

**Curriculum Vitae of Md. Mostafa Kamal, Chief Scientific Officer (Plant Pathology), Bangladesh Rice Research Institute, Gazipur**

1. **Name** : Md. Mostafa Kamal, PhD
2. **Father's name** : Late Ismail Howlader
3. **Mother's name** : Most. Abida Khatun
4. **Gender** : Male
5. **Designation** : Chief Scientific Officer (CSO)
6. **Institution** : Bangladesh Rice Research Institute (BRRI)
7. **Date of joining in the present position** : 24 August 2013
8. **Date of first joining in service** : 06 September 1990
9. **Nationality** : Bangladeshi by Birth
10. **Date of Birth** : 15 January 1963
11. **Marital Status** : Married
12. **Present Address** : Chief Scientific Officer (Plant Pathology)  
Office of Director (Research), Bangladesh Rice Research Institute, Cell Phone: 01716-729850 & 01521-106497, email: [ijmumu@yahoo.com](mailto:ijmumu@yahoo.com), [mkamal15jan1963@gmail.com](mailto:mkamal15jan1963@gmail.com)
13. **Permanent Address** : Village & Post: Rajapur, Upazila: Bauphal, Dist: Patuakhali, Bangladesh

14. **Field of Specialization:** Plant Pathology (Molecular Biology, Mycology and Nematology)

15. **Qualification**

(a) **Educational Career**

<b>Degree/Diploma Certificate</b>	<b>Class/Grade/Division</b>	<b>University/Institute/Board</b>	<b>Year</b>
Post-Doc	Conferred	Bangladesh Rice Research Institute	2012
PhD	Conferred	Bangladesh Agricultural University, Mymensingh	2006
MS	Distinction	University of Gent, Belgium	1995
M.Sc. Ag.	Second	Bangladesh Agricultural University, Mymensingh	1987
B.Sc. Ag. (Hons.)	Second	Bangladesh Agricultural University, Mymensingh	1985
H.S.C (Science)	Second	Jashore Board, Jashore	1981
S.S.C (Science)	First	Jashore Board, Jashore	1979

**(b) Position Held**

Designation	Organization	Period		Pay Scale
		From	To	
Scientific Officer	BRRI, Gazipur	06.09.1990	18.06.1996	1650/
Senior Scientific Officer	BRRI, Cumilla	19.06.1996	15.07.1999	2850/
Senior Scientific Officer	BRRI, Habiganj	16.07.1999	18.02.2001	
Senior Scientific Officer	BRRI, Gazipur	19.02.2001	19.12.2006	
Principal Scientific Officer	BRRI, Barishal	20.12.2006	27.01.2010	25750/
Principal Scientific Officer	BRRI, Gazipur	28.01.2010	23.08.2013	
Chief Scientific Officer	BRRI, Gazipur	24.08.2013	14.12.2013	29000/
Chief Scientific Officer	BRRI, Rajshahi	15.12.2013	28.01.16	56500/
Chief Scientific Officer	BRRI, Sonagazi	29.01.2016	24.11.2016	
Chief Scientific Officer	BRRI, Gazipur	25.11.2016	To date	

**(c) Training****(i) In Country/National**

Name of programme	Name of Institute	From	To
1. Rice Production Training	Bangladesh Rice Research Institute, Gazipur	01.10.92	31.12.92
2. Financial Management for Agriculture Sector	Institute of Business Management, Dhaka	29.05.2k	29.05.2k
3. Hybrid Rice Cultivation and Management Practices	Bangladesh Rice Research Institute, Gazipur	28.02.01	01.03.01
4. Molecular Biology	Bangladesh Rice Research Institute, Gazipur	01.10.01	01.07.04
5. Administration and Financial Management	Bangladesh Academy for Rural Development, Cumilla	08.11.08	21.11.08
6. Phytosanitary Measures and Food Safety Issues in Bangladesh	Bangladesh Agricultural Research Council, Dhaka	13.02.13	14.02.13
7. Knowledge Awareness Building on Agricultural Policies of Bangladesh	Bangladesh Agricultural Research Council, Dhaka	29.04.13	30.04.13

