia. *Journal- The Institution of Engineers, Malaysia*, **77(2)**: 12-21.
 18. **Md. Hazrat Ali**, B. Bhattacharya, A. Katimon, 2018. Modelling Surface Runoff in a Large-Scale Paddy Field in Malaysia. *International Journal of Hydrology Science & Technology (IJHST)*, **8(1)**: 69-90.
 19. **Md. Hazrat Ali**, 2018. Reservoir Storage Simulation and Forecasting in the Context Climate Change in Muda Irrigation Scheme, Malaysia. *Under Process*.
 20. **Md. Hazrat Ali**, B. Bhattacharya, G.M.T Islam, A.K.M.S. Islam, M.S. Hossain and A.S. Khan, 2018. Challenges for Flood Risk Management in Flood Prone Sirajganj Region of Bangladesh. *Journal of Flood Risk Management*, **Accepted and in Press**.
 21. B. Roy, A.K.M.S. Islam, G.M.T Islam, B. Bhattacharya, **Md. Hazrat Ali**, A.S. Khan and M.S. Hossain, 2017. Establishing a New Danger Level for Flash Floods in the North east Haor Regions of Bangladesh to Reduce Risks of Crop Damage. Submitted to Natural Hazards Review.
 22. A.S. Khan, B. Bhattacharya, A.K.M.S. Islam, **Md. Hazrat Ali**, G.M.T Islam and M.S. Hossain, 2017. Tidal River Management (TRM) in South Western Region of Bangladesh. Submitted to ASCE, Under Review Process.

(b) Conference Paper

1. Lee Teang Shui, **Md. Hazrat Ali**, and Kwok Chee Yan, 1998. *Modeling Surface Runoff for Muda Irrigation Scheme, Kedah, Malaysia. Proceedings of the 7th JSPS-VCC Seminar in Integrated Engineering, Universiti Malaya, Malaysia, December 7-8, pp. 133-139.*
2. **Md. Hazrat Ali**, Lee Teang Shui, Kwok Chee Yan, Aziz F. Eloubaidy, and K.C. Foong, 1999. Modeling Water Balance Components and Irrigation Efficiency. Part I: Models Development. *Proceedings of the World Engineering Congress & Exhibition, Kuala Lumpur, Malaysia, July 19-22, pp. 127-133.*
3. **Md. Hazrat Ali**, Lee Teang Shui, Kwok Chee Yan, Aziz F. Eloubaidy, and K.C. Foong, 1999. Modeling Water Balance Components and Irrigation Efficiencies. Part II: Models Application. *Proceedings of the World Engineering Congress & Exhibition, Kuala Lumpur, Malaysia, July 19-22, pp. 135-140.*
4. **Md. Hazrat Ali**, Lee Teang Shui, Kwok Chee Yan, Aziz F. Eloubaidy, and K.C. Foong, 1999. Modeling Infiltration in Irrigation Project. *CD-ROM of the National Conference, Engineering Smart Farming for the Next Millennium, Universiti Putra Malaysia, Malaysia, March 14-16, pp. 1-8.*
5. Lee Teang Shui, **Md. Hazrat Ali**, Kwok Chee Yan, Aziz F. Eloubaidy, and K.C. Foong, 1999. Estimating Efficiencies in Irrigation Project. *CD-ROM of the National Conference, Engineering Smart Farming for the Next Millennium, Universiti Putra Malaysia, Malaysia, March 14-16, pp. 1-7.*
6. Lee Teang Shui, **Md. Hazrat Ali**, Kwok Chee Yan, Aziz F. Eloubaidy, and K.C. Foong, 1999. Estimating Conveyance Losses Using Muskingum-Cunge Method. *Paper presented to the National Conference on "Rivers '99: Towards Sustainable Development", Universiti Sains Malaysia, Malaysia, October 14-17, pp. 1-8.*
7. **Md. Hazrat Ali**, Lee Teang Shui, Ehsan Ahmed, and M.J. Alam, 2001. Conveyance Efficiency as a Function of Existing River Flow. *Proceedings of the 1st International Conference and Annual Paper Meet on Civil Engineering, IEB Chittagong Center, 2-3 November, pp. 411-417.*
8. M. Jahangir Alam, **Md. Hazrat Ali**, Ehsan Ahmed, and Ajoy Paul, 2001. Repair and Strengthening of the Existing RC Structural Elements for Future Earthquake. *Proceedings of the 1st International Conference and Annual Paper Meet on Civil Engineering, IEB Chittagong Center, 2-3 November, pp. 130-134.*
9. M. Jahangir Alam, **Md. Hazrat Ali**, Ehsan Ahmed, and Ajoy Paul, 2001. Guidelines on Seismic Structural Planning of RC Buildings. *Proceedings of the 1st International Conference and Annual Paper Meet on Civil Engineering, IEB Chittagong Center, 2-3 November, pp. 135-140.*
10. Ehsan Ahmed, Wan Hamidon Wan Badaruzzaman, **Md. Hazrat Ali**, and M.J. Alam, 2001. Finite Element Elastic Analysis of Profiled Steel Sheet Dry Board Folded Plate Structures. *Proceedings of the 1st International Conference and Annual Paper Meet on Civil Engineering, IEB Chittagong Center, 2-3 November, pp. 93-102.*
11. Ehsan Ahmed, Wan Hamidon Wan Badaruzzaman, M.J. Alam, and **Md. Hazrat Ali**, 2001. Two-Way Bending Behavior of Profiled Steel Sheet Dry Board Composite Panel System. *Proceedings of the 1st International Conference and Annual Paper Meet on Civil Engineering, IEB Chittagong Center, 2-3 November, pp. 123-129.*
12. **Md. Hazrat Ali** and Harumichi Kyotoh, 2001. Stability Investigation in the Alluvial River: Model Development. *Proceedings of the 1st International Conference and Annual Paper Meet on Civil Engineering, IEB Chittagong Center, 2-3 November, pp. 272-282.*



