

## ড. মোঃ মাসুদুর রহমান

1. **Name** : DR. MD. MASUDUR RAHMAN
2. **Current/Present Position** : Chief Research Officer (Forest Management Wing)
3. **First joining date** : 10<sup>th</sup> November, 1993
4. **Academic/Professional Qualification:**
  - a) **Ph.D. Degree**, 1990. Kuban State Agricultural University, Krasnodar, Russia.
  - b) **M.S.(Ag.) Degree, First Class**, 1987. Kuban State Agricultural University, Krasnodar, Russia.
  - c) **Russian Language Course**, 1981. Kuban State Agricultural University, Krasnodar, Russia.
  - d) **Higher Secondary Certificate**, 1980, **First Division with Distinction & stood 11th in combined merit list**. Board of Intermediate & Secondary Education, Jessore, Bangladesh.
  - e) **Secondary School Certificate**, 1978, **First Division**. Board of Intermediate & Secondary Education, Jessore, Bangladesh.

### **Scholarship/Grants Received :**

- i. Scholarship awarded by the Government of Bangladesh for higher education leading to M.S. degree of the then USSR presently Russia in 1981 (based on merit).
- ii. Postgraduate Research Grant awarded by the Council of Mutual Economic Assistance for Ph.D. Research in 1987 (based on merit).

### **5. Experiences :**

- a) **Chief Research Officer** ( From 30 August, 2018 till date ) :  
Working as a Chief Research Officer of Forest Management Wing, Bangladesh Forest Research Institute, Chittagong.
- b) **Divisional Officer** (From 13 June, 2007 to 29 August, 2018) :  
Worked as Divisional head of the Mangrove Silviculture Division, Bangladesh Forest Research Institute.
- c) **Senior Research Officer** ( From November 10,1993 to June 12,2007):  
Worked as a Senior Research Officer of the Mangrove Silviculture Division, Bangladesh Forest Research Institute.
- d) **Faculty Member** ( From 1992 to 1993 ) :

Worked as a Faculty Member of the Management Development Program, Bangladesh Rural Advancement Committee (BRAC).

**e) Senior Researcher** ( From 1990 to 1991 ) :

Worked as a Senior Researcher of the Department of Plant Breeding & Genetics, All-Union Institute of Plant Industry, St. Petersburg, Russia.

**f) Research Assistant** ( From 1987 to 1990 ) :

Worked as a Research Assistant of the Department of Plant Breeding & Genetics, All-Union Institute of Plant Industry, Russia. The employment was made within the tenure of my Ph.D. Scholarship.

**Other Experiences** :

- External moderator and examiner of Forestry and Wood Technology Discipline, Khulna University since 1995
- Co-supervisor of three Ph. D scholars of Forestry and Wood Technology Discipline, Khulna University
- Member of Doctoral Research Advisory Committee (DRAC), Khulna University
- Member of Governing Body, Research Cell, Khulna University

**Affiliations** :

- Senate Member, Khulna University
- Member, Regent Board, Patuakhali Science and Technology University
- Life Member, International Society for Mangrove Ecosystems, Japan

**6. Specialization** : Mangrove Silviculture, Biodiversity, Genetics and Tree Improvement

**7. Research Publications:** 52 scientific articles published in national and international scientific journals.

**Rahman, M.M.,** Dragavtsev V.A. 1988.Problems of Predicting Heterosis in Quantitative Genetics. *In: Biometrics in Plant Breeding. Proceedings of the seventh meeting of the EUCARPIA, Norway, 126-130pp.*

**Rahman, M.M.,** Dragavtsev V.A. 1990.New approaches to prediction of heterosis in plants. *Journal of Agricultural Biology, Moscow, Russia (the then USSR) No. 1:3-12 (in Russian).*

**Rahman, M.M.** 1990. A new approach to analysis of heterosis. *In: Methods of Intensification of Breeding Process. All Union Institute of Crop Breeding, Odessa. 35-36pp (in Russian).*

**Rahman, M.M..** Experimental verification of Graffius hypothesis on heterosis effect due to additive gene action. *Journal of Agricultural Research, Krasnodar Agricultural Research Institute (USSR), 1988. 162-164PP.*