**(ii) Abroad/International**

Name of programme	Name of Institute	From	To
1. ARBN Phase I Research Training and Planning Course on the Application of Molecular Marker Technology and DNA fingerprint Typing of Pathogens	International Rice Research Institute, Philippines	13.09.93	08.10.93
2. Rice Production Technology	Rural Development Academy, Republic of Korea	08.06.2k	27.06.2k
3. PAGE Techniques, Acquisition of Data from AFLP Analyzed by PAGE and Computer Analysis of Fingerprint Data (ND)	International Rice Research Institute, Philippines	13.05.03	12.07.03

## 16. Research Experience/Achievements

### (a) Management of Research Station/Division

- Achieved about 11 years' Research experience in different Regional Stations and about seven years' experience as the Head of BIRRI Regional Station Cumilla, Habiganj, Barishal, Rajshahi and Sonagazi.
- Produced **Aman seed of BIRRI Idhan32 in Boro season for the flood affected farmers** of Cumilla Region.
- Developed good linkage and collaboration with National Institutions like DAE, BADC, SRDI, different NGOs and neighboring farmers.

### (b) Action Plan Preparation

- Prepared action plan for "Post Flood Rehabilitation and Adaptive Research Support Project" for BIRRI Regional Station, Habiganj.
- Prepared action plan for many other projects under regular research program on rice diseases of major importance like Sheath Blight, Blast, Brown spot, Tungro and Ufra.
- Prepared action plan for "Dissemination of Integrated Disease Management (IDM) through farmers' participatory trial".
- Prepared action plan for "Improvement of Farmers' Saved Rice Seed Project".

### (c) Member of National Committee

- Acted as a member of Agriculture rehabilitation 3200 (Modified) for Sylhet Region, Ministry of Agriculture.
- Acted as a member of Field Evaluation Team of **NSB** as Plant Pathologist in Cumilla, Chattogram, Rangamati, Barishal and Rajshahi regions and **evaluated the varieties of notified** crops.

### (d) Special Project Preparation

- Prepared Special Project and acted as the Principal Investigator of "Post Flood Rehabilitation and Adaptive Research Support Project" for BIRRI Regional Station, Habiganj.
- Prepared Special Project and acted as the Co-Investigator of "Improvement of Farmers' Saved Rice Seed Project".

### (e) Outstanding Performance

- Outstanding performance: Received Distinction Certificate in MS Degree from University of Gent, Belgium.
- Major contribution in establishing a molecular laboratory under Plant Pathology Division at BIRRI.

**(f) Notable Research Contribution**

- Prepared action plan for three special projects and many other projects under regular research program like “Post Flood Rehabilitation and Adaptive Research Support Project” for BRRI Regional Station, Habiganj, “Dissemination of Integrated Disease Management (IDM) through farmers’ participatory trial”, and “Improvement of Farmers’ Saved Rice Seed Project”.
- Acted as an expert member of Field Evaluation Team of National Seed Board (NSB) as Plant Pathologist in Comilla region and **evaluated the varieties of notified crops**.
- Member nominated from MOA for monitoring “Status of Boro rice cultivation and fertilizer distribution of Patuakhali district”.
- Acted as a member of “Determination of Fallow land of Barisal, Pirojpur, Jhalokathi, Bhola, Barguna, Patuakhali and Bagerhat districts and crop production plan”.

**(g) MS/PhD Thesis Supervisor/Reviewer of Journal Paper/PhD Thesis Evaluator**

- Member of PhD. Thesis defense/examination committee of Bangladesh Agricultural University, Mymensingh. Member of PhD.
- Thesis defense/examination committee of Patuakhali Science and Technology University, Dumki, Patuakhali.
- Thesis Evaluator of Acharya Nagarjuna University, Nagarjunanagar, Guntur, Andhra Pradesh, India.
- Reviewed quite a large number of research papers for different national journals, like Bangladesh Journal of Plant Pathology, International Journal of BioResearch, Eco-Friendly Agriculture Journal etc.
- Participated DTC and ATC meeting and technology transfer system as a member starting from 1991 till today.
- Attended many Radio-Talks on different technology developed by BRRI as a speaker.
- Monitored the distribution of seed and fertilizer in *SIDOR* and *AILA* affected Bhola sadar upazilla, Bhola and Dashmina upazilla, Patuakhali.
- Acts as a regular resource person of different training courses conducted by Training Division, BRRI, and occasional resource person in training program of other Government and Non-Government organizations.

