

LIST OF PUBLICATIONS:

Md. Mafizur Rahman (Ph.D.)

Professor

Department Of Civil Engineering

Bangladesh University Of Engineering And Technology (Buet)

Dhaka-1000, Bangladesh

THESES:

Ph.D. (Engg.) Thesis: Reliability Analysis For The Planning Of Flood Control And
Environmental Conservation

M.Sc. (Engg.) Thesis: Study Of A Family Size Solar Desalination Plant For The Coastal
Region Of Bangladesh

B.Sc. (Engg.) Thesis: Computer Based Analysis Of Helicoidal Staircase Using The Finite
Element Method

PUBLICATIONS IN PEER REVIEWED AND REFEREED JOURNALS

1. Karim S., Malik Fida A.Khan, **Md. Mafizur Rahman** (2009) Impacts Of Climate Change On Agricultural Water Demand, Aiub Journal Of Science And Engineering (AJSE), Vol 8, No.1, August, 2009.
2. Yoshiaki Tsuzuki, Faruque Ahmed And **Md. Mafizur Rahman** (2009) Some Considerations On Water Management In Urban And Peri-Urban Areas Of Dhaka City, Bangladesh, And Possibility Of Environmental Education On Water Environment, Environmental Science , Society Of Environmental Science, Japan, Vol. 22, No. 2, Pp: 91-102 (Technical Note),ISSN: 0915-0048.
3. Yoshiaki Tsuzuki, Faruque Ahmed, **Md. Mafizur Rahman** (2009) Water Quality Measurement With A Water Quality Measurement Kit And A Data Logger In Urban And Peri-Urban Areas Of Dhaka, Bangladesh, And Possibility Of Environmental Education On Water Environment, Environmental Science, Japan Society Of Environmental Science. (In Press)

4. Tsuzuki, Y., Koottatep, T. And **Rahman, M.M** (2009) Water Quality Profiles Of The Tidal Rivers And Canal In Peri-Urban Areas Of Bangkok, Thailand, And Dhaka, Bangladesh, Focusing On The Water Quality Transition In Coastal Areas, Journal Of Japan Society On Water Environment, Vol. 32, No.1, Pp.47-52. (Survey Report) (In Japanese With English Abstract)
5. Tsuzuki, Y., Koottatep, T., **Rahman, M.M.** And Ahmed, F. (2008) Water Quality In The Ambient Water And Domestic Wastewater Pollutant Discharges In The Developing Countries: Possibility Of Combined Johkasou Exports, Joukasou Kenkyu (Journal Of Domestic Wastewater Treatment Research) (Survey Report), Vol.20, No.1, Pp.1-13. (In Japanese With English Abstract)
6. Tsuzuki, Y., Koottatep, T., Ahmed, F. And **Rahman, M.M.** (2008) Water Quality And Pollutant Load In The Ambient Water And Domestic Wastewater Pollutant Discharges In The Developing Countries: Survey Results In Autumn And Winter In 2006, Journal Of Global Environment Engineering (Note), Vol.13, Pp.121-133.
7. **Rahman, M.M.**, Afreen. S., And Hussain M.A. (2008) Potential Of Rainwater Harvesting In Dhaka City, Asian Journal Of Water Environment And Pollution (Submitted).
8. **Rahman M.M.**, Tonmoy F.N. (2008) Impact Of Ground Water Depth On Arsenic And Iron Correlation In Bangladesh: GIS Approach, International Journal Of Environment And Pollution (IJEP) (Accepted).
9. **Rahman. M.M.**, Tonmoy F.N. (2008) Gis Mapping Of Correlation Between Arsenic And Iron Concentration Of Groundwater Of Bangladesh, Asian Journal Of Water, Environment And Pollution, Ios Press, Nieuwe Hemweg 6b, 1013 BG Amsterdam, The Netherlands (Submitted)
10. Islam, Akm, Bala, S.; Hussain, M., Hossain, M.; **Rahman, M.M.** (2008) Performance Of The Coastal Structures During Cyclone Sidr, Disasters: The Journal Of Disaster Studies, Policy And Management (Submitted)
11. **Rahman, M.M.**, Kitawaki, H., Wang, B., Tsuzuki.Y. (2008) Arsenic Removal Monitoring From Groundwater In A Village In Bangladesh Using Guava Method, Journal Of Global Environment Engineering, Japanese Society Of Civil Engineering (Submitted)
12. Ahmed N., **Rahman M.M.**, Welch A.H.,Clark D.W.(2008) GIS Based Delineation Of Water Quality Of Deep Aquifer Zones For Safe Drinking Purpose; A Case Study Of Kachua Upazila, Chandpur District , Asian Journal Of Geoinformatics (Accepted)

