Curriculum Vitae

of

MD. MOFAZZEL HOSSAIN
Chief Scientific Officer (CSO)
Entomology Division, BRRI

1. Name : MD. MOFAZZEL HOSSAIN
2. Father's name : Late Reaz Uddin
3. Mother's name : Late Amena Khatoon
4. Gender : Male
5. Address:

(a) Permanent Address:

Village: Kandipara, Ward No.: 7,
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(b) Present Address:
Chief Scientific Officer, Entomology Division,
Bangladesh Rice Research Institute (BRRI), Gazipur-1701.
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6. Institution : Bangladesh Rice Research Institute (BRRI),
7. Date of joining in the present position: 21 November 2019
8. Date of first joining in service: 20th August 1998
(Joining merit 7th out of 32 in a recruited batch)
9. Date of Birth and age : 01st January, 1970; 51 Year and 08 Months
10. Language : Bengali (mother tongue); English (fluent)

11. Educational Qualification:

(Certificates of educational career are enclosed herewith in **Attachment-1)**

Degree/ Diploma/ Certificate	Class/ Grade / Division	University/ Institute/ Board	Year	Remarks
Ph D (Entomology)	First Class (Awarded)	Bangladesh Agricultural University (BAU)	2017	Satisfactory
M.S. in Entomology	First Class	Bangladesh Agricultural University (BAU)	1997	(Merit position 3rd out of 12 students)
B.Sc. Ag	First Class	Bangladesh Agricultural University (BAU)	1992 (held on December 1995)	(Merit position 23 out of 448 students)
H.S.C (Science)	First division	Notre Dame College, Dhaka, Dhaka Board	1988	-
S.S.C (Science)	First division	Tejgaon Polytechnic Govt. high School, Tejgaon, Dhaka Board	1986	-

12. Field of specialization: Entomology-

a. Rodent pest management in rice ecosystem (Pre and post harvest environment)
b. Rice Gallmidge and Stem borer management both in inbreed and hybrid rice and
c. Rice planthopper especially Brown planthopper management in field rice.

13. Outstanding Achievement

A. Outstanding/ Award Received:

1. Received Plagues and Incentive as **''Most Out-standing Performance Award, 2016 for PI, and for Country''** from AFACI secretariat for successful implementation of project activities based on the following criteria- Country PI's personal assessment (40%), outcomes (40%), program leader (20%) and coordination with AFACI Secretariat (α).

2. Selected again and received plagues and incentive as **''Most Out-standing Performance Award, 2017 for PI** from AFACI secretariat for successful implementation of the project activities in Bangladesh.

3. Selected again for the third time and going to be received plagues and incentive as **''Out-standing Performance Award, 2018 for PI''** from AFACI secretariat for successful implementation of the project activities in Bangladesh.

B. **Notable Research Contribution:** Worked as Principal Investigator (PI) and Co-PI of the following International and National Project:

International:

a) Ecologically-based rodent management for diversified rice-based cropping system in Bangladesh (**Co-PI**). ----PETRRA-NRI(DFID) Funded Project)

b) Collaboration Network for the Management of Migratory Rice Planthoppers and Associated Virus Diseases of Rice in Asia (**Principal Investigator**). (On-going **AFACI** Funded Project).

National:

c) Varietal screening and documentation of Gall midge resistance sources at greenhouse condition (PI). (Funded by MIAD Project)

d) Molecular identification of rice gall midge biotype (s) in Bangladesh (Co-PI) (**BARC**- Core Funded Project)

e) Selection and Application of BPH Management Technologies in Sirajgnaj (CI). (Completed, **KGF** Funded Project)

On going Project:

f) Identification of Resistant Sources against Gallmidge and Development of Tolerant Advanced Breeding Lines (PID: TF-57_C-17) (**KGF** Funded Project- On going for PCR preparation)

g) Eco-friendly Rodent Management Through Owl Conservation (PID:087) (PIU-BARC, PBRG, NATP2 funded project- On going for PCR Submission)

C. Performed other related activities:

i) Participated technology transfer activities as a member of SPDP program

ii) Worked as resource speaker of BRRI, BARC training program.

D. **Foundation Training Course** : (for the National Agricultural Research System scientists (1st Batch)**:** Award & Certificate received by obtaining **4th position**.