- (h) Visit:** Visited the Philippines, Belgium, The Netherlands, The United Kingdom, Germany, France, Republic of Korea, India, Nepal and Myanmar for attending different Training and Workshops.

## 17. Publications (43 Publications)

### (a) International and National Journal Papers (Twenty Three)

#### (i) Paper Published in Peer Reviewed Reputed International Journal as Principal Author (Five)

Sl. No.	Authors and Title
1.	<b>Kamal, M.M.</b> , and Shahjahan, A.K.M. 1995. <i>Trichoderma</i> in rice field soils and their effect on <i>Rhizoctonia solani</i> . <i>Bangladesh J. Bot.</i> <b>24(1)</b> : 75-79.
2.	<b>Kamal, M.M.</b> , Lee, H.J., Ali, M.A., and Howlader, S.H. 1997. Ecological investigation of the nematodes from Westerschelde coast (The Netherlands). <i>Bangladesh J. Zool.</i> <b>25(1)</b> : 47-51.
3.	<b>Kamal, M.M.</b> , Sarker, R., Howlader, S.H., and Mian, I.H. 1999. Susceptibility of some brinjal varieties to <i>Meloidogyne javanica</i> (Nematoda). <i>Bangladesh J. Zool.</i> <b>27(2)</b> : 131-135.
4.	<b>Kamal, M.M.</b> , Hossain, M., Islam, M.Sh., and Moens, M. 2003. Survey of plant parasitic nematodes in nursery stock of Belgium. <i>Bangladesh J. Zool.</i> <b>31(2)</b> : 177-183.
5.	<b>Kamal, M.M.</b> and Mia, M.A.T. 2009. Diversity and Pathogenicity of the Rice Brown Spot Pathogen, <i>Bipolaris oryzae</i> , in Bangladesh assessed by genetic fingerprint analysis. <i>Bangladesh J. Bot.</i> <b>38(2)</b> : 119-125.

#### (ii) List of Paper Published in National Journal as Principal Author (Four)

Sl. No.	Authors and Title
1.	<b>Kamal, M.M.</b> , Sarker, R., Ansari, T.H., Howlader, S.H., and Mian, I.H. 1998. Effect of inoculum levels of <i>Meloidogyne javanica</i> on root-knot of jute and susceptibility of some jute varieties. <i>Bangladesh J. Agril. Res.</i> <b>23(1)</b> : 127-133.
2.	<b>Kamal, M.M.</b> , Jafar, A.H.M., Islam, M.Sh., Howlader, S.H., Chowdhury, M.J.U., and Dey, T.K. 2001. Efficacy of seed treatment with fungicides in controlling seed-borne pathogens of true potato seed. <i>Bangladesh J. Plant Pathol.</i> <b>17(1&amp;2)</b> : 23-26.
3.	<b>Kamal, M.M.</b> , Jafar, A.H.M., Dey, T.K., Howlader, S.H., and Islam, M.A. 2002. Pathogenicity of some seed-borne fungi of true potato seed. <i>Bangladesh J. Agril. Res.</i> <b>27(3)</b> : 447-452.
4.	<b>Kamal, M.M.</b> , Mia, M.A.T., Hossain, M. and Sharma, N.R. 2007. Diversity of the Rice Brown Spot Pathogen, <i>Bipolaris oryzae</i> , in Bangladesh assessed by genetic fingerprint analysis. <i>Bangladesh J. Plant Pathol.</i> <b>23(1&amp;2)</b> : 63-68.

