

BIO DATA



1. Name : Dr. **MD. RAFIQU L ISLAM**
2. Father's Name : Late Nur Mohammad Sikder
3. Mather's Name : Late Rousanara Begum
4. Permanent Address : Village-Haluakandi, P.O. Jamtoil, P.S.- Kamarkanda, District-Sirajganj, Bangladesh
5. Present/Mailing Address : Chief Scientific Officer and Head
Soil Science Division
Bangladesh Rice Research Institute, Gazipur.
6. Date of Birth : 25th November, 1971
7. Nationality : Bangladeshi (by birth)

8. Educational Qualifications :

Degree/ Diploma/ Certificate	Class/ Grade/ Division	University/ Institute/ Board	Year
S.S.C	1 st	Rajshahi	1986
H.S.C	1 st	Rajshahi	1988
B. Sc. Ag	1 st	BAU, Mymensingh	1992
M. S. in Soil Science	1 st (Grade A) GPA-3.60	BSMRAU, Salna, Gazipur	Autumn, 2003
PhD in Soil Science	1 st (Grade A) GPA-4.00	BSMRAU, Salna, Gazipur	Autumn, 2012

9. **Field of specialization:** Soil fertility and environmental pollution

10. Additional qualification/Training acquired in Bangladesh and /or abroad (List of all short-term training, not included in educational career. Give dates and duration of course)

Sl. No.	Training Title	Starting Date	Ending Date	Duration	Remarks
1	Rice Production, Communication and Office Management	18/10/1998	14/12/1998	02 months	Satisfactory
2	Soil fertility and fertilizer management	19/04/1999	23/04/1999	05days	Satisfactory
3	Thana Soil Development	12/02/2000	14/02/2000	03 days	Satisfactory

4	Foundation Training Course	05/11/2000	18/02/2001	3.5 months	BARC Chairman's awards
5	Computer application course on MS word, MS Excel, MS power point and SPSS	28/01/2001	12/02/2001	16 days	Satisfactory
6	Motor Driving and Mechanics	28/01/01	17/02/01	20 days	Satisfactory
7	Development Communication in Agricultural	26/05/01	27/05/01	02 days	Satisfactory
8	Use of Manual for fertilizer Analysis	01/6/04	10/6/04	10 days	Satisfactory
9	Use of Fertilizer Recommendation Guide	20/09/06	21/09/06	2 days	Satisfactory
Abroad					
1	Computer application in irrigation management	22/05/2000	02/07/2000	43 days	Satisfactory
2	Rice Production Technologies	27/03/06	07/04/06	12 days	Satisfactory

11. Experience:

Job Title	Joining Date	Ending Date	Institute
Research Fellow	07/01/1998	19/08/1998	IPSA, Gazipur
Scientific Officer	20/08/1998	11/04/04	BRRI, Regional Station, Comilla
Scientific Officer	12/04/04	30/05/06	Soil Science Division, BRRI, Gazipur-1701
Senior Scientific Officer	1/6/06	01/05/2010	Soil Science Division, BRRI, Gazipur-1701
Principal Scientific Officer	02/05/2010	13.09.2012	Soil Science Division, BRRI, RS, Barisal
Principal Scientific Officer and Head	14.09.2012	25.09.2012	BRRI, RS, Barisal
Principal Scientific Officer and Head	26/09/2012	15.11.2013	BRRI, RS, Sonagazi
Principal Scientific Officer and Head	28.12.2013	07.09.2014	BRRI, RS, Barisal
Chief Scientific Officer (Current Charge) and Head	15.09.2014	03.02.2016	BRRI, RS, Sonagazi
Chief Scientific Officer (Current Charge) and Head	28.01.2016	23.04.2018	BRRI, RS, Rajshahi
Chief Scientific Officer (Current Charge) and	31.12.2018	20.11.2019	Soil Science Division, BRRI