14.1. Professional Training:

(a) In Country:

Organization	Year	Duration		Name of the Program
		Months	Days	
BRRI-HQ	1998	2		Rice production, Communication and Office Management
Proshika	1999	-	3	Arthropod Sampling
BRRI-HQ	1999	-	9	Arthropod Taxonomy
BARD	1999	3	15	Foundation Training
Motor Driving & Mechanics Training School, Comilla	1999	-	20	Motor Driving with License
BRRI-HQ	2001	-	25	Hybrid Rice Technology
BRRI R/S, Comilla & BRRI-HQ	2003	-	8	Success Case Replication (SCR)
BRRI-HQ	2003	-	2	Arthropod Taxonomy
Bangladesh Institute of Administration and Management Foundation (BIAM), Dhaka	2009	-	6	Financial Management and Public Procurement Training
NATP Saltol-Sub1 Project-Plant Breeding Div., BRRI	2012	-	6	Theoretical and Applied Molecular Breeding
BRAC CDM, Rajendrapur Funded by KGF	2013		5	Research Proposal Preparation and Scientific Report Writing
BRFD Project, Biotechnology Division, BRRI, Gazipur-1701	2013	-	6	Genetic Data Analysis Software
BARC, Dhaka	2014		2	Phytosanitary Measures and Food Safety Issues in Bangladesh
APCTT and BARC Dhaka, Bangladesh	2014	-	3	Biological Control of Agricultural Pests and Diseases
BRRI, Bangladesh	2018			Innovation in Public Service
CIMMYT in Collaboration with DAE, BWMRI and USAID, Chuadanga	2019		3	Fighting Back against Fall Armyworm: Integrated Pest Management Solution Training"
ICT, USAID	2019		2	Workshop on Innovation Project Design
DICT,	2019			Bangladesh Training Course on e-Nothi
BRRI	2020			Bangladesh Service Process Simplification (SPS)

(b) Abroad:

Country	Year	Duration		Name of Programme
		Months	Days	
Farming Systems and Soil Resources Institute, UPLB, Philippines	2000	1	12	Integrated Pest Management in Farming Systems

International Rice Research Institute (IRRI)	2002	-	26	Integrated Pest Management Course
Discovery Center, CSIRO, Canberra	2003	-	5	Second International Conference on Rodent Biology and Management

14.2. Job History / Work Experience:

Position	Period			Locations
	From	To	Total (Yr/Mo/days)	
SO (Revenue)	20-08-1998	31-05-2006	7 Yr 7 Month 11 Days	Entomology Div.,
SSO (Revenue)	01-06-2006	Contd.	8 Yr 5 Month 25 Days	Entomology Div.,
PSO (Revenue)	14-12-2014	30-04-2018	3 Yr 4 Month 16 Days	Entomology Div,
PSO & Head	01-05-2018	20-11-2019	1 Yr 6 Month 19 Days	BRRI R/S, Sirajganj
CSO & Head	21-11-2019	15-07-2021	1 Yr 7 Month 24 Days	BRRI R/S, Sirajganj
CSO & Head	29-07-2019	To Date	On deputation	Entomology Div., BRRI

14.3 Professional Skills:

- Served BRRI Regional Stations-Sirajganj (from 2018 to 2021)

(Performed Scientific & extension work, administrative and financial management) 3

- Maintained a harmonic relation and cooperation with different Govt. and Non-Govt. organizations
- Paper presented in different national and international seminars and workshops • Act as resource speaker in different training programs for officers, staff and farmers throughout the country organized by BMDA, DAE, BRRI, NATA, BARD, Rajshahi Unnayan Project, NDP, Practical Action, and
- Research program development, execution and reporting of research results.
- Publish research articles in different national and international reputed journals and proceedings
- Organized many training programs, field day and workshop related to rice production
- Developed a good number of Integrated pest management technologies for safe rice cultivation
- Operating skills for extracting insect DNA using molecular instruments in Plant Pathology, Biotechnology and plant breeding division of BRRI.
- Guidance of divisional scientists, field and laboratory staff.

- Guidance of different kind of students came from national and private universities.

- Different national and international Project management, implementation writing of project completion report.
- Data analyses and scientific report writing.
- Supervise graduate students in the field of pest management.
- Scientific paper or article reviewing.
- Frequent farmers' field visit for identifying field problems and providing suggestions for remedy.

15. Research Achievement

i. Technology Developed

Sl. no.	Technology developed	How Country/Farmer/ User will be benefited
1	Management of stem borer in hybrid rice applying **one or two recommended dose of Basudin 10G at maximum tillering or Panicle initiation stage** produced higher yield and gave maximum protection against stem borer in hybrid rice	• The technology will help to protect the hybrid rice from stem borer infestation below the EIL as well as increases yield
2	Use of **paddy as bait in live/snap traps** for better trapping of rats in rice field.	• Paddy as a bait can attract more rats than the other baits like coconut, dry fish, snails etc. • Farmers can control rats more effectively by using paddy in traps.
3	Development of **Gallmidge rearing** and **varietal screening technique** at greenhouse condition.	• Screening activities will be possible at confined condition. • Screening time reduced (Greenhouse screening requires only one month whereas field screening takes about six month). • Resistance breeding will be facilitated.
4	Identification of **BRRI dhan33** as gallmidge resistant and **BRRI dhan49** as susceptible check among the BRRI released T. aman varieties.	• BRRI dhan33 can be used in screening programme as resistant check. • Besides, farmers in gall midge endemic areas can cultivate this variety and protect their crop from GM infestation. • BRRI dhan49 is used as susceptible check for screening program against gall midge.