- Rahman, M.M.** Prospects of prediction of heterosis in crop plants. In: Selection Method Based on Complex Traits in Crop Breeding. Proceedings of All Union Conference, 26-28<sup>th</sup> September, 1989. Simpheropol. 67-68pp (in Russian).
- Rahman, M.M.,** Dragavtsev, V.A. Eco-genetical model of heterosis effect in plants. In: Ontogenetic of Plants. Proceedings of All Union Conference, Kishinev, 17-18 October, 1989 (in Russian).
- Plotnikov V.K., Kill V.I. and **Rahman, M.M.** Effect of actinomycin, heparin and canavanin on synthesis of storage proteins in maize grains. Proceedings of All Union Conference on Biotechnology of Cereal Crops. Alma-Ata, 8-10 June 1988, 47-48pp (in Russian).
- Faizuddin, M. **Rahman, M.M.,** Shahidullah, M., Siddiqui, A.S.M.H.A. and Rashid, M. H. 1996. A new approach to study the top dying problem of *Heritiera fomes* in the mangrove forest of Bangladesh. World Heritage Tropical Forests Conference, 2-6 September, 1996, Cairns, Australia.
- Faizuddin, M. **Rahman, M.M.,** Moula, M.G. and Shahidullah, M. 1996. Study on the floral diversity and their present status in the Sundarbans mangrove forest of Bangladesh. World Heritage Tropical Forests Conference, 2-6 September, 1996, Cairns, Australia.
- Faizuddin, M., **Rahman, M.M.** and Shahidullah, M. 1996. Study on the natural regeneration of the major mangrove tree species in the Sundarbans of Bangladesh. In: *Modeling Regeneration Success and Early Growth of Forest Stands*. Proceedings from the IUFRO Conference held in Copenhagen. Danish Forest and Landscape Research Institute, Horsholm, 22-29pp.
- Helalsiddiqui, A.S.M., Faizuddin, M., **Rahman, M.M.,** Shahidullah, M. and Rashid, M. H. 1997. Economic importance, role and uses of goran (*Ceriops spp.*)- a resourceful mangrove species in the Sundarbans. *Journal of Non-Timber Forest Products*, 4 (3/4): 123-125.
- Faizuddin, M. **Rahman, M.M.,** Shahidullah, M., Siddiqui, A.S.M.H.A., Hasnin, M. and Rashid, M. H. 1998. Survival and growth performance of some mangrove species planted in the Sundarbans of Bangladesh. *Bangladesh Journal of Forest Science*, 27(2): 121-127.
- Faizuddin, M. **Rahman, M.M.,** Shahidullah, M., Siddiqui, A.S.M.H.A., Hasnin M., and Rashid, M. H. 1999. Performance of selected mesophytic species in the raised lands of the Sundarbans mangrove forest of Bangladesh. IUFRO XXI World Congress-2000, Malaysia.
- Faizuddin, M., **Rahman, M. M.,** Shahidullah, M., Siddiqui, A.S.M.H.A., Hasnin, M. and Rashid, M. H. 1999. Plantation of golpata (*Nypa fruticans*) in the newly accreted sites of the Sundarbans mangrove forests of Bangladesh. "Tropical Restoration for the New Millennium Conference", Sun Juan, Puerto Rico, USA, May 23-28, 1999.

- Faizuddin, M., **Rahman, M.M.** and Shahidullah, M. 1999. *Harvesting, Transportation and Regeneration Status of Gewa (Excoecaria agallocha) in the Sundarbans of Bangladesh*. Bull. 4., Mangrove Series. Mangrove Silviculture Division. BFRI. 6pp.
- Faizuddin, M., **Rahman, M.M.**, Shahidullah, M., Siddiqui, A.S.M.H.A., Hasnin, M. and Rashid, M.H. (2000). Survival and growth performance of golpata (*Nypa fruticans*) in the newly accreted sites of the Sundarbans of Bangladesh. *Bangladesh Journal of Forest Science*, 29 (2), 79-84.
- Faizuddin, M., **Rahman, M.M.**, Shahidullah, M., Siddiqui, A.S.M.H.A., Hasnin, M. and Rashid, M.H. ((1998). Survival and growth performance of some mangrove species planted in the Sundarbans of Bangladesh. *Bangladesh Journal of Forest Science*, 27 (2), 121-127.
- Faizuddin, M.; **Rahman, M.M.**; Shahidullah, M.; Siddiqui, A.S.M.H.A.; Hasnin, M. and Rashid, M.H. (2000). Golpata (*Nypa fruticans*) Sundarbaner akti guruttapurna banaj sampad (Golpata (*Nypa fruticans*) An important forest produce of the Sundarbans). Mangrove Silviculture Division, Bangladesh Forest Research Institute, Khulna-9000, Bangladesh. 26 pp.
- Rahman, M.M.** 2003. Genetic approach to mitigate the top dying problem of sundri (*Heritiera fomes*) in the mangrove forest of Bangladesh. In: Baksha, M.W. (ed.). *Mortality of Sissoo (Dalbergia sissoo) and Top Dying of Sundri (Heritiera fomes) in Bangladesh*. Bangladesh Forest Research Institute, Chittagong. Bangladesh. 87-90 pp.
- Rahman, M.M.** 2004. Biodiversity Degradation in Mangrove Forest of Bangladesh. In: Proceedings of the Training-Workshop on Dissemination of Research Findings of the Sundarban Mangrove Ecosystem of Bangladesh. Mangrove Sylviculture Division, Bangladesh Forest Research Institute, Khulna, Bangladesh. 21-32 pp.
- Rahman, M.M.** 2006. Sundarbaner Jiboboichitro o Tar Sangrakkon In: BADABAN. Sundarban Academy Journal-01/06, Khulna-9100, Bangladesh. 89-92 pp.
- Rahman, M.M.** 2007. Environmental Changes in the Mangrove Ecosystems. In: BADABAN. Sundarban Academy Journal-01/07, Khulna-9100, Bangladesh. 31-34 pp.
- Islam S.A., Faizuddin M., Helal Siddiqui A.S.M., Rashid M.H., **Rahman M.M.**, Hasnin, S.M.M., and Shahidullah, M. (2008). Effect of Felling Top Dying Affected Sundari ( *Heritiera fomes* ) Trees on the Abundance of Regeneration in the Sundarban of Bangladesh. *Bangladesh Journal of Forest Science*, 31 (1&2), 57-68.
- Islam S.A., Faizuddin M., Rashid M.H., Hasnin, S.M.M., **Rahman M.M.**, Helal Siddiqui A.S.M. and Shahidullah, M. (2008). Influence of Deer ( *Axis axis* ) on the Newly Recruited Seedlings of Some Major Mangrove Species in the Sundarban of Bangladesh. *Bangladesh Journal of Forest Science*, 31 (1&2), 76-85.