Head			
Chief Scientific Officer and Head	20.11.2019	To date	Soil Science Division, BRRI

12. Performance:

A. Lists of Publications

a) Scientific journals

(I) Full paper

(a) Paper published in the Reputed International Journal

(i) As *Principal-author*

1. **Islam, M. R.**, G. K. M. Mustafizur Rahman, A. J. M. Sirajul Karim, M. Giasuddin Miah and M. Abu Saleque. 2015. Quality Assessment of Different Industrial Effluents for Irrigation in Agriculture. *J. Earth Sci. and Engineering*. 5:134-145.
2. **Islam, R.**, G.K. M. Mustafizur Rahman, A.R.M. Solaiman and Abu Saleque. 2016. Long-term effect of industrial waste water irrigation on soil chemical properties. *J. Environmental Sci. and Engineering*. A 5:241-258.
3. **Islam, R.**, G. K. M. Mustafizur Rahman and M. A. Saleque. 2019. Manipulation of Chemical Properties in Soil under Wetland Rice through Industrial Effluents. *A. J. Soil Sci. and P. Nut*. 5 (1):1-15.
4. **Islam, R.**, G. K. M. Mustafizur Rahman and M. A. Saleque. 2020. Effect of Industrial Effluents on Rice Growth, Yield and Soil Chemical Properties. *A. J. Soil Sci. and P. Nut*. 5 (4):1-17.

(ii) As *Co-author*

5. Biswas, J. C., M. A. Haque, M. Akter, A. T. M. S. Hossain, F. H. Hossain, M. Z. I. B, A. B. S. Sarker and **M. R. Islam**. 2018. Element composition of the atmospheric depositions in Bangladesh. *J. Environmental Protection*. 9.:948-956.
6. Latif, M.A., **M.R. Islam**, M.Y. Ali and M.A. Saleque. 2005. Validation of the system of rice intensification (SRI) in Bangladesh. *Fields Crops Research* 93: 281-292.
7. Latif, M.A., M.Y. Ali, **M.R. Islam**, M.A. Badsha and M.S. Hasan. 2009. Evaluation of management principles and performance of the system of rice intensification (SRI) in Bangladesh. *Fields Crops Research* 114: 255-262.
8. Miah, M. G., M. N. Bari, **M. R. Islam** and O. Hirota. 2001. Green manuring with *Sesbania* spp. for maintaining rice productivity and soil environment. *Bulletin of the Institute of Tropical Agriculture Kyushu University*. 1 24: 29-42.
9. Biswas, J. C, M. M. Haque, F. H. Khan, **M. R. Islam**, S. S. Dipti, M. Akter and H. U. Ahmed. 2018. Zinc fortification: Effect of Polishing on Parboiled and Unparboiled Rice. *Current Plant Biology*. 16.22-26.