5	Development of **double nozzle devices** for knapsack sprayer to control brown planthopper (BPH) and white-backed planthopper (WBPH) in planthopper endemic areas of Tarash, Sirajgonj.	• The technology will help to protect the Boro and T. Aman rice from planthopper (BPH, WBPH) infestation. • The farmers in the project implementing areas are using this technology to combat these devastating pests and thereby increased their crop yield.
6	বাদামী গাছ ফড়িং এবং পামরী পোকা দমনে ভেষজ নির্যাসের ব্যবহার	ক) মেহগনি বীজের কার্ণেলের নির্যাস ১:৫ অনুপাতে ব্যবহার করে পূর্ণবয়স্ক বাদামী গাছ ফড়িং এবং পামরী পোকা যথাক্রমে শতকরা ৮৪ এবং ৬৩ ভাগ দমন করা সম্ভব। খ) মহগনি তেল ও পানির দ্রবন পামরী পোকা ও বাদামী গাছ ফড়িং দমনে অত্যন্ড় কার্যকর পরিলক্ষিত হয়েছে।

(ii) No. of research program

a) Developed

1. Survey of rice pests in selected AEZs.
2. Insect pests and natural enemies in light traps
3. Pest monitoring in BRRI Farm, Gazipur.
4. Rice pest incidence in wheat growing areas of Bangladesh.
5. Studies on ecology and management of rice gall midge.
6. Biology of rice gall midge
7. Management of migratory rice planthoppers.
8. Test of different insecticides against major insect pests-
    a) Rice hispa
    b) Brown planthopper
    c) White-backed planthopper
    d) Yellow stemborer
9. Screenings of IRSBN 2007 materials against rice stem borer.
10. Effect of selected botanicals on major rice pests -
    - Test of mahogany oil against rice hispa
    - Test of mahogany oil against BPH
    - Test of neem oil against rice hispa and BPH
11. Screening of rice Germplasm against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper
    c) Green leafhopper
    d) Rice gall midge

12. Screening of F_2 population against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper

13. Evaluation of Advance lines for resistance against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper
    c) Green leafhopper

14. Evaluation of BRRI released varieties against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper
    c) Green leafhopper

15. Validation of BRRI recommended practices for the management of major rice insect pests-
    a) Brown planthopper
    b) Yellow stemborer

16. Characterization of 'hot spots' of Brown planthopper.

17. Evaluation of insecticidal management of yellow stem borer practiced by farmers.

18. Molecular identification of gall midge biotype(s) in Bangladesh.

19. Responses of different BPH populations to differential rice varieties.

20. Selection and Application of BPH Management Technologies in Sirajgonj.

21. Construction of epidemiology information interchange system for migratory disease and insect pests of rice in Asia.

22. Pests and natural enemies survey and monitoring in Gopalganj, Pirojpur and Bagerhat (Integrated Agricultural Project for Gopalganj, Pirojpur and Bagerhat)

23. Studies on the biology of green mirid bug.

24. Relationship between gall midge damage and yield loss.

25. Screening of germplasm materials for resistant sources against gall midge (GM)

26. Screening of F_2 population against gall midge (GM)

Stored grain pest management

27. Test of different botanicals against stored grain insect pest

28. Effect of storage containers on the development of stored grain insect pests

29. Varietal reaction of some BRRI varieties against different stored grain insect pests

Vertebrate pest management

30. Assessment of rat damage in MV rice

31. Preferences of field rats for modern rice varieties

32. Collection and documentation of farmers' indigenous practices for controlling rodent in rice agro-ecosystem

33. Rice field rat management by using trap barrier system (TBS)

b) *Supervised*

1. Insect pests and natural enemies in light traps
2. Pest monitoring in BRRI Farm, Gazipur.
3. Rice pest incidence in wheat growing areas of Bangladesh.
4. Studies on ecology and management of rice gall midge.
5. Biology of rice gall midge
6. Management of migratory rice planthoppers.
7. Test of different insecticides against major insect pests-
   a) Rice hispa
   b) Brown planthopper
   c) White-backed planthopper
   d) Yellow stemborer
8. Screenings of IRSBN 2007 materials against Stem borer of rice.
9. Effect of selected botanicals on major rice pests -
   a) Rice hispa
   b) Brown planthopper
   c) Rice bug
10. Screening of rice Germplasm against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper
    c) Green leafhopper
11. Screening of F_2 population against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper
    c) Green leafhopper
12. Evaluation of Advance lines for resistance against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper
    c) Green leafhopper
13. Evaluation of BRRI released varieties against major insect pests-
    a) Brown planthopper
    b) White-backed planthopper
    c) Green leafhopper
14. Validation of BRRI recommended practices for the management of major rice insect pests-