13. Ahmed Ishtiaque Amin Chowdhury, **M. M. Rahman**, (2008) Correlation Of The Co-Occurrence Of Arsenic And Iron In Groundwater Of Bangladesh, International Journal Of Applied Environmental Sciences, Issn 0973-6077 Volume 3 Number 2 (2008) pp. 119–124, Research India Publications.
14. Yoshiaki Tsuzuki, Thammarat Koottatep, **Md Mafizur Rahman** (2007): Vertical Water Quality Characteristics In The Rivers Around Bangkok (Thailand) And Dhaka (Bangladesh), Journal Of Japan Society On Water Environment (Submitted) (In Japanese With English Abstract)
15. Yoshiaki Tsuzuki, Faruque Ahmed, **Md Mafizur Rahman** (2007) Water Quality Environments Monitored With A Water Quality Measurement Kit And A Water Quality Data Logger In Urban And Peri-Urban Areas Of Dhaka City, Bangladesh, Journal Of Environmental Management (Submitted)
16. Yoshiaki Tsuzuki, Thammarat Koottatep, **Md Mafizur Rahman**, Faruque Ahmed (2007) Pollutant Discharges From Domestic Wastewater And Pollutant Loads In The Rivers In The Developing Countries: Fields Survey And Data Collection In 2006, Journal Of Small Domestic Wastewater Treatment Research (Johkasou Kenkyu In Japanese) (Submitted) (In Japanese With English Abstract)
17. Wang B., Kitawaki H., **Rahman M.M.** (2007) A Study On Arsenic Removal Monitoring From Groundwater In Bangladesh Using Guava Method, Environmental Engineering Research, Vol 44, Pp. 407-416.
18. **M. M. Rahman** (2006) Computer Modelling Of Rainwater Harvesting System, Water Science and Technology: Water Supply, International Water Association (IWA).
19. Khan F.H., **Rahman M.M.**, Islam G.M.T. (2006) Erosion And Non Point Source Pollution Modeling Of Tarapur Using Geo-Informatics, Oriental Geographer (Accepted And Ready For Publication)
20. **Rahman M.M.**, Islam R.U. (2006) Environmental Impact Assessment Of Introducing Subway In Dhaka City, Journal Of Environmental Assessment Policy And Management (JEAPM) (Sumitted, In Review)
21. M. F. K. Pasha, A. Nishat, **M. Rahman** (2005) Chaos In The Ganges Runoff, Journal Of Civil Engineering (IEB), 33(1) (2005) Page 1-7.
22. Sarkar M.S.K.A, **Rahman M.M.** (2005) Water Supply And Sanitation Condition Of Slum Areas In Dhaka City, Asian Journal Of Water, Environment And Pollution, Publisher Ios Press Issn: 0972-9860, Issue Volume 5, Number 1 / **2008**, Pages 13-15

23. Oh, J-I., Yamamoto, K., Kitawaki, H., Nakao, T., Sugawara, **Rahman, M.M.** And Rahman, M.H.(2000) Application Of Low Pressure Nanofiltration Coupled With A Bicycle Pump For Treatment Of Arsenic-Contaminated Ground Water, Desalination, The International Journal Of The Science And Technology Of Desalting And Water Purification, 132, Pp. 307-314.
24. Oh, J-I., Urase, T., Kitawaki, H., **Rahman, M.M.**, Rahman, M.H. And Yamamoto, K.(2000) Modeling Of Arsenic Rejection Considering Affinity And Steric Hindrance Effect In Nanofiltration Membranes, Water Science And Technology , Vol 42, Nos 3-4, Pp 173-180.
25. Mamtaz R., Rahman M. H., **M. M. Rahman** (1996) Solar Desalination Plants For Drinking Water Supply In Bangladesh, Journal Of Indian Association For Environmental Management, Vol 23, No. 2.
26. Tamai, N., **Rahman, M. M.**, And Matsuzaki, H. (1996), River Bed Level Variation In Kinu River And Its Effect On Safety Margin, Annual J. Hydr. Engrg., Vol 40.
27. **Rahman, M. M.**, And Tamai, N. (1996). Effect Of Bed River Profile Uncertainty On Safety Margin. Annual Conference, JSCE, Nagoya.

INTERNATIONAL CONFERENCES, SYMPOSIA, WORKSHOPS,

PROCEEDINGS AND PRESENTATIONS

1. **Md. Mafizur Rahman**, Kazi Shamima Akter (2010) Changing Pattern of Meteorological Dryness as Climate Change Impact in Bangladesh 17th Congress of the Asia and Pacific Division of the International Association of Hydraulic Engineering and Research (IAHR-APD 2010), to be held in Auckland (New Zealand), 21-24 February 2010 (Abstract Submitted).
2. Islam M.S., **Rahman M.M.**, Pervin L. (2009) Estimation of Ground water recharge for a densely populated urban area of Bangladesh considering climate change, 8th International Conference on Urban Drainage Modeling jointly with the second international conference on Rainwater Harvesting and management, 7-11 September 2009, Tokyo, Japan (Abstract Accepted)
3. Anjuman Shahriar, **Md. Mafizur Rahman**, Moncef Nehdi (2009) Optimal Bridge Management Planning Using System Approach, Sixth International Conference On Bridge, Design, Construction And Maintenance, 10-12 November 2009, New Delhi, India. (Submitted)

