

Resume of Professor Md. Munsur Rahman

PERSONAL DETAILS

Md. Munsur Rahman, Ph.D.
Professor and Director
Institute of Water and Flood Management (IWFM)
Bangladesh University of Engineering and Technology (BUET),
Dhaka-1000, Bangladesh
Date of Birth: December 27, 1965

EDUCATION

Post Doctoral Research	2002-2004	Disaster Prevention Research Institute, Kyoto University: Nature friendly river management techniques (Japan Society for the promotion of Science (JSPS) Fellowship): Research Theme: Nature friendly indigenous techniques for river management
PhD	1999	Graduate School of Civil Engineering, Kyoto University, Thesis: Studies on deformation Processes of meandering channels and local scouring around spur-dike-like structures (Japanese Government scholarship)
Msc in Civil Engineering	1996	Kyoto University, Thesis: Bank erosion and bend development of meandering channels (Japanese Government scholarship)
Bsc in Civil Engineering	1989	Department of Civil Engineering , Bangladesh University of Engineering and Technology, Thesis: Consolidation of very soft clay

PROFESSIONAL EXPERIENCE

Professional Positions

Duration	Position	Employers
November 2011-continuing	Director	Institute of Water and Flood Management (IWFM), Bangladesh University of Engineering and Technology (BUET)
June 2008- Continuing	Professor	IWFM, BUET
April 2006-May 2008	Associate Professor	IWFM, BUET
October 1999- April 2006	Assistant Professor	IWFM, BUET

CURRENT RESEARCH INTEREST

During his 24-year professional career, Prof Munsur focuses his research on the formation processes of large-scale sand bars in tidal and non-tidal rivers, together with the growth of charland resources and livelihood strategy of the people living there. During 2007-2009, he executed a collaborative research

with Vietnam, Cambodia and UK funded by DelpHE on the issue of river erosion bank protection and social response. Recently, he has started a 4-year-long consortium grant project with UK, Indian, and Chinese partners on the theme of health, livelihood, ecosystem services and poverty alleviation in populous deltas. The results will be useful in managing the populous deltas in a sustainable manner. General research interests are grouped into River and coastal processes, morphodynamics and river and coastal management; Ecosystem services of river, coasts and floodplain system, Indigenous approach on river, coasts and floodplain management; Bridge hydraulics and related problems.

RELEVANT WORK EXPERIENCE				
Funder	Role	Description of activities	No. of year	Results achieved/ to be achieved
Belmont Forum-G8 Countries	Co Investigator	Catalyzing action towards sustainability of deltaic systems with an integrated modeling framework for risk assessment, Funded by Belmont Forum / G8HORCs International Opportunities Fund, Coastal Vulnerability Theme, G8MUREFU3-2201-037 , US Lead: University of Minnesota +25 institutions globally, Bangladesh Co lead: IWF, BUET	September 01 2013- August 31 2016	A research paper titled : <i>A vision for a coordinated international effort on delta sustainability</i> , Plenary talk at the IAHS/IAPSO/IASPEI Scientific Assembly, Gothenburg, Sweden, 22-26 July, 2013 has been given and in the proceedings the paper has been published
JST-JICA	PI- Bangladesh consortium	Research on Disaster Prevention/Mitigation Measures against Floods and Storm Surges in Bangladesh, (2013-2018), JST-JICA Funded, Japanese Lead: DPRI, Kyoto University, Bangladesh Lead: IWF, BUET	2013-2018	Disaster management strategy for resilient society would be the final product
DfID, NERC, ESRC: UK, Bangladesh, India, China	PI – Bangladesh Consortium of ESPA Deltas Project	Project Title: Assessing Health, Ecosystem Services and Poverty Alleviation in Populous Deltas, DfID, NERC Funded, UK Lead: University of Southampton + 6 more university/institutions, Bangladesh Lead : IWF, BUET+ 10 more university/institutions, Indian Lead: Jadavpur University, and A Chinese University (Web site: www.espadelta.net)	March 31 2012-March 30 2017	A number of technical papers, reports, seminars etc have been arranged based on the research outputs
LGED	PI, Deputy PI and River Engineer	Hydromorphological and EIA study for more than one hundred road Bridges under LGED over the length of 100 meter or more	2009- 2013	Road network in Bangladesh over different river systems are being developed

Relevant other Activities

Period

Institute

Speaker in a number of short courses on dredging, wet land conservation, mathematical modeling etc organized at DCE, IWF

1999-2013.