c) Brown planthopper
d) Yellow stemborer

15. Identification of 'hot spots' of rice gall midge.

16. Effect of different control methods on Yellow stemborer-

a) Egg mass destruction
b) Regular spray at pesticides
c) Spray at ETL
d) Pesticide application

17. Evaluation of insecticidal management of yellow stem borer practiced by farmers

18. Molecular identification of gall midge biotype(s) in Bangladesh

19. Responses of different BPH populations to differential rice varieties.

20. Selection and Application of BPH Management Technologies in Sirajgonj.

21. Construction of epidemiology information interchange system for migratory disease and insect pests of rice in Asia.

22. Pests and natural enemies survey and monitoring in Gopalganj, Pirojpur and Bagerhat (Integrated Agricultural Project for Gopalganj, Pirojpur and Bagerhat)

23. Studies on the biology of green mirid bug.

24. Relationship between gall midge damage and yield loss.

25. Screening of germplasm materials for resistant sources against gall midge (GM)

26. Screening of F_2 population against gall midge (GM)

Stored grain pest management

27. Test of different botanicals against stored grain insect pest

28. Effect of storage containers on the development of stored grain insect pests

29. Varietal reaction of some BRRI varieties against different stored grain insect pests

Vertebrate pest management

30. Assessment of rat damage in MV rice

31. Preferences of field rats for modern rice varieties

32. Collection and documentation of farmers' indigenous practices for controlling rodent in rice agro-ecosystem

33. Rice field rat management by using trap barrier system (TBS)

c) *Executed*

1. Survey of rice pests in selected AEZs.

2. Insect pests and natural enemies in light traps

3. Pest diversity in different cropping systems-
   a)Yellow stemborer
   b) Green leafhopper
   b) Brown planthopper
   c) White-backed planthopper

4. Rice pest incidence in wheat growing areas of Bangladesh.

5. Studies on ecology and management of rice gallmidge.

6. Biology of rice gallmidge

7. Management of migratory rice planthoppers.

8. Test of different insecticides against major insect pests-

   a) Rice hispa
   b) Brown planthopper
   c) White-backed planthopper
   d) Yellow stemborer

9. Effect of selected botanicals on major rice pests -
   a) Rice hispa
   b) Brown planthopper
   c) Rice bug

   Evaluation of insecticidal management of yellow stem borer practiced by farmers
   - Test of mahogany oil against rice hispa
   - Test of mahogany oil against BPH
   - Test of botanical oil against rice hispa and BPH

10. Validation of BRRI recommended practices for the management of major rice insect pests-
    a) Brown planthopper
    b) Yellow stemborer

11. Identification of 'hot spots' of rice gallmidge.

12. Effect of different control methods on Yellow stemborer-

    a) Egg mass destruction
    b) Regular spray at pesticides
    c) Spray at ETL
    b) Pesticide application
    b) Brown planthopper

13. Screenings of IRSBN 2007 materials against Stem borer of rice.

17. Evaluation of insecticidal management of yellow stem borer practiced by farmers

18. Molecular identification of gall midge biotype(s) in Bangladesh

19. Responses of different BPH populations to differential rice varieties.

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21. Construction of epidemiology information interchange system for migratory disease and insect pests of rice in Asia.

22. Screening of germplasm materials for resistant sources against gall midge (GM)

23. Screening of F_2 population against gall midge (GM)

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Vertebrate pest management

27. Assessment of rat damage in MV rice

28. Preferences of field rats for modern rice varieties

29. Collection and documentation of farmers' indigenous practices for controlling rodent in rice agro-ecosystem

30. Rice field rat management by using trap barrier system (TBS)

16. Publication (SO to CSO):

A. Full paper as the principal author:

a) **Hossain, M.M**., M. Shahjahan, A.K.M. Azad-ud-doula Prodhan, M. Sirajul Islam and M. A. Begum. 2002. Study of Anatomical Characters in Relation to Resistance Against Brinjal Shoot and Fruit Borer. Pakistan Journal of Biological Science 5(6): 672-678.

b) **Hossain, M.M**., M. Shahjahan, M. Mosaddeque Hossain and M. N. Bari. 2002. Chlorophyll contents of brinjal plants influencing the resistance and susceptibility to brinjal shoot and fruit borer, *Leucinodes orbonalis* Guenee. Pakistan Journal of Biological Science 5(8): 825-829.

c) **Hossain, M.M**., M. Shahjahan, M. Abdus Salam and M. A. Begum. 2002. Screening Some Brinjal Varieties and Lines Against Brinjal Shoot and Fruit Borer, *Leucinodes orbonalis* Guenee. Pakistan Journal of Biological Science 5(10): 1032-1040.