4. **Md. Mafizur Rahman**, Anjuman Shahriar, M. Shahria Alam (2009) Modeling Ground Water Recharge Potential And Consequences, The 7th International Conference On Calibration And Reliability In Groundwater Modeling, Managing Groundwater And The Environment, Wuhan, China, September 20-23, 2009 (Submitted)
5. Anjuman Shahriar, **Md. Mafizur Rahman**, M. Shahria Alam (2009) Assessing Limiting Ground Water Extraction For Agriculture Sector In Bangladesh, The 7th International Conference On Calibration And Reliability In Groundwater Modeling, Managing Groundwater And The Environment, Wuhan, China, September 20-23, 2009 (Submitted)
6. **Md. Mafizur Rahman**, Sazia Afreen And Md. Asad Hussain (2009) Adaptation To Climate Change Impacts Through Rain Water Harvesting In Bangladesh, International Conference On Water And Flood Management (ICWFM 2009), BUET, Dhaka, 15-17 March 2009.
7. **Md. Mafizur Rahman**, Kazi Shamima Akter (2009) Changes In Dryness Pattern And Drought Occurrence In Bangladesh, International Conference On Climate Change Impacts And Adaptation Strategies For Bangladesh, BUET, 18-20 Feb, 2009.
8. Afroze N., **Rahman M.M.** (2008) Application Of Gis For Health Monitoring Impact Of Arsenic On Human Health In Dhaka Division, Proceedings Of The 4th BSME-ASME International Conference On Thermal Engineering, 27-29 December, 2008, Dhaka, Bangladesh.
9. **Rahman M.M.**, Rahman S.F. (2008) Concepts Of Integrated Water Resources Management In Dhaka, **Presentation**, Bangladesh Water Security Workshop, 29-30th November, 2008, Kyoto, Japan.
10. **Rahman M.M.**, Akter K. S. (2008) Assessing Drought Scenario In Bangladesh, 4th Conference Of The Asia Pacific Association Of Hydrology And Water Resources, Special Session Of The Asian Water Cycle Initiative, November 3-5, Beijing, China
11. Shahriar Quayyum, Syeda Farhana Rahman, **Md. Mafizur Rahman** (2008) Water Resources And Sustainability Issues In Bangladesh, 6th International Symposium On Southeast Asian Water Environment, October 29-31, 2008, Bandung, Indonesia.
12. **Rahman M.M.**, Sazia A. And M. A. Hussain (2008) Contribution Of Rainwater In Meeting Crop Water Requirement In Context Of Climate Change Impacts, **Plenary Paper**, Second International Symposium On Food And Water Sustainability In Asia 2008, October 7-9, 2008, Macau, China.
13. **Rahman, M.M.**, Afreen. S., And Hussain M.A. (2008) Climate Change Impacts On Rain Water Harvesting Potential In Bangladesh, Third Rainwater Harvesting Workshop,

- IWA World Water Congress And Exhibition In Austria Center, Vienna 7th September 2008,
14. **Rahman M.M.** (2008) Water Related Issues In Cities Of Bangladesh, **Guest Speaker**, Center For Spatial Information Science, University Of Tokyo, Japan, 24th July, 2008.
 15. **Rahman M.M.** (2008) Climate Change, Impacts, Ongoing Research And Adaptation Policy For Bangladesh, **Presentation**, Seminar On Capacity Building On Climate Change And Adaptation In Bangladesh, August 7th, 2008, SMRC, Dhaka, Bangladesh,.
 16. **Rahman M.M.** (2008) Sustainable Water Supply In Dhaka City: Present And Future, **Special Lecture**, Urban Engineering Department, Presentation Sponsored By JICA Fund, 15th July, 2008, Hongo Campus, The University of Tokyo, Japan.
 17. **Rahman M.M.** (2008) Water Supply Status In Dhaka City, **Invited Speaker**, Ritsumeikan University, Kyoto, Japan, 5th July, 2008.
 18. **Rahman M.M.** (2008) Water Supply In The Urban Areas Of Developing Countries, **Presentation**, Tsukuba University, Ibaraki, Japan, 24th June, 2008.
 19. **Rahman M.M.** (2008) Climate Change: Impacts And Adaptation Policy For Bangladesh, **Country Presentation**, 2nd Geoss Asia-Pacific Symposium On The Role Of Earth Observations In Tackling Climate Change Tokyo, Japan, 14-16 April 2008.
 20. **Rahman M.M.**, Fida. M.M., Akter J (2008) Survey For Identification Of Flood Damage Functions To Assess The Impacts Of Changes In Hydro-Biogeochemical Processes In Coastal Area Of Bangladesh, Presentation, **Presentation**, Brainstorming Workshop Of The Apn Project Climate Perturbation And Coastal Zone Systems In Asia Pacific Region: Holistic Approaches And Tools For Vulnerability Assessment And Sustainable Management Strategy, Hanoi, Vietnam, 27-28 March, 2008.
 21. **Rahman M.M.**, Fida. M.M., Akter J (2008) Gorai River Restoration Pilo Project And Its Impacts, **Presentation**, Brainstorming Workshop Of The APN Project - Climate Perturbation And Coastal Zone Systems In Asia Pacific Region: Holistic Approaches And Tools For Vulnerability Assessment And Sustainable Management Strategy, Hanoi, Vietnam, 27-28 March, 2008.
 22. S.Quayyum, **M.M.Rahman** , M. Mohsin (2008) Sustainable Water Supply In Dhaka City: Present And Future, Asian Science And Technology Seminar,Thailand, March 10 And 11, 2008 (Invited Speaker Of The Japan Science And Technology Agency).
 23. Islam,M.S., **Rahman,M.M**, Kabir, M.A. (2007) Application Of Remote Sensing And Gis Techniques In Water Induced Disaster Management: A Case Study Of Bangladesh, 6th International Symposium On New Technologies For Urban Safety Of Mega Cities In Asia, Held During 9-10 December, 2007, Dhaka, Bangladesh.

