

## BIO DATA

1. Name : **Dr. MD. RAFIQUL 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 (Current Charge) and Head  
Bangladesh Rice Research Institute  
Regional Station, Sonagazi, Email: rafiqrri@ yahoo.com
6. Date of Birth : 25<sup>th</sup> November, 1971
7. Nationality : Bangladeshi (by birth)
8. Educational Qualifications :

Degree/ Diploma/ Certificate	Class/ Grade/ Division	University/ Institute/ Board	Year
S.S.C	1 <sup>st</sup>	Rajshahi	1986
H.S.C	1 <sup>st</sup>	Rajshahi	1988
B. Sc. Ag	1 <sup>st</sup>	BAU, Mymensingh	1992
M. S. in Soil Science	1 <sup>st</sup> ( Grade A) GPA-3.58	BSMRAU, Salna, Gazipur	Autumn, 2003
PhD in Soil Science	1 <sup>st</sup> ( Grade A) GPA-4.00	BSMRAU, Salna, Gazipur	Autumn, 2012

9. Field of specialization: Soil Science

10. Additional qualification/Training acquired in Bangladesh and /or abroad

**(a) In Country:**

Organization	Year	Duration		Name of program
		Mos.	Days	
BRRI, Gazipur	1998	1	27	Rice production, communication and office management
BARI	1999	-	05	Soil fertility and fertilizer management
BARD, Comilla	2000- 2001	3	0	Foundation training course for NARS scientists
AIS	2001	-	02	Development Communication
BARC, Dhaka	2004	-	10	Training course on use of manual for fertilizer analysis
BARC, Dhaka	2006	-	02	Use of fertilizer Recommendation Guide-2005

BIRRI & CIMMYT	2006	-	02	Training course on AWhere-ACT & GIS based Bangladesh country Almanac (BCA)
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**(b) Abroad**

Organization	Year	Duration		Name of programme
		Mos.	Days	
AIT, Thailand	2000	1	13	Computer application in irrigation management
IRRI, Philippines	2006	-	12	Two-week rice production course
SHIMADZU, Singapore	2007	0	6	Training on ICP-OES (Handling & Maintenance)

**11. Experience:**

Position	Period		
	From	To	Total Yr/Mo
Graduate Research Assistant	March 1997	Decem. 1997	10 months
Research Fellow	07-01-1998	19-08-1998	7 months
SO (Revenue), Soil Science Division, BIRRI, Comilla	20-08-1998	31-05-2006	7 yrs 9 months
SSO (Revenue), Soil Science Division, BIRRI, Gazipur	01-06-2006	01-05-2010	3 yrs 11 months
PSO (Revenue), BIRRI, Barisal	02-05-2010	14-09-2014	4 yrs 4 months
CSO (Current Charge) (Revenue), BIRRI, Sonagazi	15-09-2014	To date	-

course)

**12. Performance:**

**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.,** K. M. Mustafizur Rahman, A. J. M. Sirajul Karim, M. Giasuddin Miah and M. Abu Saleque. Quality Assessment of Different Industrial Effluents for Irrigation in Agriculture. J. Earth Sci. In Press.

(ii) As Co-author

2. 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.
3. 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.

**(b) Paper published in other International and National Journal**

**(i) As Principal Author**

4. **Islam, M. R.**, A. Islam and G.M. Panauallah. 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.
5. **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.
6. **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.
7. **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 haplustept rice soil. *J. of Science foundation.* 4: (1):1-9.
8. **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.
9. **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. *Dahka Univ. J. Bioll. Sci.* 18 (1): 15-21.
10. **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. *Dahka Univ. J. Sci.* 57 (2): 235-238.
11. **Islam, M.R.**, P K Saha, S K Zmana and M.J. Uddin. 2010. Phosphorus fertilization in inbreed and hybrid rice. *Dahka Univ. J. Bioll. Sci.* 19 (2): 181-187.

(ii) As co-author

12. 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.

13.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.

14.Iftekharuddaula, 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.

15.Iftekharuddaula, K. M., Khaleda Akter, M. K. Bashar and **M. R. Islam**. 2002. Genetic parameters and cluster analysis of panicle traits in irrigated rice. Bangladesh J. Pl. Breed. Genet. 15 (1): 49-55.

16.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.

17.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.

18.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. & Tcch. 2(2): 169-174

19.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.

20.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.

21.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.

22.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.

23.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.

24.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.

25.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.

26. 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.

27. 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.

### **B. Books**

(i) As Principal Author- Nil

(ii) As Co-author

1. Hasan, M.S., M.J. Islam, **M.R. Islam**, K.M. Iftekharuddaula and M.A. Badsha. 2001. Training Manual (Adanick dhan chaser kalacuchul). Bangladesh Rice Research Institute. Regional Station, Sasangacha, Comilla.
2. 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.