10. Haque, M. M., A. L. Sha, J. C. Biswas, **M. R. Islam**, A. Islam and U. A. Naher. 2019. Effect of Missing Nutrient Elements on Grain Yield of Wet Season Rice in Bangladesh. *American J. Plant Sciences*. 10.631-639.
11. Sarker, I. U., A. Jahan, M. Haque, S. M. M. Islam, N. Ahmed and **M R. Islam**. 2019. Long term effects of integrated plant nutrition system on rice yield, nitrogen dynamics and biochemical properties in soil of rice-rice cropping system. *A. J. Soil Sci. and P. Nut.* 4(4):1-14.
12. Haque, M. M., J. C. Biswas, **M. R. Islam**, A. Islam and M. S. Kabir. 2019. Effect of long-term chemical and organic fertilization on rice productivity, nutrient use efficiency, and balance under a rice-fallow-rice system. *J. Plant Nutri.* DOI: 10.1080/01904167.2019.1659338.
13. Jahan, A., A. Islam, M. I. U. Sarker, M. Iqbal, M. N. ahmed **M R. Islam**. 2020. Nitrogen response of two high yielding rice varieties as influenced by nitrogen levels and growing seasons. *J. Geology, Ecology, and Landscapes*. DOI:10.1080/24749508.2020.1742509.
14. Islam, S.M. M., Y. K. Gaihre, **M. R. Islam**, M. Akter, A. A. Mahmud, U. Singh and B. O. Sander. 2020. Effects of water management on greenhouse gas emissions from farmers' rice fields in Bangladesh. *Science of the Total Environment* 734 (2020) 139382.
15. Sarker, I. U., A. Jahan, U. A. Naher, M. Iqbal, M. A. A. Mamun, J. C. Biswas and **M R. Islam**. 2020. Organic and inorganic amendment of wetland paddy soil for five years: effects on phosphorus fraction dynamics, *Journal of Crop Improvement*, DOI: [10.1080/15427528.2020.1784343](https://doi.org/10.1080/15427528.2020.1784343)
16. Naher, U. A., J. C. Biswas, M Moniruzzaman, F. H. Khan, M. I. U. Sarker, A. Jahan, M. H. R. Hera, B. Hossain, A. Islam, **M. R. Islam** and M. S. Kabir. 2021. Bio-Organic Fertilizer: A green technology to reduce synthetic N and P fertilizer for rice production. *Front. Plant Sci.* 12:602052. doi: 10.3389/fpls.2021.602052
17. Haque, M. M., J. C. Biswas, M. Moniruzzaman, M. B. Hossain and **M. R. Islam**. 2021. Water management and soil amendment for reducing emission factor and global warming potential but improving rice yield. *Paddy and Water Environment*. DOI: <https://doi.org/10.1007/s10333-021-00851-w>

(b) Paper published in other International and National Journal

(i) As *Principal-author*

18. **Islam, M. R.**, A. Islam and G.M. Panaullah. 2003. Management of organic and inorganic fertilizers for sustainable rice production under Boro- T. Aman pattern. *Bangladesh J. Progr. Sci. Tcch.* 1(2): 151-154.
19. **Islam, M.R.**, A.J.M.S. Karim. M. Ibrahim, M.Y. Ali and M.A. Saleque. 2003. Soil acidity, Organic C, phosphorus and exchangeable bases in the profile of haplustept rice soil. *Bangladesh J. Progr. Sci. Tcch.* 1(2): 205-210.
20. **Islam, M.R.**, M. A. Saleque, R. Shaheen, A.B.M.B.U. Pathan and R. Mahmud. 2006. Phosphorus sorption characteristics in the profile of a vertic haplustept rice soil. *Int. J. Sustain. Agril. Tech.* 2(1): 67-72.

21. **Islam, M.R.**, R. Shaheen, R. Mahmud, N. Inoue, A.B.M.B.U. Pathan and M. A. Saleque. 2006. Desorption characteristics of phosphorus of a vertic haplustepte rice soil. J. of Science foundation. 4: (1):1-9.
22. **Islam, M.R.**, R. Shaheen, R. Mahmud, N. Inoue, A.B.M.B.U. Pathan and M. A. Saleque. 2006. Efficacy of some acidic and alkaline reagents to study the fate of sorbed phosphorus in rice soil. J. of Science foundation. 4(1): 53-61.
23. **Islam, M.R.**, M. A. Aziz, M. A. M Miah and M.J. Uddin. 2009. Effect of chook chook brand organic fertilizer on the growth and yield of boro rice in two different AEZ of Bangladesh. Dhaka Univ. J. Bioll. Sci. 18 (1): 15-21.
24. **Islam, M.R.**, T Sultana, M A M Miah, P K Saha and S K Zaman. 2009. Effects of potassium fertilizer on the yield profile of modern rice varieties growth in floodplain soil of Bangladesh. Dhaka Univ. J. Sci. 57 (2): 235-238.
25. **Islam, M.R.**, P K Saha, S K Zmana and M.J. Uddin. 2010. Phosphorus fertilization in inbreed and hybrid rice. Dhaka Univ. J. Bioll. Sci. 19 (2): 181-187.
26. **Islam, M.R.**, G.K.M. Mustafizur Rahman, M. A Saleque and M.J. Uddin. 2017. Effect of Industrial Effluents on Seed Germination and Seedling Growth of Rice. Dhaka Univ. J. Bioll. Sci.26(1): 59-68.
27. **Islam, M.R.**, P. K. Saha, S. K. Zaman and M.J. Uddin. 2019. Performance of waste concern organic fertilizer on the growth and yield of T. Aman rice in two different AEZs of Bangladesh. Dhaka Univ. J. Bioll. Sci. 28 (2): 177-185.