24. **Rahman, M.M.**, Shahriar, Q. (2007) Sustainable Water Supply In Dhaka City: Present And Future, Invited Paper At The 2nd International Workshop On Rainwater And Reclaimed Wastewater For Urban Sustainable Water Use (3-5 October, 2007), Kyoto, Japan.
25. **Rahman, M.M.** (2007) Computer Modeling Of Rainwater Harvesting System, Poster Presentation At 2nd International Workshop On Rainwater And Reclaimed Wastewater For Urban Sustainable Water Use (3-5 October, 2007), Kyoto, Japan.
26. **Rahman, M.M.** (2007) Integrated Approaches And Tools For Vulnerability Assessment And Sustainable Management Strategy For Coastal Zone Of Bangladesh, Presentation At Planning Workshop Of The Apn Project Titled Climate Perturbation And Coastal Zone Systems In Asia Pacific Region: Holistic Approaches And Tools For Vulnerability Assessment And Sustainable Management Strategy Held In Bangkok, Thailand During 27-28 September 2007.
27. Tsuzuki, Y., Koottatep, T., **Rahman, M.M.** (2007) Pollutant Discharge And Pollutant Load In The Tidal Area Of The Rivers In Developing Countries: Survey Results In The Autumn And Winter In 2006 And Desirable Direction For Water Quality Improvement, Proceedings Of 15 Global Environment Symposium, Japan Society Of Civil Engineers, 2-3 Aug 2007, Kochi, Japan, 95-100.
28. Shahriar, Q., **Rahman, M.M.** (2007) An Overview Of Arsenic Scenario And Mitigation Initiatives In Bangladesh, Panel Speech In The Water Resources Session At The 7th Science Council Of Asia (Sca) Conference Held During June 14-16, 2007, At Okinawa Convention Center, Ginowan-City, Okinawa, Japan, Organized By The Science Council Of Japan (SCJ).
29. Tsuzuki, Yoshiaki; Koottatep, Thammarat, **Rahman, Md Mafizur**, Ahmed, Faruque (2007) Preliminary Study On Pollutant Discharge From Domestic Wastewater And Pollutant Load In The River: A Comparative Study Between Japan, Thailand And Bangladesh, International Forum On Water Environmental Governance In Asia, 14-15 March 2007, Bangkok, Thailand.
30. **M.M. Rahman**,_Mohammad Ali, Ahmed Ishtiaque Amin Chowdhury (2006) Use Of GIS For Logistics Management And Spatial Planning For Solid Waste Management: A Case Study For Dhaka City Corporation, 8th Asian Academic Network For Environmental Safety And Waste Management (AANESWM), Organized By Department Of Chemistry And Centre With Potential For Excellence In Environmental Science, Anna University, Chennai (Madras), India, December 10-13, 2006.
31. **M.M. Rahman**, Jahra F. (2006) Scenario Of Hospital Waste Management In Dhaka City, 8th Asian Academic Network For Environmental Safety And Waste Management

- (AANESWM), Organized By Department Of Chemistry And Centre With Potential For Excellence In Environmental Science, Anna University, Chennai (Madras), India, December 10-13, 2006.
32. **Rahman M.M.**, Chowdhury A.I.A, Zillur R. (2006) Implementation Of Arsenic Removal Technologies In Bangladesh- Challenges For NGOs, The Third International Symposium On Southeast Asian Water Environment, December 6-8,2006, Bangkok, Thailand.
 33. **Rahman M.M.**, Jahra F. (2006) Challenges For Implementation Of Rain Water Harvesting Project In Arsenic Affected Areas Of Bangladesh, International Symposium On - Community Activities For The Conservation Of Water Environment, 8 December 2006, Bangkok, Organized By The Water Environment Partnership In Asia (WEPA)
 34. **Rahman M.M.**, Jahra F. (2006) Social Aspects Of Rainwater Harvesting System, International Symposium On - Community Activities For The Conservation Of Water Environment, 8 December 2006, Bangkok, Organized By The Water Environment Partnership In Asia (WEPA).
 35. **Rahman M. M.**, Rahman A.H.M. K. (2006) Geoinformatics For Environmental Management Of Residential Areas In Dhaka, 5th International Symposium On New Technology For Urban Safety Of Mega Cities In Asia (USMCA 2006), 16-17 November, 2006, Phuket, Thailand
 36. S.Islam, **Rahman M.M.**, Kulapramote P. (2006) Application Of Remote Sensing And Gis Techniques In Water Induced Disaster Management : A Case Study Of Bangladesh, 5th International Symposium On New Technology For Urban Safety Of Mega Cities In Asia (USMCA 2006), 16-17 November, 2006, Phuket, Thailand
 37. Ali M. L., **Rahman M. M.** (2005) Hazards (Flooding And Drainage) In The Coastal Zone Of Bangladesh, , International Symposium On Floods In Coastal Cities Under Climate Change Conditions, Asian Institute Of Technology (AIT), 23-25 June 2005, Organized By Asia-Pacific Network For Global Change Research (APN), Bangkok. Thailand.
 38. Hidetoshi Kitawaki, **Md. Mafizur Rahman** And Md. Jahangir Alam, (2005) Monitoring Of Arsenic Removal Using Guava Leave –Development Of Analytical Method Using Locally Available Material, International Workshop On Water Management Systems For Creating Healthy Environment, January 21, 2005, 2005, Pp-74-79, Tokyo.
 39. **M. M. Rahman**, M. H. Rashid, M. N. Bari (2004) Characteristics Of Solid Waste Of Dhaka City, The 19th International Conference On Solid Waste Technology And Management Philadelphia, Pa, U.S.A., March 21 - 24, 2004.