Bangladesh University of Engineering and Technology

Supervision of Graduate Students and involvement of other activities

Awarded 1 Phd and 6 Msc and 1 Diploma Degree with the focus of interdisciplinary research (IWRM) , teaches Alluvial River Process and river and flood plain Management at Post Graduate Level at IWF, BUET and Socio economic issues in development projects and IWRM at IUT in the undergraduate level Member selection Board, Department of Civil Engineering, Rajshahi University of Engineering and Technology (RUET), Member, International Scientific Committee, International Symposium on River Sedimentation (ISRS2013)

Publications

Journals:

1. G.M. Tarekul Islam, A.K.M. Saiful Islam, Ahsan Azhar Shopan, **Md. Munsur Rahman**, Attila N. Lázár, Anirban Mukhopadhyay: Implications of Agricultural Land Use Change to Ecosystem Services in the Ganges Delta, Journal of Environmental Management, ELSVIER (under Review)
2. Robert J. Nicholls, Craig Hutton, Attila N. Lázár, **Md. Munsur Rahman**, Mashfiqus Salehin, Tuhin Ghosh: Understanding climate change and livelihoods in coastal Bangladesh, International Association for Hydro-Environment Engineering and Research(Hydro Link), Special Issue: Sea Level Rise Adaptation Measures, pp40-42, No 2/ 2013.
3. Md. Mosiur Rahman, Md. Abu Hena Mostofa Kamal² and Md. Munsur Rahman: Functioning Hydraulic and Morphological Sustainability of River Training Works in Bangladesh, Journal of Civil Engineering and Architecture, ISSN 1934-7359, USA,
4. Volume 7, No. 6 (Serial No. 67), pp. 756-766, 2013
5. Mohammad Nazim Uddin and **Md. Munsur Rahman**: Traditional Knowledge on Flow and Erosion Processes in the Braided Jamuna River in Bangladesh: Part-I, Indian Journal of Traditional Knowledge, 2013.
6. Mohammad Nazim Uddin and **Md. Munsur Rahman**: Traditional Knowledge on Flow and Erosion Processes in the Braided Jamuna River in Bangladesh: Part-II, Indian Journal of Traditional Knowledge, 2013.
7. Mohammad Nazim Uddin and **Md. Munsur Rahman**: Flow and erosion processes around the RCC spurs, International Journal Structural and Civil Engineering, Vol.1, Issue 1, ISSN: 2277-7032, 2012.
8. Mohammad Nazim Uddin and **Md. Munsur Rahman**: Flow and erosion at a bend in the braided Jamuna River, International Journal of Sediment Research, Vol 27, pp. 498-509, 2012.
9. Hao Zhang, Hajime Nakagawa, Yasuyuki Baba, Kenji Kawaike, **Md. Munsur Rahman** and Mohammad Nazim Uddin: Hydraulic and Morphological Consequences of Bank Protection Measures along the Jamuna River, Bangladesh, Annuals of Disas. Prev. Res. Inst., Kyoto Univ., Japan, No.54B, 2011.
10. Mohammad Nazim Uddin and **Md. Munsur Rahman**: Flow Hydraulics near Bank Protection Structures in the Jamuna River, Bangladesh Journal of Water Resource Research, BUET, Dhaka, Bangladesh, 2011.
11. Mohammad Nazim Uddin and **Md. Munsur Rahman**: Socio-Economic Impact of Erosion along the Right Bank of the Jamuna River in Bangladesh, DUET Journal, DUET, Gazipur, 2011.
12. Mohammad Nazim Uddin and **Md. Munsur Rahman**: Flow Processes into the Scour Hole around the Bank Protection Works, DUET Journal, DUET, Gazipur, 2011.
13. Rahman M. A., **Rahman. M. M.**; 'Impact of Livelihood Practices on the Char

Dwellers Economic Condition in Riverine Chars: Case Studies in Bangladesh' Journal of the Bangladesh Association of Young Researchers Vol 1, no. 1, January 2011; published by Bangladesh Association of Young Researchers.