B. Full paper as a co-author:

a) Begum, M.A., M. Jahan, M.N.Bari, **M.M. Hossain** and N. Afsana. 2002. Potentiality of *Micraspis discolor* (F.) as a bio-control agent of *Nilaparvata lugens* (Stal). On Line Journal of Biological Sciences 2(9): 630-632.

b) Islam, M.N. A.T.M. Hasanuzzaman, **M.M. Hossain** and A.T.M.F. Islam. 2002. Response of Radiation Induced Jute (*Corchorus olitorius* L.) Mutants Against Jute Stem Weevil, *Apion corchori* Marshall. Pakistan Journal of Biological Science 5(11): 1173-1175.

c) Kamal, N.Q. and **M.M. Hossain**. 2003. Comparison of different baits to attract rats to traps in rice fields in Bangladesh. pp.281-283. *In:* **Rat, Mice and People: Rodent Biology and Management** edited by Grant R. Singleton, Lyn A. Hinds, Charles J. Krebs and Dove M. Pratt. CSIRO Discovery Centre, Canberra, Australia. 564P.

d) Mannan, M.A., A. Begum, M.M. Rahman and **M.M. Hossain**. 2003. Screening of Local and Exotic Brinjal Varieties/Cultivars for Resistance to Brinjal Shoot and Fruit Borer, *Leucinodes orbonalis* Guen. Pakistan Journal of Biological Science 6(5): 488-492.

e) Khanam, M.R., M.J. Abedin Mian, M.N. Bari, **M.M. Hossain** and M.J. Uddin. 2003. Effect of ionic concentration on ion sorption behavior in five soil series of Bangladesh. J. Asiat. Soc. Bangladesh, Sci., 29(1): 121-132.

f) Rashid, M.M., M.Z. Alam, **M.M. Hossain**, M. Ibrahim and M.H. Kabir. 2003. Extent of Leaf Damage in Guava Twigs of Different Strata and Different Leaf Position of Twig by Spiraling Whitefly, *Aleurodicus dispersus*. Pakistan Journal of Biological Science 6(1): 57-60.

g) Rashid, M.M., **M.M. Hossain**, M.Z. Alam, M. Ibrahim and M.K.A. Bhuiyan. 2003. Seasonal Aboundance and Comtrol of Spriraling Whitefly, *Aleurodicus dispersus* Russel on guava. Pakistan Journal of Biological Science 6(24): 2050-2053.

h) Rahman, S., M.B. Meah, I. Hossain, M. Mosaddeque Hossain and **M. Mofazzel Hossain**. 2004. Screening of different wheat genotypes for leaf spot severity, yield and yield contributing characters. Bangladesh J. Seed Sci. and Tech. 8(1&2): 133-139.

i) Islam, Z., **M.M. Hossain**, T. Chancellor, N. Ahmed, M. Hasan and M. Haq. 2010. Organic Rice Cropping in Bangladesh: Is it a Sustainable Alternative to Conventional Practice! J. Environ. Sci. & Natural Resources, 3(1): 233-238. ISSN I999-7361.

j) Islam, Z., T. Chancellor, A. Rahman, K.L Heong, N. Ahmed, M H.K Choudhury, M. **Mofazzel Hossain**, M. Mosaddeque Hossain, Z. Hossain, S. R. Das, M. Hasan and M. Haq. 2010. Productivity of Ecological Organic and Conventional rice - Cropping Systems in Bangladesh. J. Environ. Sci. & Natural Resources, 3(2): 39-49. ISSN I999-7361.

k) Kabir MS., MU Salam, A Chowdhury, NMF Rahman, KM Iftekharuddaula, MS Rahman, MH Rashid, SS Dipti, A Islam, MA Latif, AKMS Islam, **MM Hossain**, B Nessa, TH Ansari, MA Ali, and JK Biswas. 2015. Rice Vision for Bangladesh: 2050 and Beyond. Bangladesh Rice J. 19 (2): 1-18.