40. **M. M. Rahman**, M. H. Rashid, M. N. Bari (2004) Existing Solid Waste Management Practice Of Dhaka City, The 19th International Conference On Solid Waste Technology And Management Philadelphia, Pa, U.S.A., March 21 - 24, 2004.
41. Kitawaki H., **Rahman M. M.**, Jahangir M. A. (2004) Monitoring Of Arsenic Removal Using Guava Leaves -Development Of Analytical Method Using Locally Available Material, International Symposium On Environmental Management (ISEM 2004), Bangladesh University Of Engineering And Technology, Dhaka, 7 – 8 January 2004.
42. **Md. Mafizur Rahman**, Probir Das, Muhammad Mostafijur Rahman, (2003) Optimum Water Solution In Mega City Dhaka, Second International Symposium On New Technologies For Urban Safety Of Mega Cities In Asia, October 30-31, 2003, The University Of Tokyo, Tokyo, Japan.
43. **Md. Mafizur Rahman**, Mohammad Jahangir Alam, (2003) Mega City Dhaka: Growing With Sanitation Problems, Second International Symposium On New Technologies For Urban Safety Of Mega Cities In Asia, October 30-31, 2003, The University Of Tokyo, Tokyo, Japan.
44. **Md. Mafizur Rahman**, Md. Habibul Huq, (2003) A Study On Hospital Waste Management In Dhaka City, Second International Conference And Annual Paper Meet Of The Civil Engineering Division, IEB, 17-18 July, 2003, Dhaka, Bangladesh .
45. Nehreen Majed, **Md. Mafizur Rahman**, (2003) Urban Environment: Noise Pollution In Dhaka City, Second International Conference And Annual Paper Meet Of The Civil Engineering Division, IEB, 17-18 July, 2003, Dhaka, Bangladesh .
46. Nehreen Majed, **Md. Mafizur Rahman**, (2003) Observation Of Lake Water Conditions In Dhaka City, Second International Conference And Annual Paper Meet Of The Civil Engineering Division, IEB, 17-18 July, 2003, Dhaka, Bangladesh.
47. Nehreen Majed, **Md. Mafizur Rahman**, (2003) Evaluation Of The Physical Conditions Of Lakes In Dhaka, Second International Conference And Annual Paper Meet Of The Civil Engineering Division, IEB, 17-18 July, 2003, Dhaka, Bangladesh .
48. **Md. Mafizur Rahman**, Riyad-Ul-Isam, (2003) Environmental Impact Assesment Of Introducing Subway In Dhaka, Second International Conference And Annual Paper Meet Of The Civil Engineering Division, IEB, 17-18 July, 2003, Dhaka, Bangladesh .
49. **Md. Mafizur Rahman**, U.K Saha, (2003) Barrel Type Composting An Innovative Approach For Cost Effective And Sustainable Solid Waste Management Experience From Sylhet Partnership, Second International Conference And Annual Paper Meet Of The Civil Engineering Division, IEB, 17-18 July, 2003, Dhaka, Bangladesh .
50. **Md. Mafizur Rahman**, U.K Saha, (2003) Community Based Solid Waste Management Experience From Pilot Project Of Sylhet, Second International Conference And Annual

- Paper Meet Of The Civil Engineering Division, IEB, 17-18 July, 2003, Dhaka, Bangladesh .
51. **Md. Mafizur Rahman**, U.K Saha, (2003) Community Based Solid Waste Management Experience From Sylhet Partnership, 18th International Conference On Solid Waste Technology And Management, March 23 - 26, 2003, Philadelphia, PA, U.S.A.
 52. Wang Bo, Kitawaki H., **Rahman M. M.** (2003), The Problem Of Arsenic Contamination And Monitoring Of Arsenic Removal By Appropriate Technology In Bangladesh, Proceedings Of The 7th Spring Study Meeting The Japan Society For International Development, Pg 143 ~146, Executive Committee For The 7th Spring Study Meeting The Japan Society For International Development. Graduate School Of East Asian Studies (GSEAS) & Faculty Of Economics, Yamaguchi University, Yamaguchi, Japan
 53. Nehreen Majed, **Md. Mafizur Rahman**, (2002) Urban Environment Health Hazard : Dengue, International Conference On Bangladesh Environment–2002, IC BEN-2002, 19-21 December, 2002, Dhaka, Bangladesh.
 54. Nehreen Majed, **Md. Mafizur Rahman**, (2002) Observation And Analysis Of Lake Water Conditions In Dhaka City, International Conference On Bangladesh Environment–2002, IC BEN-2002, 19-21 December, 2002, Dhaka, Bangladesh.
 55. Md. Mujibur Rahman, **Md. Mafizur Rahman**, Md. Delwar Hossain, (2002) Assessment Of Water Quality In Flood Affected Areas Of Dhaka City, Engineering Concerns Of Flood, P: 35-48, Editors: M. Ashraf Ali, Salek M. Seraj, Sohrabuddin Ahmad, Bangladesh University Of Engineering And Technology, Dhaka, Bangladesh, August 2002, ISBN 984-823-002-5.
 56. **Rahman M. M.**, Fahimuddin A. K. M. (2002) Forecasting Ground Water Depletion In Dhaka City : Use Of Artificial Neural Network, The 15th Engineering Mechanics Division Conference Of The American Society Of Civil Engineers At Columbia University In The City Of New York New York, NY, June 2-5, 2002.
 57. Kazi Parvez Fattah, **M. Mafizur Rahman**, Farah Laj Chowdhury, Transportation Of Arsenic In Groundwater: Particle Tracking Method, The 27th Hydrology And Water Resources Symposium, 20-23 May, 2002, Melbourne, Australia.
 58. **Rahman Md. Mafizur**, Atisha Ambarin, (2002) Water Consumer Behaviour Pattern In Urban Areas Of Bangladesh, The 27th Hydrology And Water Resources Symposium, 20-23 May, 2002, Melbourne, Australia.
 59. M. Habibur Rahman, **M. Mafizur Rahman**, Chiho Watanabe, Kazuo Yamamoto, (2002) Arsenic Contamination Of Groundwater In Bangladesh And Its Remedial Measures, International Workshop On Arsenic Pollution And Health, National Institute For Environmental Studies (NIES), Tokyo, Japan, February, 2002.