13. **Md. Hazrat Ali**, Sobri Harun and M.J. Alam, 2009. Design of High Concrete Gravity Dam and Its Stability Analyses for Varying Earthquake Intensities. *Proceedings of the International Conference on Water Resources (ICWR 2009)*, Langkawi, Kedah, Malaysia, May 26-27.
14. **Md. Hazrat Ali** and Sobri Harun, 2009. Climate Change Exploration in Muda Irrigation Scheme, Malaysia. *Proceedings of the International Conference on Water Resources (ICWR 2009)*, Langkawi, Kedah, Malaysia, May 26-27.
15. **Md. Hazrat Ali** and Sobri Harun, 2009. Comparing Holtan, Green-Ampt and SCS Infiltration Models to Estimate Infiltration in Muda Irrigation Scheme, Malaysia. *Proceedings of The 1st International Conference on Sustainable Infrastructure and Built Environment in Developing Countries (SIBE-2009)*, Sasana Budaya Ganesa-ITB, Jl. Tamansari, Bandung, Indonesia, November 2-3.
16. **Md. Hazrat Ali**, Aysha Akter and Sobri Harun, 2010. Assessing the Halda River Flow in the Contexts of Flood and Fish Habitat. *Proceedings of The 1st IWA Malaysia Young Water Professionals Conference (IWAYWP 2010)*, Best Western Premier Seri Pacific Hotel, Kuala Lumpur, Malaysia, March 02-04.
17. Joomizan Noordin, **Md. Hazrat Ali** and Sobri Harun, 2010. Reservoir Storage Simulation and Forecasting Models for Muda Irrigation Scheme, Malaysia. *Proceedings of The 1st IWA Malaysia Young Water Professionals Conference (IWAYWP 2010)*, Best Western Premier Seri Pacific Hotel, Kuala Lumpur, Malaysia, March 02-04.
18. **Md. Hazrat Ali**, Joomizan Noordin and Sobri Harun, 2010. Modeling Surface Runoff using ARNO, SCS, Green-Ampt and Philip Models. *Proceedings of the World Engineering Congress 2010*, Kuching, Sarawak, Malaysia, 2nd-5th August 2010.
19. M. M. Rahman, **Md. Hazrat Ali**, A. A. Saeem and S. Kar, 2016. Textile Waste-Water Effects on Karnafuli River. *Proceedings of the 3rd International Conference on Advances in Civil Engineering 2016 (ICACE 2016)*, Cox's Bazar, 21 –23 December 2016.
20. Md. Humayun Kabir, Md. Tofazzal Hossain, Md. Abul Khair, Md. Mehedy Hassan and **Md. Hazrat Ali**, 2016. Effective Water Distribution Network for CUET Campus. *Proceedings of the 3rd International Conference on Advances in Civil Engineering 2016 (ICACE 2016)*, Cox's Bazar, 21 –23 December 2016.