C. Seminar/Workshop/Symposium Proceedings at the Co- author (International):

a. Belmain, S., Aplin K.P., Azad A.K., Bachchu M.A.A., Baker A., Haque M.S., Harun M., Hasanuzzaman A.T.M., Hossain **M.M. Hossain** M.M., Hoque A., Islam A.M., Islam M.S., Kadri A.I., Kamal A.Q., Meyer A., Mian Y., Mohammad N., Roy R., Shafali R.B., and Singleton G.R. **2005**. ***Ecologically-Based Rodent Management for Diversified Rice-Based Cropping Systems in Bangladesh: Final Technical report 1 April 2002- 31 March 2005*** to Department of International Development, UK, Project No. R 8184, Crop Protection Program. Chatham Maritime, Natural Resources Institute, University of Greenwich.

b. Rabbi, M.F., Md. Mofazzel Hossain. 2012. Expert Workshop - Collaboration Network for the Management of Migratory Rice Planthoppers and Associated Virus Diseases of Rice in Asia. Pp. 199-230. *In:* Report on Expert Workshop on the collaboration network for the management of migratory rice planthopper and associated virus of rice in Asia. 25-29 June2012. Rural Development Administration (RDA), National Academy of Agricultural Science. AFACI-VAAS, Vietnam. 270P.

c. Rabbi, M.F. and **M.M. Hossain**. 2013. Collaboration Network for the Management of Migratory Rice Planthoppers and Associated Virus Diseases of Rice in Asia. Pp. 39-63. *In:* AFACI IPM Project Final Report. 28 Oct. – 1 Nov., 2013. Rural Development Administration (RDA), National Academy of Agricultural Science. AFACI-NAFRI, Lao PDR. Monogram No. 11-1390802-000731-01. ISBN: 978-89-480-2273-5 93520. P308.

d. Rabbi, M.F. and **M.M. Hossain**. 2014. Collaboration Network for the Management of Migratory Rice Planthoppers and Associated Virus Diseases of Rice in Asia. Pp. 23-48. *In:* [AFACI] Expert workshop on Construction of Epidemiology Information Interchange System for Migratory Disease and Insect Pest in Asia. 14-18 Oct., 2014.

Rural Development Azdministration (RDA), Korea. Monogram No. 11-1390802-000886-01. P201.

D. Seminar/Workshop/Symposium Proceedings as a co-author (National):

a) Islam, Z., N. Ahmed, M. Mosaddeque Hossain and **M.M. Hossain**. 2001. Arthropod communities in fields under organic and conventional systems of rice cultivation in Bangladesh: a case study. pp. 19-28. *In:* Pest and Natural Enemy Interactions In Low Input Rice Cropping Systems (Edited by Z. Islam and T.C.B. Chancellor.) Proceedings of the Annual Review and Planning Workshop held on 6th February 2001 at Proshika Bhaban, Mirpur, Dhaka. P. 38.

b) Kamal, N.Q., N. Ahmed, M. M. Hossain, **M. M. Hossain**, M.A. Begum, M.N. Bari, N. Afsana and N.A. Kohinur. 2003. Emerging Technologies to Combat Rice Pest. Paper presented at 20th National Workshop on Rice Research and Extension in Bangladesh at BRRI held on 22-26 February 2003 organized by BRRI and DAE (Presented).

c) Kamal, N.Q., S. Belmain, K.P Aplin, G. Singleton, A. Meyer, M. Harun, M.A.A. Bacchu, S.M. Islam, M. Mohammad, **M.M. Hossain**, and Y. Mian. 2004. Environment friendly techniques to pest management- Ecologically-Based Rodent Management for Diversified Rice-Based Cropping Systems. Pp. 172-186. *In*: The PETRRA Proceedings of Technology Development Workshop funded by DFID. Organized by PETRRA-IRRI and BRRI. BRRI Auditorium, Gazipur. 23-24 May 2004. P338.

d) Kamal, N.Q., N. Ahmed, M. M. Hossain, **M. M. Hossain**, M.A. Begum, M.N. Bari, N. Afsana and N.A. Kohinur. 2004. Emerging Technologies to Combat Rice Pest. Paper presented at 20th National Workshop on Rice Research and Extension in Bangladesh at BRRI held on 19-21 April 2004 organized by BRRI and DAE

E. Short Communication as a co-author:

a) Islam, Z. and **M.M Hossain**. 2003. Response of rice plants to rat damage at the reproductive phase. IRRN. Vol. 28(1): 45-46.

b) Islam, Z. and **M.M. Hossain**. 2003. Control of rats at the ripening stage of a rice crop. IRRN. Vol. 28(1): 49-50.