60. **Rahman Md. Mafizur**, Mullick Md. Reaz Akter, Rahman Md. Habibur,(2001) Arsenic Removal By Nanofilter Technology For The Rural Areas Of Bangladesh, 4th International Conference On Mechanical Engineering (ICME2001), 26-28 December, 2001, Dhaka, Bangladesh.
61. M. H. Rahman, **M. M. Rahman**, (2001) Environmental Issues In Bangladesh - Infrastructure, Water Resources And Agriculture, 4th International Conference On Mechanical Engineering (ICME2001), 26-28 December, 2001, Dhaka, Bangladesh.
62. **Rahman M. M.**, Fahimuddin A. K. M. (2001), Artificial Neural Network For Forecasting Ground Water Depletion In Dhaka, International Symposium On Lucc (Land Use And Land Cover Change) Contribution To Asian Environmental Problems, Dec.13-14, Tokyo, Japan.
63. **Rahman M. M.**(2001) Water Quality In Flood Shelters Of Dhaka City, Brunei International Conference On Engineering And Technology, 9 – 11 October, 2001, Institut Teknologi Brunei.
64. Fahimuddin A. K. M., **Rahman M.M.**, (2001) Determination Of Air Pollution Parameters Using Artificial Neural Networks(Anns), First International Conference And Annual Paper Meet Of The Civil Engineering Division, Institute Of Engineers, Bangladesh, October 3-5, 2001, Chittagong, Bangladesh.
65. Fahimuddin A. K. M., **Rahman M.M**, (2001) Mobility & Sustainability Of 21st Century Travel, First International Conference And Annual Paper Meet Of The Civil Engineering Division, Institute Of Engineers, Bangladesh, October 3-5, 2001, Chittagong, Bangladesh.
66. Kazi Parvez Fattah And **M. Mafizur Rahman**, (2001) Mathematical Modeling For Mobilization Of Pollutants In Groundwater, First International Conference And Annual Paper Meet Of The Civil Engineering Division, Institute Of Engineers, Bangladesh, October 3-5, 2001, Chittagong, Bangladesh.
67. **Rahman M. Mafizur**, Uttam Kumar Saha, (2001) Environmental Impact Assessment And Development Of Environmental Strategy For Small And Medium Industries In Bangladesh, First International Conference And Annual Paper Meet Of The Civil Engineering Division, Institute Of Engineers, Bangladesh, October 3-5, 2001, Chittagong, Bangladesh.
68. **Rahman Md. Mafizur**, Hossain M. Delwar, Rahman M. Mujibur (2001) Assessment Of Water Quality In Affected Areas Of Dhaka City, World Water And Environmental Resources Congress, May 20-24, 2001, Orlando, Florida, USA.
69. **Rahman M.M.**(2001) Outcomes Of The Joint Research Project On Alternates Of Arsenic Removal Technologies, **Presentation** In The Annual General Meeting Of

- Alliance Of Global Sustainability (Ags), January, 2001, Swiss Federal Institute Of Environmental Science And Technology, Lausanne, Switzerland.
70. **Rahman M. M.** (2000) Importance Of Reliability Based Design Of Rainwater Harvesting Systems In Bangladesh, **Presentation**, Techtransfer 2000: Bangladesh, 22 – 24 December, 2000, BUET, Dhaka.
 71. **Rahman M.M.**, Ali M.A., Badruzzaman A.B.M., Hossain M. D., Rahman M.M. (2000) Characterization Of Solid Waste And Assessment Of Municipal Solid Waste Management In Dhaka City, Sixteenth International Conference On Solid Waste Technology And Management, December 10-13, 2000, Widener University, Chester, USA.
 72. **Rahman M.M.** (2000) Reliability Based River Planning In Natural Channels, 3rd International Hydrology And Water Resources Symposium, 20-23 November, 2000, Perth, Australia.
 73. Oh, J-I., Yamamoto, K., Kitawaki, H., Nakano, S., **Rahman, M.M.** ,Rahman, M.H.(2000) Application Of Low Pressure Nanofiltration Coupled With A Bicycle-Pumping Device To Treatment Of Arsenic Contaminated Ground Water, International Conference On Membrane In Drinking And Industrial Water Production, Paris, October 2000.
 74. **Rahman M.M.** (2000), Simple Approach For Flood Forecasting, Asce 2000 Joint Conference In Water Resources Engineering And Water Resources Planning And Management, July 30 – August 2, 2000, Minneapolis, Minnesota, USA.
 75. **Rahman M.M.**, Yusuf F-U-A.M. (2000) Rainwater Harvesting And Reliability Concept, Eighth Asce Joint Specialty Conference On Probability Mechanics And Structural Reliability, July 24-26, 2000, Notre Dame, Indiana, USA.
 76. **Rahman M.M.** (2000) Failure Of Channels During Flood-Reliability Approach, Fourteenth Engineering Mechanics Conference Of The Asce, May 21-24, 2000, University Of Texas At Austin, USA.
 77. **Rahman Md. Mafizur**, Khan M. M. Taimur, Rahman M. Habibur (2000) Hospital Waste And Community Safety, The 9th International Conference On Safe Communities (Safe Comm 9) February 26-28, 2000, Dhaka, Bangladesh.
 78. **Rahman M.** (2000) Design Issues In Rainwater Harvesting System, **Keynote Speaker** In The Rainwater Harvesting Meeting Organized By World Health Organization, ITN Center, Dhaka, 24 February, 2000.
 79. **Rahman M.M.** (2000) Rainwater Utilization In Bangladesh, **Keynote Paper** At National Seminar Chaired By Dr. Kh. Azharul Huq The Managing Director,Dhaka Wasa, 22 February, 2000, IEB Dhaka Center, Dhaka.