(c) Research Book Chapter

1. Aysha Akter and **Md. Hazrat Ali**, 2008. Review on Arsenic Contamination in Groundwater of Bangladesh and Proposed Remedial Measures, *Modeling Techniques of Rainfall and River Flow and Groundwater Contamination*, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Chapter 3, pp. 39-6.
2. **Md. Hazrat Ali**, 2008. Conveyance Efficiencies for Different Reservoir Releases With and Without Existing River Flow, *Modeling Techniques of Rainfall and River Flow and Groundwater Contamination*, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Chapter 6, pp. 107-117.

(d) Graduate & Postgraduate Theses

1. **Md. Hazrat Ali**, 1988. Study on Shear Strength for Varying Shear Span to Depth Ratio of Web-reinforced Concrete Beams. B.Sc. *Thesis submitted to the Department of Civil Engineering, Khulna University of Engineering & Technology*, Khulna, Bangladesh.
2. **Md. Hazrat Ali**, 1997. Stability Analysis of the Jamuna River. *M. Eng. Thesis submitted to*

the School of Civil Engineering, Asian Institute of Technology, Bangkok, Thailand.

3. **Md. Hazrat Ali**, 1999. Modeling Optimal Water Management for Reservoir Based Irrigation Project. *Ph. D. Thesis submitted to the Faculty of Engineering, University Putra Malaysia, Malaysia.*

Reviewer/Editor:

1. Reviewer, Journal of Water Resources Management, Springer, The Netherlands.
2. Invited Reviewer, ICE-Water Management, UK.
3. Invited Reviewer, Hydrological Sciences Journal.
4. Editor, Journal of Civil & Earthquake Engineering, Dept. of Civil Eng., CUET, Bangladesh.
5. Editorial Board Member, "The Open Hydrology Journal" Bentham Open Publisher.
6. Editorial Committee Member, Malaysian Journal of Civil Engineering (MJCE), Faculty of Civil Engineering, Universiti Teknologi Malaysia.
7. Reviewer, International Journal of Engineering and Technology (IJET) ISSN: 1812-7711, G-Science Implementation & Publication, Dhaka 1215, Bangladesh.
8. Invited Reviewer, Journal of Hydroinformatics, IWA.
9. Invited Reviewer, KSCE.
10. Editors, Research Book Chapters: (1) Modeling Techniques of Rainfall and River Flow and Groundwater Contamination, and (2) Stochastic Methods in Design Storm Estimations, Faculty of Civil Engineering, Universiti Teknologi Malaysia.
11. Technical Committee Member, International Conference on Water Resources (ICWR 2009), Langkawi, Malaysia.
12. Editor, 1st International Conference on Advances in Civil Engineering, Dept. of CE, CUET, Bangladesh.
13. Chairman, 1st International Conference on Advances in Civil Engineering (ICACE 2012), Dept. of Civil Eng., CUET

Names and Addresses of Referees:

Prof. Dr. M. J. Alam

Former Vice Chancellor &
Professor (Civil)
Chittagong Univ. of Eng. &
Technology (CUET)
Chittagong-4349
BANGLADESH
Email:

mjalam1232003@yahoo.com

Tel: +8801819310642

Prof. Dr. Sobri Harun

Dept. of Hydraulics &
Hydrology
Faculty of Civil Engineering
Univ. Technology Malaysia
Malaysia
Email: sobriharun@utm.my

Prof. Dr. Harumichi Kyotoh

Faculty of Engineering
Information and Systems
University of Tsukuba
Japan
Email:

kyotoh@kz.tsukuba.ac.jp