(ii) As Co-author

28. Islam, M. Sh, **M. R. Islam** and Z. U. Ahmed. 1998. Evaluation of nitrogen management based on chlorophyll meter (SPAD) value in modern rice varieties under wet and dry seasons. Bangladesh Agron. J. 8(1 &2):37-45.
29. Saha, P. K., F. Rahman, M. Akter, **R. Islam**, A. T. M. Hossain and M. G. Ali. 2016. Integrated Nutrient Management for Potato-Maize-T. Aman cropping pattern. Bangladesh Rice J. 20 (1):51-58.
30. Iftexharuddaula, K. M., M. S. Hassan, M. J. Islam, M. A. Badshah, **M. R. Islam** and Khaleda Akter. 2001. Genetic evaluation and selection criteria of hybrid rice in irrigated ecosystem of Bangladesh. Pakistan J. of Bio.Sci. 4 (7): 790-792.
31. Iftexharuddaula, K. M., Khaleda Akter, M. K. Bashir and **M. R. Islam**. 2001. Genetic parameters and cluster analysis of panicle traits in irrigated rice. Bangladesh J. Pl. Breed. Genet. 15 (1): 49-55.
32. Saha, P.K., **R. Islam**, M.A.M. Miah and N.I. Bhuiyan. 2003. Integrated nutrient management for rice production in old Meghna Estuarine Floodplain. Bangladesh J. Agril. Res. 28 (4): 521-531.