F. Abstracts:

Islam, Z., Tim Chancellor, M. Anisur Rahman, M. H. K. Choudhurl, M. Mosaddeque Hossain, **M. Mofazzel Hossain**, K. L. Heong, A. Polaszek and A.T. Barrion. 2005. Intensive rice cropping in Bangladesh: Is it sustainable from an insect pest perspective? The Entomological Society of Ontario, 142nd Annual Meeting

G. Thursday Seminar:

Management of Rats in Rice- Paper presented at the BRRI Thursday Seminar on 08-04-04 at the BRRI Auditorium (Ref: S-255/02/4838(27) dated on 03.04.2004- Enclosed)

H. Popular Articles

কৃষিবিদ মো: মোফাজ্জল হোসেন এবং কৃষিবিদ মাইনুল হক। ২০০৫. ইঁদুরের ক্ষয়ক্ষতি ও দমন পদ্ধতি। কৃষিকথা/আশ্বিন, ১৪১২, পৃষ্ঠা নং ২০৪ -২০৫।

I. Thesis

MS 2003. Dissertation title: Varietal Resistance in Brinjal Shoot and Fruit Borer, *Leucinodes orbonalis* Guenee and its Relation to plant Characters

PhD 2017. Dissertation title: Studies on biotype (s) of rice brown planthopper, *Nilaparvata lugens* (Stal) in Bangladesh

J. Students Supervised:

Thesis 1. Title: Onion Shoot Development Capacity of Rice Gall Midge, *Orseolia oryzae* (Wood-Mason) on Resistant and Susceptible Varieties.

Submitted by **Monir Khatun,** ID: 11109056
Bachelor of Science in Agriculture (BSAg)
College of Agricultural Sciences (CAS)
International University of Business Agriculture and Technology

Thesis 2. Title: Biological Control of BPH in Rice - a review report

Submitted by **Rana Parvez,** ID: 11109085
Bachelor of Science in Agriculture (BSAg)
College of Agricultural Sciences (CAS)
International University of Business Agriculture and Technology

Thesis 3. Title: Incidence of insect pest in rice field at Sirajganj

Submitted by Marzia Alam, ID: 17109059
Bachelor of Science in Agriculture (BSAg)
College of Agricultural Sciences (CAS)
International University of Business Agriculture and Technology

Thesis 4 Title: Study on the Incidence of Rat Attack and Their Management in Rice Field.

Submitted by **Md. Shahadot Hossain, ID# 16309016**
Bachelor of Science in Agriculture (BSAg)
College of Agricultural Sciences (CAS)
International University of Business Agriculture and Technology

Thesis 4 Title: Study on incidence pattern of rice insect pest and their management in Boro season, BRRI Regional Station at Sirajganj

Submitted by **Mridula Mahbub, ID# 17209019**
Bachelor of Science in Agriculture (BSAg)
College of Agricultural Sciences (CAS)

17. Relevant activities and achievement

A. Participation in technology transfer systems:

(a) Radio Talk:

L) eðl x 3469 a¡¢lM-18/4/2001 ®cn Bj¡l j¡¢V Bj¡l x BEn ®j±p¤-j f¡jl£ J j¡Sl¡ ®f¡L¡l BH²jZ J fË¢aL¡lz fËQ¡l a¡¢lM x 29/4/2001

M) eðl x 3512 a¡¢lM-24/4/2001 ®cn Bj¡l j¡¢V Bj¡l x BEn ®j±p¤-j r¢aLl ®f¡L¡ cj-e L£Ve¡nL z fËQ¡l a¡¢lM x 11/5/2001

N) eðl x 3528 a¡¢lM-25/4/2001 ®cn Bj¡l j¡¢V Bj¡l x BEn ®j±p¤-j f¡jl£ J j¡Sl¡ ®f¡L¡l BH²jZ J fË¢aL¡lz fËQ¡l a¡¢lM x 13/5/2001

O)) eðl x 4112 a¡¢lM-30/7/2001 ®cn Bj¡l j¡¢V Bj¡l x ®l¡f¡ Bje d¡e ®r-a f¡jl£ ®f¡L¡, Q¤wN£ ®f¡L¡ J f¡a¡ ®j¡s¡-e¡ ®f¡L¡ cje hÉhÙÛfe¡z fËQ¡l a¡¢lM x 7/9/2001

P) eðl x 2176 a¡¢lM-29/9/2003 ®cn Bj¡l j¡¢V Bj¡l x Bje d¡-e Cc¤-ll BH²jZ J fË¢aL¡lz fËQ¡l a¡¢lM x 24/10/2003

Q) eðl x 2603 a¡¢lM-6/1/2004 ®cn Bj¡l j¡¢V Bj¡l x g¤m -g¡V¡l B-N ®h-l¡ d¡-e fÐd¡l fÐd¡e ®f¡L¡l BH²jZ J fË¢aL¡lz fËQ¡l a¡¢lM x 28/1/2004

(b) Supervising ARD and Entomological Technology dissemination activities

i) Seed production and Dissemination Programme (SPDP) in Boro/2001, T. Aman/200 and Boro/2005 seasons.
ii) Popularizing BRRI approved LCC, Direct Wet Seeded Rice (DWSR) using Drum Seeder in SPDP programme during Boro/2005 season.
iii) Placement of Straw tepee (one tepee/2.5 m^2) in rice field to provide shelter for natural enemies like spider.