- Rahman, M.M.** 2008. Mangrove Forest of Bangladesh and Their Management Chronology. *In: BADABAN. Sundarban Academy Journal-02/08, Khulna-9100, Bangladesh.* 49-61 pp.
- Rahman, M.M.** 2009. Silviculture for Sustainable Management of Mangrove forest. *In: BADABAN. Sundarban Academy Journal-03/09, Khulna-9100, Bangladesh.* 45-59 pp.
- Rahman, M.M.** 2010. Climate Change Adaptation and Mitigation through Sustainable Management of Mangrove Forest. *In: BADABAN. Sundarban Academy Journal-04/10, Khulna-9100, Bangladesh.* 30-38 pp.
- Rahman, M.M.** 2010. Conservation and Development of Mangrove Ecosystems in the Sundarban of Bangladesh. IUFRO XXIII World Congress-2010, Korea.
- Rahman, M.M.** 2011. Conservation and Rational Exploitation of Mangrove Ecosystems. *In: BADABAN. Sundarban Academy Journal-05/11, Khulna-9100, Bangladesh.* 60-68 pp.
- Rahman, M.M.** 2011. Conservation and Development of Mangrove Ecosystems in the Sundarban of Bangladesh. *In: Theme-4: Mangrove and coastal land/forest management for long term resource sustainability. First Bangladesh Forestry Congress 2011, Dhaka, Bangladesh, 19-21 April 2011. No.44, 41-42 pp.*
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- Haider M. R., Islam S.A., **Rahman M. M.,** Ahmed K. U. and Zahirul Islam S. M. 2012. Fruit Tree Species of Coastal Homesteads in Bangladesh. Bulletin 1, Homestead Tree Series. Bangladesh Forest Research Institute. Chittagong, Bangladesh. 24pp.
- Helal Siddiqui, A.S.M., Khair A., **Rahman, M. M.** & Hasnin S. M. M. 2013. Silvicultural Aspect of Passur (*Xylocarpus mekongensis*) Tree in the Sundarban with Special Reference to Heart Rot Disease. Pakistan Journal of Forestry, Vol. 63(1), 52-75pp.
- Helal Siddiqui A. S. M., **Rahman, M. M.** & Hasnin S. M. M. 2013. Gene conservation with mangrove species at three demonstrative plots in the Sundarbans. IUFRO Congress, 2014, USA. No-513.
- Rahman, M.M.,** Hasnin, S. M. M and Helal Siddiqui, A.S.M. 2013. ম্যানগ্রোভ ইকোসিস্টেম উন্নয়ন ও সংরক্ষণ (Enrichment and Conservation of Mangrove Ecosystem). Mangrove Silviculture Division, Bangladesh Forest Research Institute, Khulna, Bangladesh.
- Rahman, M.M.,** Hasnin, S. M. M and Helal Siddiqui, A.S.M. 2013. ম্যানগ্রোভ সিলভিকালচার বিভাগের উদ্ভাবিত প্রযুক্তিসমূহ (Generated Technologies of Mangrove

Silviculture Division). Mangrove Silviculture Division, Bangladesh Forest Research Institute, Khulna, Bangladesh. 28 pp.