14. Rahman M. A., **Rahman. M. M.**; 'Environmental Impact Assessment for Rural Community Infrastructure of Char Area: A Case Study' Journal of Environmental Technology and Construction Engineering (ETCE) published by SUST, 2011.
15. Rahman M. A., **Rahman. M. M.**; 'Impact of Climate change on agriculture during pre monsoon at chars of the lower Brahmaputra river', International Journal of Environment, ISSN 2186-6872, 2011.
16. Rasheduzzaman, M., Nakagawa, H., Zhang, H., **Rahman, Md. M.** and Muto Y., Flow and sediment transport around bandals under live-bed scour condition, Annual Journal of Hydraulic Engineering, JSCE, Vol.51, pp. 145-150, February, 2007
17. Haque, M.A., **Rahman, Md. Munsur**, Islam G.M.T. and Hussain M.A., Scour Mitigation at Bridge Piers using Sacrificial Piles, International Journal of Sediment Research, Vol. 22, No.41, pp. 49-59.
18. **Md. Munsur Rahman**, Hajime Nakagawa, Naoki Ito, Anisul Haque, Tarekul Islam, Rezaur Rahman and Mozzammel Hoque (2006): Prediction of Local Scour Depth around Bandal-like Structures, Annual J. of Hydraulic Engineering, JSCE, Vol. 50, pp. 163-168 .
19. **Md. Munsur Rahman**, Hajime Nakagawa and ATM Khaleduzzaman (2005): Formation of navigational channels using bandal-like structures, Annual J. of Hydraulic Engineering, JSCE, Vol. 49, pp. 997-1002.
20. **Rahman Md. Munsur**, Nakagawa Hajime and Haque M. Anisul (2004): Scouring around spur-dikes in alluvial floodplain rivers, Annual J. of Hydraulic Engineering, JSCE, Vol. 48, pp. 1075-1080.
21. **Rahman Md. Munsur** and Haque M. Anisul (2004): Local scour at sloped-wall spur-dike-like structures in alluvial river, Journal of Hydraulic Engineering, ASCE, Vol. 130, No.1, pp. 70-74.
22. **Rahman Md. Munsur** and Haque M. Anisul (2003): Local scour estimation at bridge site: Modification and application of Lacey formula, International Journal of Sediment Research, Vol. 18, No.4, pp. 333-339.
23. **Rahman, M.M.**, Haque, M.A. and Hoque, M.M. (2002): Applicability of Bend Development Theory in Natural Alluvial River, International J. of Sediment Research, Vol.17, 124-136, September.
24. **Rahman, M.M.** and Haque (2002): Flow Field and the Maximum Scour Depths around Piers and Abutments, J. of Indian Water Resources Society, vol. 22, No. 3, pp. 117-124.
25. Muramoto, Y. and **Rahman, M.M.** (2000): A Simplified Prediction Method for the Maximum Scour Depth around Spur-dike-like River Structures, J. of Civil engineering, JSCE, No. 642/II-50, 31-44.
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- Piles, Annual Journal of Hydraulic Engineering, Vol. 42, 991-996.
28. Nagata, N., Hosoda, T., Muramoto, Y. and **Rahman, M.M.**(1997): Numerical Analysis of Channel Processes using a Non-equilibrium Sediment Transport Model for the Bank Erosion, Annual Journal of Hydraulic Engineering, Vol. 41, 889-894.
 29. **Rahman, M.M.**, Nagata, N., Hosoda, T. and Muramoto, Y. (1996): Experimental Study on Morphological Process of Meandering Channels with Bank Erosion, Annual Journal of Hydraulic Engineering, Vol. 40, 947-952.
 30. Nagata, N., Hosoda, T., Muramoto, Y. and **Rahman, M.M.** (1996): Numerical Analysis of Channel Processes with Bank Erosion by means of Moving Boundary Fitted Co-ordinate System, Annual Journal of Hydraulic Engineering, Vol. 40, 927-932.