B. Resource person in training programme:

i) Invitation to take part as a resource person in the 1-Month Rice Production Training Course on the topic of "Identification of Plant and grain suckers of rice (Skill)" (Copy enclosed)

ii) Invitation to take part as a resource person in the 1-Week Rice Production Training Course on the topic of "Vertebrate pest and their control management".(Copy enclosed)

iii) Invitation to take part as a resource person in the 3-days long "Quality Seed Production and Storage Techonology" Training Course for the DAE Officials on the topic of "Infestation of insect pest in rice seeds at field and seed storage and their management".(Copy enclosed)

C. Attended in Rat Campaign Workshop

i) Nominated as a rat control Specialist from BRRI to attend the Rat control Campaign/ 2004 at the office of Additional Director, DAE, Mymensingh Region, Mymensingh. (BRRI Receive no. 6617 date: 31-8-04) – Copy enclosed.

ii) Nominated as a rat control Specialist from BRRI to attend the Rat control Campaign/ 2005 at the office of Additional Director, DAE, Mymensingh Region, Mymensingh. (BRRI Receive no. 7850 date: 09-10-05)- Copy enclosed.

iii) Certificate and Acknowledgement provided by PETRRA (1999-2004) for working in the Sub project of "Ecologically based Rodent Management".

D. In country Seminar/Workshop/Other:

Sl. No	Title	Start Date	End Date	Duration	Institution	Funding Source
a.	Midterm Review and planning workshop on " Pest and Natural Interaction in low input rice cropping Systems.	08-02-00	--	1 day	Proshika Bhaban, Mirpur, Dhaka	DFID
b.	Follow-up workshop of Foundation Courses for NARS Scientists	24-10-03	26-10-03	3 days	BARD, Comilla	BARC-ARMP
c.	Planning and Evaluation workshop of PETRRA Project	11/05/03	13/05/03	3 days	Proshika	PETRRA
d.	Review Workshop on Ecologically Based Rodent Management	24/07/03	-	1 day	BARD	Sub-Project no. 3002
e.	Management of Rats in Rice-Paper presented at the BRRI Thursday Seminar	08-04-04	-	-	BRRI Auditorium	-
f.	Emerging Technologies to combat Rice Pests. In: Twentieth National Workshop on Rice Research and Extension in Bangladesh	19-04-04	21-04-04	3 days	BRRI Auditorium	BRRI-DAE
g.	Technology Development Workshop of PETRRA-IRRI and BRRI	23-05-04	24-05-04	1 day	BRRI Auditorium	PETRRA
h	Experience with Direct WeSeeded Rice using Drum Seeder	20-06-05	21-06-05	2 days	BRRI Auditorium	BRRI-IRRI-DAE
i	Project Inception Workshop	26-10-11	-	1 day	Tarash, Sirajgonj	KGF-DAE-BRRI
j	Project Completion Workshop Entitled "Selection and Application of BPH Management Technologies in Sirajgonj".	6-8-14	7-8-14	2 days	Training room-1, BARC, Dhaka	KGF
k	Training on " Finanacial and Procurement Management	07-12-19	12-12-19	6 days	BARC Training Hall room	PMU, NATP2
l	Hands on training on "Dta analysis for crop Modeling	6-1-20	8-1-20	3 days		AISDP, BRRI

m	2020 AFACI Project Evaluation Workshop on "Establishment of Prevention Network for migratory Pests in Asia Region".	13-10-20	-	1 day		RDA, AFACI

E. Survey and Monitoring:

i) Survey and monitoring of insect pests and diseases at different AEZ of Bangladesh. (Memo no. Entom-6 (4)/213 dated on 12.07.2005- copy enclosed)

F. Other Activities:

i) Working as a Preziding Officer in 8th "Jatia Sangsad Nirbachan" 2001 at Nogopara Govt. primary School, Bashab Union, Gazipur. (Copy enclosed)

ii) Experience Certificate from Director (Research), BRRI, Gazipur

iii) Computer Skill: Training-cum-Workshop on Microsoft Visual BASIC 6.0 from 1st April to 31st August 2001 at BISHAM BISMAY- A project of MD. YOUSUF ALI FOUNDATION, Gazipur, Bangladesh.

Signature of Applicant : 

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