### **C. 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. 18<sup>th</sup> 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

## **(II) National**

### **(i) As Principal Author**

4. **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.

### **(ii) As Co-Auther**

5. G.M., 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
6. 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.
7. 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.
8. Miah, M.A.M., **M.R. Islam**, F. Rahman, A.B.M.B.U. Pathan, M.Ishaque and A. Islam 2006. Integrated soil fertility and fertilizer management project. Presented at the regional research extension review and program planning workshop. BARI. Gazipur. 15-16 May 2006.

## **Popular Articles**

### **(i) As Principal Author**

9. **Islam, M.R.** 2001. Foundation Chat. Suvarin. Foundation training course (6<sup>th</sup> batch) for NARS Scientists. Bangladesh Agricultural Research Council (BARC). Bangladesh Academy for Rural Development (BARD). P. 37.
10. **Islam, M.R.** 2003. Quality of Jute and Mesta leaf as a organic manure ( Zub sar hisaba pat o mesta patar gunagun-in bangla). Krishibarta. November-December, 2003. p.15.
11. **Islam, M.R.** 2004. Importance of biofertilizer in Agriculture ( Krisita Gibanu sarar gurutta-in bangla). Krishibarta. January-February, 2004. p.12.
12. **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.

### ***D. Project reports preparation: 3***

Islam, M.J., M.S. Hasan, **M.R. Islam**, K.M. Iftekharuddaula, M.A. Badsha. 2001. Final report on post flood rehabilitation and adaptive research support project. April, 2001. Bangladesh Rice Research Institute. Regional Station, Comilla.

Latif, M. A., **M. R. Islam** and M.Y. Ali. 2004. Evaluation Report on Extension of the System of Rice Intensification (SRI) through Verification (SP#3502). June, 2004. Bangladesh Rice Research Institute. Regional Station, Comilla.

Latif, M. A., M.Y. Ali, **M. R. Islam** and M. Harun-or-Rashid. 2004. Report on improved rice cultivation package for high fertile low lying areas. Poverty Elimination through rice research assistance (PETRRA).2004. Bangladesh Rice Research Institute. Regional Station, Comilla.

#### **E. Participation in Technology Development and Transfer Activities.**

<b>Technology</b>	<b>Present status of adoption</b>	<b>Remarks</b>
Seedling raising and modern rice cultivation program in the farmers field under “Post flood rehabilitation and adaptive research support project” in Comilla region	Farmers of the Comilla region (Barura, Comilla Sadar and Burichang) have adopted the technology of raising healthy seedlings and cultivating modern rice	Participating as a working scientist from BRRI, Comilla
Identification of rice stripe: A newly recorded viral disease in Bangladesh.	Adopted by the Scientists	
Validation of Systems of Rice Intensification (SRI) in Comilla and Sylhet region	Farmers of the Comilla region (Comilla Sadar and Doudkandi) have adopted this technology.	Participating as a working scientist from BRRI, Comilla

#### **F. Any other relevant activities/Information.**

#### **17. Others relevant achievement**

1. Monitoring and evaluation of some field experiments as a member of Regional Variety Evaluation Committee
2. Participate as an expert member in PhD student admission committee
3. Participate as a resource person in Chasabad program which telecast by Radio, Barisal
4. Reviewed research articles
5. Reviewed MS thesis
6. Participate in the training session as a trainer of BS, NGO workers, farmers, seed growers and also extension personnel
7. Play an important role as a committee member of Leaf Color Chart (LCC) research in BRRI
8. Play an important role as a MS research supervisor in Patuakhali Science and

Technology University

9. Assisted analytical works of different Ph. D. and M.S. students attached with the BRRI Soil Science Laboratory
10. Assist the research, administrative and financial management of the head of BRRI R/S, Barisal and Sonagazi since 2012
11. Attended several internal workshop and plays an important role in that workshop
12. Folder preparation for farmers giving practical knowledge about K fertilizer
13. Attended review and action plan meeting for CSWM program area for developing fertilizer management for high yielding rice varieties suitable for different agro-ecological zones of Bangladesh
14. Arrange field day and farmers' meetings to popularize BRRI technology on behalf of BRRI, Regional Station, Barisal and Songazi
15. Soil and plant samples analysis and send report which supplied by Head of the Division and Regional Station Head
17. Soil and plant nutrient related field problem identification and advise the farmers to solve the problem
18. Attended national fertilizer related committee meeting in BARC

#### **G. Outstanding achievement**

- 1 Received BARC Chairman (2<sup>nd</sup> Position) in foundation training course (6<sup>th</sup> batch) for NARS Scientist
- 2 First identified a rice viral disease namely rice stripe
- 3 Received a certificate from DG (BRRI) for outstanding contribution to innovation in rice research suitable for the resource poor farmers of Bangladesh

**(MD. RAFIQUL ISLAM)**

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Bangladesh Rice Research Institute  
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