80. **Rahman M.M.** (2000) Changes And Ongoing Activities Of Arsenic Contamination In The Ground Water Of Bangladesh, **Presentation** In The Annual General Meeting Of Alliance Of Global Sustainability (AGS), January, 2000, Massachusetts Institute Of Technology (MIT), USA.
81. **Md. Mafizur Rahman**, Hasin Jahan (2000) Community Watsan Projects In The Philippines, International Training Network- Bangladesh, Newsletter, Issue No 12, January, 2000.
82. Swartz C.H., N. Keon, A.B. Badruzzaman, M.A. Ali, D.J. Brabander, W. Yu, S. Islam, **M. M. Rahman**, S. Hug, W. Aeschbach-Hertig, M. Mustafa, M. Polz, L. Kuai, H.F. Hemond And C.F. Harvey, The Arsenic Crisis In Bangladesh: A Geochemical Analysis. American Geophysical Union, Fall Meeting, San Francisco. Eos 81 (Suppl.): F550-551, 2000.
83. **Rahman M. Mafizur** (1999) Flood Protection - Detecting The Failure Point Of A Natural Channel, Ait 40th Year Anniversary-Civil & Environmental Engineering Conference- New Frontiers & Challenges, 8-12 November 1999, AIT, Bangkok, Thailand.
84. J.I.Oh, H. Kitawaki, **M.M. Rahman**, M.H. Rahman, K. Yamamoto (1999), Modeling Of Arsenic Rejection Considering Affinity And Steric Hindrance Effect In Nanofilter Membranes, 7th Iawq Asia Pacific Regional Conference, Taipei, Taiwan, 18-20 October 1999.
85. **Rahman M. Mafizur**, Khan Md. Sabbir Mostafa, Pasha Md. Fayzul Kabir (1999) Long Term Flood Forecasting In The Ganges – A Simplified Approach, International Water Resources Engineering Conference 1999, ASCE, (August 8-11 1999) Seattle, Washington , Usa.
86. **Md. Mafizur Rahman**, M Ashraf Ali, A.B.M. Badruzzaman, Dr. Md. Delwar Hossain, Dr. Md. Mujibur Rahman (1999) Characterization Of Municipal Solid Waste In Dhaka City, International Training Network- Bangladesh, Newsletter, Issue No 10, July, 1999.
87. **Rahman M. Mafizur**, Tamai N., Kawahara Y. (1999) Reliability In Natural Channels – Towards River Planning, 26th Annual Water Resources Planning And Management Conference, ASCE, June 6-9, 1999 Arizona, USA.
88. **Rahman M** (1999) Issues Of Recent Arsenic Contamination In The Ground Water Of Bangladesh, **Presentation** In The Annual General Meeting Of Alliance Of Global Sustainability (Ags), January, 1999, University Of Tokyo, Japan.
89. **Rahman M.M.** (1998) Reliability Analysis For The Planning Of Flood Control And Environmental Conservation, **Keynote Paper** At National Seminar Chaired By The Honorable Minister Of Water Resources Of The Government Of The People's Republic Of Bangladesh, 12 July, 1998, Ieb Dhaka Center, Dhaka. **Rahman, M.H., Rahman, M.**

- M.(1998) Sewage Treatment For Rural Communities, Eleventh Iwsa Aspac Regional Conference And Exhibition, Sydney.
90. **Rahman, M.M.**, Tamai,N., Kawahara,Y (1998) Reliability In Natural Channels – Dominant Factor, Xith Congress Of Apd-Iahr,Yogyakarta, Indonesia.
 91. **Rahman, M.M.**, Tamai,N., Kawahara,Y (1998) Flood Control Management – Towards An Environment Friendly Approach, International Symposium On Information Technology Tools For Natural Diasaster Risk Management, AIT, Bangkok, Thailand.
 92. **Rahman, M. M.**, Tamai, N. (1997) Load Resistance Approach For Risk Analysis In Natural Rivers, Annual Conference, JSCE, Tokyo.
 93. **Rahman, M. M.**, Tamai, N., And Kawahara, Y. (1996) Analytical Approach On The Stochastic Variation Of Water Depth By Variation Of Hydraulic Components, Int. Conference On Water Resour. And Env. Res.: Towards The 21st Century, Kyoto.
 94. **Rahman, M. M.**, Tamai, N., And Kawahara, Y. (1996) Effect Of Bed Profile On Reliability Of Flood Levee Design, Proc. Seventh Iahr Int. Symp., Mackey, Australia, Ed. By Tickle, K., Goulter, I. C., Xu, C., Wasimi, S. A., And Bouchart, F., 527-533.

PROJECTS:

1. Alam J.B., Badruzzaman A.B.M., **Rahman M.M.** (2000),Noise And Air Quality Monitoring In The Industrial Premises.
2. **Rahman M. Mafizur** (2000) Environmental Impact Assessment Of The Discharge Channel For The Fifth Unit Of The Ashuganj Thermal Power Plant, A Project Of Bureau Of Research Testing And Consultancy, Buet.
3. **Rahman M. M.**, Hossain M.D., Badruzzaman A. B. M., Ali A., Rahman M.M. (1999) Characterization Of Municipal Solid Waste And Preliminary Environmental Impact Assessment Of Collection And Disposal Works In Dhaka City
4. **Rahman M.M.**, Badruzzaman A.B.M., Ali A. (1998) Noise Level Monitoring At An Industrial Complex, A Project Of Bureau Of Research Testing And Consultancy, Buet.