- Rahman, M.M.** and Islam S.A. 2015. Phenophases of Five Mangrove Species of the Sundarbans of Bangladesh. *Int. J. Bus. Soc. Sci. Res.* 4(1): 77-82.
- Rahman M.M.** 2016. Development of nursery and plantation techniques of *Aegiceras corniculatum* (L.) Blanto and its site suitability in the Sundarban of Bangladesh. *Bangladesh Res. Pub. J.* 12(1):50-59.
- Rahman, M.M.** 2016. Khalshi (*Aegiceras corniculatum*) – An important honey producing plant and its cultivation in the Sundarban of Bangladesh. Bulletin 5, Mangrove Series. Mangrove Silviculture Division. BFRI. 32pp.
- Rahman, M.M.** (2016). *Ex Situ* Conservation of *Rhizophora mucronata* Lam. in the Sundarban Mangrove Forest of Bangladesh. *Int. J. Bus. Soc. Sci. Res.* 5(1):103-110.
- Rahman, M.M.** (2017). Regeneration Status of Major Mangrove Species in the Sundarban Mangrove Forest of Bangladesh. *Int. J. Bus. Soc. Sci. Res.* 5(3): 71-76.
- Rahman, M.M.** (2017). Development of Homestead Forest and Environment to Support the Rural People Living Adjacent to the Sundarban. *Int. J. Bus. Soc. Sci. Res.* 5(3): 37-44.
- Alam, M.R., H. Mahmood, **M.M. Rahman**, T. Biswas, S. Nasrin & M. S. T. L. R. Khushi, 2017. Ecological status and environmental protective role of *Avicennia officinalis* in the vulnerable coastal regions of Bangladesh: an overview. *The Indian Forester* 143(9): 817–822.
- Alam, M. R., H. Mahmood, M. L. R. Khushi & **M. M. Rahman**, 2018. Adaptive phenotypic plasticity of *Avicennia officinalis* L. across the salinity gradient in the Sundarbans of Bangladesh. *Hydrobiologia* 808(1): 163–174.
- Rahman, M. M.**, Nandy P., Helal Siddiqui, A.S.M., & Mehadi Hasan Sk. M. (2017). সাইক্লোন 'সিডর' এর আঘাতে সুন্দরবন ও উপকূলীয় অঞ্চলের বন গবেষণা কেন্দ্র ও বন বাগান সমূহে ক্ষয়ক্ষতির বিবরণ ও বর্তমান অবস্থা (Effect of Cyclone "SIDR" on the Forest Research Stations and Experimental Plantations in the Sundarban as well as Coastal Areas and present condition of the Sundarban). Bulletin 6, Mangrove Series. Mangrove Silviculture Division. BFRI. 48pp.
- Helal Siddiqui, A.S.M., Khair A., & **Rahman, M. M.** 2017. An overview of heart rot disease of Passur (*Xylocarpus mekongensis*) trees in the Sundarbans of Bangladesh, In: Plant Diversity – Food Security and Environmental Management. 7<sup>th</sup> International Botanical Conference 2-3 December 2017, Dhaka, Bangladesh, 32pp.
- Rahman, M.M.** (2018). Growth Performance and Site Suitability of *Lumnitzera racemosa* Willd. in the Sundarban Mangrove Forest of Bangladesh. *Int. J. Bus. Soc. Sci. Res.* 6(2): 88-98.

Alam, M. R., H. Mahmood & **M. M. Rahman**, 2018. Maternal origins induced plasticity in salt adaptability of *Avicennia officinalis* L. seedlings in the Sundarbans of Bangladesh. *Hydrobiologia*. Springer International Publishing AG, part of Springer Nature 2018. Volume 820(1): 227–244.

**Rahman, M. M.** (2018). Enrichment of mangrove ecosystems through *Kandelia candel* (L.) Druce species in the Sundarban Mangrove Forest of Bangladesh. *Int. J. Bus. Soc. Sci. Res.* 6(4): 01-08.

### **Other technical Publications**

**Rahman, M. M.** 1987. The Effect of Different Stimulators on the Content of Lysin for Increasing the Food Value of Maize Grain. M. S. Thesis. Kuban State Agricultural University, Krasnodar, Russia. 185pp.

**Rahman, M. M.** 1990. An Eco-genetical Study of Heterosis in Wheat (*Triticum aestivum*). Ph.D dissertation. Kuban State Agricultural University, Krasnodar, Russia. 362pp.

**Rahman, M.M., Hasnin, S. M. M and Helal Siddiqui, A.S.M.** 2014. SPGR Sub-Project Completion Report “Enrichment and Conservation of Mangrove Ecosystem”. PIU-BARC, Dhaka-1215, Bangladesh. 56pp.

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