(iii) **List of Paper Published in National/International Journal as Co-Author (Fourteen)**

Sl. No.	Authors and Title
1.	Husein, M.M., Ahmed, A.U., Islam, M.A., Rashid, M.A., and <b>Kamal, M.M.</b> 1997. Effect of seedling and soil treatments with carbofuran on ufra disease infestation and yield of irrigated rice. <i>Bangladesh rice j.</i> <b>8(1 &amp; 2)</b> : 23-26.
2.	Chowdhury, M.J.U., Rahman, M.M., Zaman, Meer M.M., Sarker, F.I.M.G.W., and <b>Kamal, M.M.</b> 1997. Effect of sowing techniques on the growth, yield and yield contributing characters of rice. <i>Bangladesh rice j.</i> <b>8(1 &amp; 2)</b> : 27-30.
3.	Islam, M.Sh., Miah, M.N.I., Haque, M.M., <b>Kamal, M.M.</b> , and Ahmed, N. 2001. Effect of soil moisture deficit on root growth of upland rice cultivars. <i>Bangladesh Journal of Agricultural Science.</i> <b>28(1)</b> : 79-86.
4.	Islam, M.Sh., Miah, M.N.I., Haque, M.M., <b>Kamal, M.M.</b> , and Ahmed, N. 2001. Effect of soil moisture deficit on shoot growth and development of upland rice cultivars. <i>Bangladesh Journal of Agricultural Science.</i> <b>28(2)</b> : 223-232.
5.	Hossain, M., Mazid, M.A., Kader, M.A., <b>Kamal, M.M.</b> and Mollah, I.U. 2003. Effect of soil solarization on nematode in rice-wheat system. <i>The Agriculturists.</i> <b>1(1)</b> : 47-52.
6.	Hossain, M., Stevens Conrad, Mia, M.A.T., <b>Kamal, M.M.</b> , Elliot Sarah and Wayne Steven 2003. Identification of rice seed associated bacteria and molecular standardization using denaturing gradient gel electrophoresis. <i>Bangladesh J. Plant Pathol.</i> <b>19(1 &amp; 2)</b> : 39-43.
7.	Muttaleb, M.A., Hossain, M.S. and <b>Kamal, M.M.</b> 2003. Farmers' perception and adoption of balanced fertilizer in two selected rice ecosystems. <i>Progress. Agric.</i> <b>14(1 &amp; 2)</b> : 143-149.
8.	Hossain, M., Mazid, M.A., Karmakar, B., <b>Kamal, M.M.</b> , Islam, M.Sh., Ali, M. A. and Zami, M.A. 2004. Agronomic management of hybrid rice for better yield. <i>Bangladesh Agron. J.</i> <b>10(1 &amp; 2)</b> : 23-30.
9.	Ali, M.A., <b>Kamal, M.M.</b> , Archer, S.A., Buddie, A. and Rutherford, M. 2004. Anastomosis and DNA fingerprinting the rice isolates of <i>Rhizoctonia solani</i> Kuhn using AFLP markers. <i>Bangladesh J. Plant Pathol.</i> <b>20(1 &amp; 2)</b> : 1-8.
10.	Sharma, N.R., <b>Kamal, M.M.</b> and Ali, M.A. 2004. Biological control of rice sheath blight disease using antagonistic seed bacteria. <i>Bangladesh J. Plant Pathol.</i> <b>20(1 &amp; 2)</b> : 13-16.
11.	Rahman, M.S., <b>Kamal, M.M.</b> , Hossain, M. and Ali, M.A. 2005. Morphological changes of bunchy top infected banana plant. <i>Bangladesh J. Plant Pathol.</i> <b>21(1 &amp; 2)</b> : 43-48.
12.	Azad, A.K.M., <b>Kamal, M.M.</b> , Howlader, S.H., Hossain, M. and Akanda, A.M. 2005. Morphology of six isolates of <i>Colletitrichum</i> species and their host range. <i>Bangladesh J. Plant Pathol.</i> <b>21(1 &amp; 2)</b> : 71-76.
13.	Hossain, M., <b>Kamal, M.M.</b> , Mazid, M.A. and Rashid, M.M. 2007. Reduction of parasitic nematode by soil solarization in transplanted aman rice-wheat system. <i>Bangladesh J. Agril. Res.</i> <b>32(4)</b> : 533-540.
14.	Hossain, M., <b>Kamal, M.M.</b> , Mia, M.A.T. and Ali, M.A. 2008. Evaluation of methods and primers to identify genetic variability of <i>Fusarium moniliforme</i> . <i>J. Plant Pathol.</i> <b>24(1 &amp; 2)</b> : 1-6.