Conferences:

1. Efi Foufoula-Georgiou et al. (R. Nicholls, Z. Matthews, J. Dearing, A. Lazar, **M.M. Rahman**): *A vision for a coordinated international effort on delta sustainability*, Deltas: Land forms, Ecosystems and Human Activities, Editors: Gordon Young and Gerardo M.E. Perillo, Proceedings of HP1, IAHS/IAPSO/IASPEI Scientific Assembly, pp. 3-11, IAHS Press, Oxfordshire, 2013.
2. **Munsur Rahman**, AKM Saiful Islam, SK Bala and AKM Saiful Islam: Translation of Meander Bends at a Bridge Site: A Case Study of the Old Brahmaputra River, The 12th International Symposium on River Sedimentation (ISRS2013), September 2-5, Kyoto, JAPAN (in printing)
3. **Munsur Rahman**, Anisul Haque, Robert J. Nicholls, Stephen Darby, AKM Saiful Islam, Muhammad Khalid Bin Siddique, Mohammad Rezaie Ali and Md.Hafez Ahmed: Assessment of the Influence of Tidal and fluvial hydrodynamics on the stability of the Ganges-Brahmaputra-Meghna Delta, Accepted for Poster presentation, 2013 ESPA Annual Science Conference, 20 – 21 November 2013, London, UK.
4. Wolf, J., Chowdury, M.S.M., **Rahman, M.M.**, Ghosh, T., Bricheno, L., Kay, S. and Caesar, J.: Assessing the impact of cyclones in the coastal zone of Bangladesh, Accepted for Poster presentation, 2013 ESPA Annual Science Conference, 20 –21 November 2013, London, UK
5. Mostafa A R Hossain, Munir Ahmed, Jose Fernandes Salvador, Manuel Barange and **Md. Munsur Rahman**: Recent trend in natural abundance and farming of aquatic organisms in west coast of Bangladesh, Accepted for Poster presentation, 2013 ESPA Annual Science Conference, 20 –21 November 2013, London, UK
6. Anisul Haque, **Munsur Rahman**, Shah Alam, Sumaiya, Ishtiaq Ahmed, Maminul Haque Sarker, Robert J. Nicholls, Stephen Darby, Shahad Mahabub Chowdhury, Muhammad Khalid Bin Siddique, Hafez Ahmed, Mohammad Rezaie Ali, Tuhin Ghosh: RELTIONSHIP BETWEEN THE SHAPES AND HYDRAULIC REGIMES OF THE ESTUARIES OF THE GANGES-BRAHMAPUTRA-MEGHNA DELTA, International Conference on Climate Change Impact and Adaptation (I3CIA-2013), Nov 15-17, 2013 (accepted)
7. **Munsur Rahman**, Anisul Haque, Muhammad Khalid Bin Siddique, Mohammad Rezaie Ali, Md.Hafez Ahmed, Robert J. Nicholls, Stephen Darby,

Judith Wolf, Maminul Haque Sarker, Shah Alam, Ishtiaq Ahmed, Sumaiya,, Mostafa Ali Reza Hossain, Munir Ahmed, Lucy M. Bricheno, Ricardo Torres, Shahad Mahabub Chowdhury, Tuhin Ghosh: A PRELIMINARY ASSESSMENT OF THE IMPACT OF FLUVIO-TIDAL REGIME ON GANGES-BRAHMAPUTRA-MEGHNA DELTA AND ITS IMPACT ON THE ECOSYSTEM RESOURCES, International Conference on Climate Change Impact and Adaptation (I3CIA-2013), Nov 15-17 2013 (accepted)