33. Latif, M.A., M.Y. Ali, **M. R. Islam** and M.L. Rahman. 2004. Effect of three nematicides on ufra disease of rice. J. of Agricultural Education & Tech. 5(1&2). 29-32.32
34. Uddin, M.K., A.Islam, M.A. Aziz, **M.R. Islam** and M.A. Saleque. 2004. Influence of selected soil properties on arsenic adsorption in some soils of Bangladesh. Bangladesh J. Progr. Sci. & Tsch. 2(2): 169-174
35. Latif, M.A., **M.R. Islam**, M.Y. Ali, M. Hossain and M.L. Rahman.2004. Efficacy of three nematicides for the Control of Ufra disease of rice. J. of Agric. Sci. Tech. 5(1&2): 8-12.
36. Pathan, A.B.M.B.U., M.A.M Miah, F. Islam, A.B.M. Z. Hossain and **M.R. Islam**. 2007. Mineral nutrition and yield of sesame in the ganges tidal floodplain soil. Bangladesh J. Agril. Res. 32 (3): 387-391.
37. Badsha, M.A. and **M.R. Islam**. 2008. Influence of integrated nutrients management on growth and yield of BRRI dhan45. Bangladesh Rice J. 13(1): 79-83.
38. Pathan, A.B.M.B.U., **M.R. Islam** M. A. M Miah, M.J. Uddin and M.A.Saleque. 2008. Evaluation of salt tolerant genotypes of boro rice in south-western coastal region of Bangladesh. Dahka Univ. J. Bioll. Sci. 17 (2): 95-101.
39. Shah, A. L. **M.R. Islam**, M. M. Haque, M. Ishaque and M. A. M Miah. 2008. Efficacy of major nutrients in rice production. Bangladesh J. Agril. Res. 33 (3): 639-645.
40. Rahman, F, A..T..M..S. Hossain and **M. R. Islam**. 2009. Nutrient and heavy metal contents in poultry litter. Bangladesh Rice J. 14 (1&2):113-117.
41. Saha, P. K., A. Islam, **M.R. Islam**, M.A. M. Miah, M. A. Saleque and F. Islam. 2010. Productivity of Wheat-Mungbean-T.Aman cropping pattern under different fertilizer management packages. Bangladesh Rice J. 15 (1):49-55.
42. Mahmood, S.F., T. Sultana, M.A.M. Miah, M. A. Siddique and **M. R. Islam**. 2010. Trace elements profile of high yielding varieties of foxtail millets (*Setaria Italia L*,) grown in Bangladesh. Dahka Univ. J. Sci. 58 (1): 101-104.
43. Saha, P. K., **M. R. Islam**, S. K. Zaman, N. I. Bhuiyan and M. A. Saleque. 2012. Phosphorus response and use efficiency of lowland rice at different soil phosphorus levels. Bangladesh Rice J. 16 (1):35-40.
44. Khan, F. H., M Iqbal, M. M. Mozumder, A. Sultana, M. M. Houque, **M. R. Islam**, P. K. Saha and J. C Biswas. 2018. Assessment of NP Composite (NPC) Fertilizer on Boro Rice. Eco-friendly Agril. J. 11(11):135-142.
45. Khan, F. H., M. Adil, M. M. Majumder, A. Sultana, M. Iqbal, M. M. Haque, **M. R. Islam**, M.S. Mian and J. C Biswas. 2018. Updating fertilizer doses through site specific nutrient management for BRRI released rice varieties. Eco-friendly Agril. J. 11 (09): 93-95.

46. Khan, F. H., J. C. Biswas, **M. R. Islam**, S. S. Dipti, M. M. Haque, M. Iqbal, M. Akhter and H. U. Ahmed. 2018. Efficiency of joining agronomic and hereditary bio-fortification of rice with zinc in Bangladesh. *Eco-friendly Agril. J.* 11 (08): 84-87.
47. Khan, F. H., M. Adil, S. Jahan, M. Iqbal, M. M. Majumder, A. Sultana, M. M. Haque, **M.R. Islam**, M. S. Mian and H. U. Ahmed. 2018. Consequence of foliar application of silicon on yield and quality of rice in T. Aman season of Bangladesh. *Eco-friendly Agril. J.* 11 (09): 88-92.
48. Rahman, F, A..T..M..S. Hossain and **M. R. Islam**. 2019. Integrated effects of poultry manure and chemical fertilizer on yield, nutrient balance and economics of wetland rice culture. *Bangladesh Rice J.* 22(2):71-78.
49. M M Haque¹, **M R Islam**, M S Rahman, M A R Sarkar, M AA Mamun, M U Salam and M S Kabir. 2020. Soil Health as Influenced by Fertilizer Management in Rice Based Cropping System. *Bangladesh Rice J.* 24 (2): 121-133, 2020, doi.org/10.3329/brj.v24i2.53452

B. Short Communication-Nil

C. Books

(i) As Principal-author-Nil

(ii) As Co-author

1. Miah, M.A. M., **M. R. Islam**, U. A. Naher, A.T.S.M. Hossain, F. Rahman, H.M. Khaled and F.Islam. 2006. Nutrient Deficiency Symptoms in Rice Plants and its Remedies (Dhan Gasar Pustri Upadanar Obabganita Lakhan O Proticar). Bangladesh Rice Research Institute, Gazipur-1701 and Soil Fertility and Fertilizer Management (SFFP) Project. Khamarbari, Farmgate, Dhaka.