5. Alam J. B., Rahman H. R., **Rahman M.M.** (1998) Remote Sensing Imagery To Assess The Environmental Impacts of Flood, Research Project of BUET After Flood 1998
6. **Rahman M.M.**, Hossain D., Rahman M.M. (1998) Impact of 1998 Flood: Assessment of Water Quality In Affected Areas of Dhaka City, Research Project of BUET After Flood 1998

EDITOR:

1. Rahman M.H., Zaman A.B.M.B., Alam M.J.B., **Rahman M.M.**, Ali M.A., Noor M.A., Wadud Z (2009) Climate Change Impacts and Adaptation Strategies for Bangladesh, ITN-BUET, Department of Civil Engineering-BUET, University College London-UK, British Council-Bangladesh, February 2009.
2. Problems Of Dhaka City And Integrated Approach Towards Its Solution, National Seminar And Publication, Institute Of Engineers Bangladesh (On 50th Anniversary Of The Institute Of Engineers , Bangladesh)

Projects Completed (With The Post Graduate Level Students)

List Of Research Works Completed With The Graduate Level Students:

- Geographical Presentation Of Existing Food Godowns Along With Proposed New Food Godowns And Of Probable Locations Of New Silo At Mongla Port
- Gis Application Of Bridge Network Of Bangladesh
- Development Of Dhaka City Water Supply And Sewerage Network Information System (Wsis).
- Gas Well Exploration Site And Its Impact In Environment, Using Gis.
- Database Analysis Of Arsenic Problem In Bangladesh .
- Analysis Of Discharge & Peak Flood Of The Padma River
- Location Of Deep Tubewell And Flow Rate In Dhaka City (Zone-4)
- Presentation Of Population Distribution And Density Of The Thana Chhagalnaiya By Gis Application
- World Bank Software On -Industrial Pollution
- Identification Of Potential Area For Industrial Development In Gazipur District

- Spatial Information Of Arsenic Contamination Of Ground Water In Bangladesh
- Rainfall Regime & Flood Monitoring System In Bangladesh
- Literacy Rate In Different Areas Of Bangladesh
- Application Of Gis On Data Of Hospitals And Other Healthcare Centers Of Bangladesh
- Water Quality Map Of Bangladesh
- Analysis Of Watsan Situation In 240 Villages In Bangladesh
- A Gis Based On Agricultural Census 1996 Of Bangladesh
- A Database On Agriculture And Food Grains In Bangladesh
- Geological Hazard Of Dhaka City
- A Database On Erosion And Flood In Different Years In Bangladesh
- Gis Application In Socio Environmental Modeling Of Khulna City
Fire Hazard In Dhaka City
- Air Pollution Intensity Mapping Of Dhaka City & Health Risk To Urbanite
Development Of Disaster Database And Identification Of Disaster Prone Areas
In Bangladesh
- Fate Of As, Fe, Al, Ca And Some Other Anions And Cations Extracted With
Groundwater In The Environment
- Application Of Gis In Irrigation Purpose
- Existing Practices Of Solid Waste Management Of Dcc
- Geographical Presentation Of Existing Road Networks Of Iswardi Upazila And
Proposal For The New Noise Pollution Modeling In Dhaka Metropolitan City Using Gis
- Spatial Information Of Ground Water Level Fluctuation In Ten Districs
(Modhupur Tract &Its Adjoining Area)Measured By Auto Water Level Recorder
- Power Plants In Bangladesh And Their Impacts On Environment
- Application Of Gis In Water Supply Development Planning: Context Bangladesh
- Gis Based Delineation Of Water Quality Of Deep Aquifer Zones For Safe
Drinking Purpose; A Case Study Of Kachua Upazila, Chandpur
- Pollution Modeling Of Tarapur Using Geo-Informatics
- Mapping Of Water Quality Parameters In Shallow & Deep Aquifers Of Bangladesh
- Water Quality Parameters Along The Peripheral Rivers Of Dhaka & Narayanganj
Socio-Environmental Modeling Of Dhaka-Chittagong Highway With The Help Of Gis
- Water Supply Network Mapping Of Dhaka Wasa Using Gis
- Dulia Satbila Subproject Sylhet District, Companiganj Upazila
- Mapping Of Bangladesh Using Gis On Arsenic Problem
- Environmental Degradation Of Dhaka City
- Arsenic Contamination Of Drinking Water Of Faridpur District With Special
Emphasis On Area Adjacent To River Research Institute(Rri)
- Geographical Presentation Of Existing Features Of Bharamara Upazila Of
Kushtia District And Proposal For A New Road
- Development Of Small Scale Water Resources Development Sector Project
(Sswrdsp) Database & Identification Of Developing Areas In Bangladesh
- Vulnerability And Risk Analysis Of Cyclone Hazard In Bangladesh

- Presentation Of Testing Of Presence Of Arsenic And Iron In Dhtws Of Lakshmpur District
- Graphical Presentation Of Surface Water Quality In Sylhet Municipality Using Gis
- Design Of A Future Solid Waste Disposal Site In Dhaka City Corporation By Using Gis Application
- Analysis Of Vulnerability Of Flood In Bangladesh
- Application Of Gis For Water Quality Analysis Of Four Rivers Surrounding Dhaka City
- Development Of Water Supply And Sewerage Network Information System In Dhaka City
- Environmental Changes In Developing Countries: A Case Study In Bangladesh
- Upazila Wise Water Quality Assessment For Different Water Supply Options
- An Integrated Approach To Assess The Effect Of Land Use Pattern Of Environmental Aspects
- Poverty Mapping Of Bangladesh Using Gis
- Salinity Trend Of South West Zonal Area Of Bangladesh
- Application Of Geographic Information System In Water Supply Development Planning- Context Bangladesh
- Scenario Of Irrigation Equipment And Irrigated Area During Rabi Season Under Minor Irrigation Project Using Gis
- Siesmic Hazard And Risk Analysis For Dhaka City
- Gis Application To Assess Domestic Water Quality Of Groundwater In Different Parts Of Bangladesh
- Application Of Gis In Solid Waste Management In Dcc
- Risk Assessment Due To Surface Quality In Sylhet Municipality Using Gis
- Water Resource Assessment Of Naogaon Districtby Using Gis
- Feasibility Study For Protection Of Brahmaputra Right Bank At Bairagirhat And Chilmari Bandar
- Role Of Gis For Collection Environmental Data For Telecom System
- Groundwater Quality Modeling Of Some Tubewells In Trishal Thana By Using Gis