**(b) Books/Monographs/Bulletins (Eight)**

**(i) List of Books as Principal Author (Two)**

Sl. No.	Authors & Title
1.	<b>Kamal, M.M.</b> , Islam, M.S., Khatun, A. and Saleque, M.A. 2007. Dhan Utpadoner Adhunik Projukty Proshikshan Manual. BIRRI Regional Station, Sagardi, Barisal. 35P.
2.	<b>Kamal, M.M.</b> , Islam, M.S., Khatun, A., Sharma, N., Rahman, M.S., Mahmud, M.N.H. and Saleque, M.A. 2008. Adhunik Dhan Chaser Proshikshan Manual. BIRRI Regional Station, Sagardi, Barisal. 45P.

**(ii) List of Monograph as Principal Author (One)**

Sl. No.	Authors & Title
1.	<b>Kamal, M.M.</b> , Muttaleb, M.A. and Hossain, M.S. 2001. The Final report of Post Flood Rehabilitation and Adaptive Research Support Project. An Agricultural Research and Management Project. Submitted to Bangladesh Agricultural Research Council. New Airport Road, Dhaka 1215. 28P.

**(iii) List of Books as Co-Author (Two)**

Sl. No.	Authors & Title
1.	Islam, M.S., Sharma, N., Mahmud, M.N.H. <b>Kamal, M.M</b> and Saleque, M.A. 2010. Adhunik Dhan Chaser Krishok Guide. BIRRI Regional Station, Sagardi, Barisal. 36P.
2.	Ali, M.A., <b>Kamal, M.M.</b> , and Ansari, T.H. 2012. Dhaner Rog Balai. In: Dhan Chaser Samosya (Revised Edition). Editors: Ali, M.S., Biswas, J.K., and Kashem, M.A. pp. 26-43.

**(iv) List of Monographs as Co-Author (Two)**

Sl. No.	Authors & Title
1.	Hossain, M.A., Sharma, N.R., <b>Kamal, M.M.</b> , Jahan, Q.S.A., Kabir, M.S. and Hossain, M. 2006. Dissemination of integrated disease management practices through farmers' participatory field trial project. A training report on Agricultural Technology Transfer (ATT) Project. Submitted to Bangladesh Agricultural Research Council. New Airport Road, Dhaka 1215. 24P.
2.	Hossain, M.A., Latif, M.A., Kabir, M.S., <b>Kamal, M.M.</b> , Mian, M.S., Akter, S. and Sharma, N.R. 2007. Dissemination of integrated disease management practices through farmers' participatory field trial. A report on Agricultural Technology Transfer (ATT) Project. Submitted to Bangladesh Agricultural Research Council. New Airport Road, Dhaka 1215. 27P.

(v) List of Bulletin as Co-Author (One)

Sl. No.	Authors & Title
1.	Stevens, C., <b>Kamal, M.M.</b> , Mian, M.S., Hossain, M. and Mia, M.A.T. 2003. Using Molecular Biology to study Plant Pathology. Presented in 'Communication Fair 2003'. Developed and Published by Steps Towards Development, Dhaka, Bangladesh.

(c) Seminar/Workshop/Symposium proceedings/Abstract/Popular article (Eleven)

(i) List of International Seminar/Workshop/Symposium proceedings/Abstract/Popular article as Principal Author (Two)

Sl. No.	Authors & Title
1.	<b>Kamal, M.M.</b> and Hossain, M. 2007. Use of biotechnology and development of transgenics for crop disease management. In: Proceedings of the national workshop on "Strategic Intervention on Plant Pathological Research in Bangladesh". (Eds. Bakr, M.A., Ahmed, H.U. and Mian, M.A.W.), Bangladesh Agricultural Research Institute, Joydebpur, Gazipur, 344 pp.
2.	<b>Kamal, M.M.</b> and Mia, M.A.T. 2008. Diversity and Pathogenicity of the Rice Brown Spot Pathogen, <i>Bipolaris oryzae</i> , in Bangladesh assessed by genetic fingerprint analysis. In: Abstracts of Fourth International Botanical Conference held from January 16-18, 2008, Dhaka, Bangladesh. 75 pp.