1. Maminul Haque Sarker, Jakia Akter and Md. Munsur Rahman: Century-scale Dynamics of the Bengal Delta and Future Development, Proceedings of the 4th International Conference on Water and Flood Management (ICWFM), 2013, pp 91- 104.
2. Rahman Md. Munsur, Siddique Muhammad Khalid Bin and Azad Sadia: Trend of Spatial and Temporal Variations of Tidal Range in the Bengal Delta, Proceedings of the 4th International Conference on Water and Flood Management (ICWFM), 2013, pp 433- 440.
3. Rituparna Hajra, Anirban Mukhopadhyay, Hamidul Huq, Md. Munsur Rahman and Tuhin Ghosh: CRISIS AND POLICY FOR THE ENVIRONMENTAL REFUGEES IN GHORAMARA ISLAND (INDIA), Proceedings of the 4th International Conference on Water and Flood Management (ICWFM), 2013, pp 459- 466
4. Md. Munsur Rahman, Farzana Mahmud and Mohammad Nazim Uddin: Effect of Sand Bars on Failure of Bank Protection Work along Large Sand Bed Braided River, Sixth International Conference on Scour and Erosion (ICSE6), Paris - August 27-31, 2012.
5. Mohammad Nazim Uddin and Md. Munsur Rahman: Failure of Sirajgang Hardpoint at Changing Hydro-Morphology, 3rd International Conference on Water & Flood Management (ICWFM-2011), 8th to 10th January, 2011, IWFM, BUET, Dhaka, Bangladesh.
6. Md. Munsur Rahman, Farzana Mahmud, Muminul Haque Sarker, Mohammad Nazim Uddin, Hasan Mahmud Tuhin, Mohammad Arifur Rahman, and Md. Moshir Rahman: Flow processes in an eroding bend fixed with two hardpoint along the braided Jamuna River, 3rd International Conference on Water & Flood Management (ICWFM-2011), 8th to 10th January, 2011, IWFM, BUET, Dhaka, Bangladesh.
7. Mohammad Nazim Uddin, M Mozzammel Hoque and Md. Munsur Rahman (2010), Flow field around bank protection structures along the Jamuna river, 17th Congress IAHR APD 2010, 21st to 24th February, Auckland, New Zealand.
8. Mohammad Nazim Uddin and Md. Munsur Rahman (2009), Flow pattern visualization and erosion estimation at a bend along the braided Jamuna river, River, Coastal and Estuarine Morphodynamics 2009, 21st to 25th September, 2009, Santa Fe, Argentina.

9. Mohammad Nazim Uddin and Md. Munsur Rahman (2009), Flow field around Sirajgang hardpoint along the Jamuna river in Bangladesh, 2nd International Conference on Water & Flood Management (ICWFM), IWFM, BUET, Dhaka, Bangladesh.
10. Md. Munsur Rahman, Mohammad Asad Hussain, Md. Motaher Hossain, Maminul Haque Sarker and Mohammad Nazim Uddin (2007): Protective Measures of Flood Embankment along the Jamuna River in Bangladesh, 6th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, December 9-10, 2007, Dhaka.
11. Rahman M. A., Rahman. M. M.; 'Resource and livelihood practices of char dwellers: A case study of an attached char', pp. 207-213, Vol. 1, January 2011, 3rd International Conference on Water and Flood Management, IWFM, BUET
12. Rahman M. A., Rahman. M. M.; 'Climate change induced impact on agriculture during pre monsoon at chars of the lower Brahmaputra river', 2010, International Conference on: Ecosystem Responses to global environmental change (ECOREC 2010); Aquatic Ecology Centre (AEC), Kathmandu University.
13. Rahman M. A., Rahman. M. M.; 'Environmental Impact Assessment for Rural Community Infrastructure of Char Area: A Case Study Of Kurigram District', International Conference on Environmental Technology & Construction Engineering for Sustainable Development ICETCESD-2011, March 10-12, 2011, SUST, Sylhet.
14. Rahman M. A., Rahman. M. M.; 'Impact of Changing Environment on Char Formation and Char Dwellers Livelihood of Lower Brahmaputra River', South Asian Regional Conference on Natural Resource Conservation in the Developing Countries Under the Changing Climate, 28-29 February & 01 March 2012, Rajshahi University, Bangladesh
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16. Rahman M. A., Rahman. M. M.; 'Char Formation Process and Livelihood Characteristics of Char Dwellers of Alluvial River in Bangladesh', *International Conference on Scour and Erosion, Paris - August 27-31, 2012 (accepted)*.
17. Uday Kumar Roy, Shamima Nasrin and Md. Munsur Rahman (2007): Effect of Bandal Spacing on Formation of Navigational Channels: Experiments, March 12-14, ICWFM-2007, Vol. I, pp. 117-123.
18. Rumana Sharmin, Md. Munsur Rahman, Abdul Matin, Emdadul Haque, Ibrahim Hossain and Abdur Razzak (2007): Efftiveness of Bandalling and Dredging for the Maintenance of Navigation Channel in the Jamuna River, March 12-14, ICWFM-2007, Vol. I, pp. 125-133.
19. Md Munsur Rahman, Mozzammel Hoque, Anisul Haque, Tarekul Islam and Rezaur Rahman (2007): Effectiveness of Spur-dikes in River Training Works: A Case Study along the Ganges in Bangladesh, March 12-14, CWFM-2007, Vol. I, pp. 109-116.
20. Md. Munsur Rahman, Hajime Nakagawa, Anisul Haque, Tarekul Islam and Taisuke Ishigaki (2005): A sustainable solution for the stabilization of navigational channels in floodplain environment, XXXI IAHR Congress,