D. Seminar/ Workshop/Symposium Proceedings/Abstracts

(I) International

(i) As Principal-author

1. **Islam, M.R.** and M. A. Saleque. 2006. Extractable Phosphorus Following Fertilizer Application from Rice Soil. 18th World Congress of Soil Science, July 9-15, 2006. Philadelphia, Pennsylvania, USA.p.469

(ii) As Co-author

2. Latif, M., **M.R. Islam** and Y.Ali. 2004. Verification of components of the System of Rice Intensification (SRI) and comparison with best conventional management practices in Bangladesh. 5-7 November 2004. Tsukuba International Congress Center (Epochal Tsukuba) Tsukuba, Ibaraki, Japan.

3. A. Islam, M. A. M. Miah, A.T.M.S. Hossain, **M.R. Islam** and M. N. Hossain. 2006. Efficiency of potash fertilizer application to rice and wheat central and N-W regions of Bangladesh. 22-25 November 2006. Near PAL Auditorium, Punjab Agricultural University, Ludhiana-141004. India
4. M. H. Rashid, J. Timsina, N. Islam, M. A. Ali and M. R. Islam. 2017. Conservation tillage and residue retention under dry seeded rice-maize-mungbean system affected bulk density and soil organic matter. 2nd Conference on Conservation Agriculture for Smallholders (CASH-II). 14-16 February 2017, Mymensingh, Bangladesh

(II) National

(i) As Principal-author

5. **Islam, M.R.** and M. A. Saleque. 2004. Phosphorus Chemistry in wetland Rice Soil Profile of a Vertic Haplustept. BRRI, Thursday Seminar. 01 July, 2004.
6. **Islam, M.R.**, S M M Islam, M N Ahmed and Y K Gaihre. 2018. Effects of fertilizer and water management on greenhouse emissions, rice yield and nitrogen use efficiency. BRRI, Thursday Seminar. 11 October, 2018.

(ii) As Co-author

7. G.M. Panaullah, A. Islam, **M.R. Islam** and M.S. Hossain. 2001. Integrated nutrient management for rice based cropping pattern at Comilla and Habiganj sites. Proc. of OFRD-DAE workshop, 10-12 June, 2001, Bangladesh Agricultural Research Institute, Sylhet, Bangladesh
8. Shah, A. L, M. Haque, M. A. M. Miah, M. Ishaque and **M. R. Islam**. 2007. Efficacy of fertilizer in rice production. BRRI, Thursday Seminar. 12 April, 2007.
9. Saha, P. K., **R. Islam**, F. Rahman and M. A. M Miah. 2007. Response of three BRRI Boro varieties/ lines to added nitrogen at Comilla region. Paper presented at Thursday seminar, BRRI, Gazipur-1701, on May 10, 2007.
10. Haque, M. M., J. C. Biswas, **M. R. Islam**, A. Islam and M S Kabir. Effect of long-term chemical and organic fertilization on rice productivity, nutrient use-efficiency and balance under rice-fallow-rice system. BRRI, Thursday Seminar. 15, November, 2018.

Popular Articles

(i) As Principal-author

11. **Islam, M.R.** 2001. Foundation Chat. Suvarin. Foundation training course (6th batch) for NARS Scientists. Bangladesh Agricultural Research Council (BARC). Bangladesh Academy for Rural Development (BARD). P. 37.

12. **Islam, M.R.** 2003. Quality of Jute and Mesta leaf as a organic manure (Zub sar hisaba pat o mesta patar gunagin-in bangla). Krishibarta. November-December, 2003. p.15.
13. **Islam, M.R.** 2004. Importance of biofertilizer in Agriculture (Krisita Gibanu sarar gurutta-in bangla). Krishibarta. January-February, 2004. p.12.
14. **Islam, M.R.** 2004. Importance of Micronutrients in Agriculture and its uses (Krishita Guno Pustri Upadansumuher (Micronutrients) ar guruta gbng tar babhar-in bangla). Krishibarta. September-October, 2004. p.15.

(Dr. Md. Rafiqul Islam)