(ii) List of National Seminar/Workshop/Symposium proceedings/Abstract/Popular article as Principal Author (Two)

Sl. No.	Authors & Title
1.	<b>Kamal, M.M.</b> , M.A. Muttaleb and M.S. Hossain 2001. A paper presented in the Research-Extension Regional Workshop for 2000 held on March 15, 2001 at Department of Agricultural Extension, Khamarbari, Comilla.
2.	<b>Kamal, M.M.</b> and M.A.T. Mia 2011. Disease Management. In: Insect and Disease Management of rice and future needs. A paper presented in the "National workshop on research achievement of past ten years of cereal crops and their future research strategies for sustainable production and food security" during 10-11 January 2011 at BARC, Farmgate, Dhaka.
3.	<b>Kamal, M.M.</b> and Ali, M.A. 2017. Climate Smart Agriculture Technology: Theory and Practices of BRRI for Coastal Region. In: Conference Proceedings Report 'International Conference on Financialisation and false solutions Climate smart agriculture and its alternatives' held from 09-11 August 2017, CIRDP, Dhaka, Bangladesh. 63 pp.



**(iii) List of National Seminar/Workshop/Symposium proceedings/Abstract/Popular article as Co-Author (Seven)**

Sl. No.	Authors & Title
1.	Hossain, M., C. Stevens, <b>M.M. Kamal</b> and M.A.T. Mia 2004. Molecular methods for identifying rice seed borne pathogen. A paper presented in the Thursday seminar held on February 26, 2004 at BRRI, Gazipur
2.	Mia, M.A.T., C. Stevens, <b>M.M. Kamal</b> , M. Hossain, M.S. Mian, S. Rahman and J.A. Begum 2003. Storage experiment and molecular activities at BRRI. A paper presented in the Review and Planning Workshop of Rice Seed Health Improvement Sub-Project held during April 22-23, 2003 at BRRI, Gazipur.
3.	Hossain, M., C. Stevens, M.A.T. Mia and <b>M.M. Kamal</b> 2004. Standardization of DNA fingerprinting methods to identify genetic variability of <i>Fusarium moniliforme</i> . Abstract presented in the 6 <sup>th</sup> Biennial conference of Bangladesh Phytopathological Society held on July 29, 2004 at BARI, Gazipur.
4.	Rahman, M.S., <b>M.M. Kamal</b> , M. Hossain and M.A. Ali 2004. Changes in morphology of bunchy top infected banana plant. Abstract presented in the 6 <sup>th</sup> Biennial conference of Bangladesh Phytopathological Society held on July 29, 2004 at BARI, Gazipur.
5.	Azad, A.K.M., <b>M.M. Kamal</b> , S.H. Howlader, M. Hossain and A.M. Akanda 2004. Colletotrichum species in Gazipur district and their host range. Abstract presented in the 6 <sup>th</sup> Biennial conference of Bangladesh Phytopathological Society held on July 29, 2004 at BARI, Gazipur.
6.	Latif, M.A., M.S. Mian, <b>M.M. Kamal</b> , M.S. Kabir, M. Hossain, S. Akter, M.A.T. Mia, M.M. Rahman, M.A. Hossain and M.A. Nahar 2005. Effect of three organic amendments in controlling sheath blight disease of rice. Abstract presented in the workshop on Validation and Promotion of sheath blight disease management held on December 11, 2005 at BRRI, Gazipur.
7.	Latif, M.A., M.S. Mian, <b>M.M. Kamal</b> , M.S. Kabir, M. Hossain, S. Akter, M.A.T. Mia, M.M. Rahman, M.A. Hossain and M.A. Nahar 2005. Efficacy of two biocontrol agents in controlling sheath blight disease of rice. Abstract presented in the workshop on Validation and Promotion of sheath blight disease management held on December 11, 2005 at BRRI, Gazipur.