- September 11-16, 2005, pp. 5228- 5236.
21. Md. Munsur Rahman, Hajime Nakagawa, ATM Khaleduzzaman, Taisuke Ishigaki, Yasunori, Muto (2004): On the formation of stable river course, Annuals of disaster Prevention Research Institute, Kyoto University, No. 47 B, pp. 601-616.
 22. Taisuke, Ishigaki, T. Ueno, Md. Munsur Rahman and ATM Khaleduzzaman (2004): Scouring and flow structure around an attracting groin, 3rd International Conference on River Flow (in printing).
 23. Takeuchi, S., Khaleduzzaman, ATM, Rahman, M.M., Nakagawa H. and Ishigaki, T. (2004): Experimental study on bed deformation around bandals, Annual Symposium of JSCE, Kansai Division.
 24. Rahman Md. Munsur and Nakagawa Hajime (2003): Scouring around spur-dikes in alluvial rivers, International conference Disaster mitigation and water management (ISDB, 2003), Niigata, Japan, pp. 289-298.
 25. Rahman Md. Munsur, Haque M. Anisul, Nakagawa Hajime and Muramoto Yoshio (2003): Local scour around spur-dikes in a braided river, XXX IAHR Congress, Greece, Theme C, pp. 777-784.
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 27. Khaleduzzaman ATM., Nakagawa Hajime, Rahman Md. Munsur, Ishigaki Taisuke and Kitamura Koichi (2003): Flow and bed deformation around permeable groins, Fifth International Summer Symposium, JSCE, July 26, pp. 181-184.
 28. Rahman Md. Munsur, Nakagawa Hajime, Ishigaki Taisuke and Khaleduzzaman ATM (2003): Channel stabilization using bandalling, Annuals of disaster Prevention Research Institute, Kyoto University, No. 46 B, pp. 613-618.
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 30. Rahman, M.M., Haque, M.A., and Islam, M.S. (2002): Flow and Scouring around Piers and Abutments, 13th IAHR-APD Congress, Singapore, 280-283, August.
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 32. Rahman, M.M., Haque, M.A., Hoque, M.M., Sarker, M.F.H. and Mamun, S.A. (2001): Local Scouring at bridge Site in Natural River, 2nd IAHR Symposium on River, Coastal and Estuarine Morphodynamics (RCCEM), 255-263, September.
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 35. Rahman, M.M., Hussain, M.A., Islam, G.M.T., Haque, M.A., and Hoque, M.M. (2001): Hydro-morphological Characteristics around the Meghna Bridge Site in the Meghna River, 4th International Conference on Mechanical Engineering, Vol 2, Section IV, 75-80, December.

36. Rahman, M.M., Haque, M.A., and Islam, S.A. (2001): Hydro-morphological Characteristics around the Meghna Bridge Site in the Meghna River, 4th International Conference on Mechanical Engineering, Vol 2, Section IV, 101-106, December.
37. Rahman, M.M., Murata, H., Nagata, N. and Muramoto, Y. (1999): Effect of Side Slope on Flow and Scouring around Spur-dike-like Structures, River Sedimentation, 165-171.
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