

Personal Data Sheet

1. Name : **DR. MD. BABUL HOSSAIN**
 2. Father's name : Md. Abdur Rashid
 3. Mother's name : Mrs. Rokea Begom
 4. Wife's name : Farhana Naznin
 5. Gender : Male
6. Present Address : 124/1, Madobilata, BJRI colony, Bangladesh Jute Research Institute, Manik Mia Avenue, Dhaka-1207
7. Permanent Address : Village: Shaktipur (West part), Post: Shahzadpur, Upozilla: Shahzadpur, Zilla: Sirajganj
8. Date of birth : 01 January, 1979
 9. Age : 44 years

10. Educational Qualification :

Degree/Diploma/Certificate	Class/Grade/Division	University/Institute/Board	Year
S.S.C.	1 st	Rajshahi	1994
H.S.C.	1 st	Rajshahi	1996
B.Sc. Ag.	2 nd	BAU*, Mymensingh	2000
M.S. in Agronomy	1 st	BAU*, Mymensingh	2005
Ph.D. in Plant Production	-	UGAS**, Iwate University, Japan	2017

*Bangladesh Agricultural University. **United Graduate School of Agricultural Sciences.

Certificate Course	Class/Grade/Division	University/Institute/Board	Year
Post-graduate Certificate Course on Seed Technology	1 st	Sher-e-Bangla Agricultural University	2007

- 11. Field of Specialization :** Agronomy; Farming systems research; Crop modeling; Elemental analysis; Anatomical sample preparation and observation using Light microscopy, TEM, SEM; Hydroponic culture.

12. Training:

Organization	Year	Duration		Name of programme
		Mos.	Days	
BARC	2023	-	3	IoT-based Precision Agriculture for Sustainable Production
CPTU, IMED	2022	-	2	e-Project Management Information System (e-PMIS)
BARC	2022	-	5	Bioinformatics for Sustainable Development in Agriculture
BJRI	2022	-	1	Office Management & Skill Development
CPTU	2021	-	5	National e-Government Procurement (e-GP) System as Procuring Entity (PE) User
BARC	2021	-	3	Exploratory Data Analysis in Agricultural Research with Software

BARC	2019	-	2	Climate Smart Agriculture in relation to Charland Eco-Systems
BJRI	2019	-	2	Innovation in Public Service
BJRI	2019	-	2	Modern Office Management
BIM	2019	-	6	Public Procurement Management
BARC	2018	-	3	Communication Skills in Agriculture
BJRI	2018	-	3	Administrative and Financial Management
BJRI	2018	-	3	Technical Report Writing and Editing
BJRI	2018	-	3	Agricultural Project Management
BJRI	2018	-	3	Data analysis by micro computer
BJRI	2018	-	2	e-Filing
BARD	2018	-	13	Administrative & Financial Management
BARC	2014	-	3	Use of Fertilizer Recommendation Guide-2012
BARC	2013	-	4	Farming Systems Research and Development
BARI	2012	-	6	On-Farm Research Methodology
BJRI	2012	-	4	Technical Report Writing and Editing
BARC	2011	-	2	Seed Quality Management
GTI	2010	-	13	Research Methodology
BADC, Jeshore	2010	-	2	Hybrid Rice Seed Production, Processing and Storage Technology
BARD.	2008	-	4	Development Management
BRDTI	2007	-	5	Rural Development and Poverty Alleviation
BARD	2007	04	-	Foundation Training Course for NARS Scientists
SAU	2007	3	-	Post-graduate Certificate Course on Seed Technology
BJRI	2006	-	2	Modern Jute & Kenaf Seed Production & Storage Technology

BARC- Bangladesh Rural Advancement Committee

BIM- Bangladesh Institute of Management BCC- Bangladesh Computer Council

BARD- Bangladesh Academy for Rural Development

BJRI- Bangladesh Jute Research Institute

GTI- Graduate Training Institute

BRDTI- Bangladesh Rural Development Training Institute

SAU- Sher-e-Bangla Agricultural University

13. Experience:

Work position and posting place:

Position	Place of posting	Period	Duration	Remarks
Scientific Officer	Jute Research Regional Station, Rangpur	01-11-04 to 17-06-08	3 years 7 months	-
Scientific Officer	Jute Research Substation, Tarabo, Narayanganj	18-06-08 to 05-08-09	1 years 2 months	Office in charge
Scientific Officer	Jute Research Substation, Monirampur, Jashore	06-08-09 to 26-12-12	3 years 4 months	Office in charge
Scientific Officer	JFSD, BJRI, Dhaka	26-12-12 to 25-04-13	4 months	-
Senior Scientific Officer (cc)	JFSD, BJRI, Dhaka	25-04-13 to 31-8-14	1 year 5 months	-
Doctoral study	UGAS**, Iwate University, Japan	01-09-2014 to 31-09-2017	3 years 1 month	Doctoral study
Senior Scientific Officer	JFSD, BJRI, Dhaka	01-10-17 to 06-05-2019	8 months	-
Senior Scientific Officer	Jute Research Regional Station, Kishoreganj	31-12-2017 to 07-05-2019	1 year 6 months	Office in charge

Senior Scientific Officer	JFSD, BJRI, Dhaka	08-05-2019 to 14-12-2022	3 year 3 months	-
Principal Scientific Officer	JFSD, BJRI, Dhaka	15-12-2022 to up-to-date	2 months	-
Total	-	-	18 years 3 months	-

14. Publication:

Principal author: 10 (International journal: 03; National journal: 07)

Co-author : 14 (International journal: 02; National journal: 12)

a) Full scientific paper as **principal author** published in the **reputed International Journal**:

1. **Md. Babul Hossain** and Bishwajit Kundu. 2022. Comparative analysis of the profitability of the tossa and kenaf seed cultivation at contact growers' level in selected areas of Bangladesh. *International Journal of Advanced Geosciences*. 10 (1):41-45.
www.sciencepubco.com/index.php/IJAG
2. **M. Babul Hossain**, Ayumi Sawada, Kaori Noda and Michio Kawasaki. 2017. Hydathode function and changes in contents of elements in eddo exposed to zinc in hydroponic solution. *Plant Production Science*. 20(4):423-433.
DOI:10.1080/1343943X.2017.1383167
ISSN: 1349-1008
3. **M. Babul Hossain**, Nobuhiko Matsuyama and Michio Kawasaki. 2016. Hydathode morphology and role of guttation in excreting sodium at different concentrations of sodium chloride in eddo. *Plant Production Science*. 19(4):528-539.
DOI:10.1080/1343943X.2016.1210990
ISSN: 1349-1008

b) Full scientific paper as **co-author** published in the **reputed International Journal**:

4. Nasir Uddin, Md. Meftahul Karim, Bishwajit Kundo, **Md. Babul Hossain**. 2021. Production and profitability study of white jute seed at farmer's level in different areas of Bangladesh. *Haya: The Saudi Journal of Life Sciences*. 6(4):56-62.
DOI: 10.36348/sjls.2021.v06i04.001
ISSN 2415-6221
5. M. Mahbubul Islam, Saheb Ali, M. Momotaz Ali, M. Younus Ali and **M. Babul Hossain**. 2018. Jute fibre yield and economics in charland areas of Bangladesh. *Research in: Agricultural & Veterinary Sciences*. 2(1):59-65.
DOI: 10.13140/RG.2.2.26794.72649
ISSN: 2520-6516

c) Full scientific paper as **principal author** published in the **National Journal**:

6. **M. Babul Hossain**, B. Kundu and S. N. Islam. 2022. Comparative returns among farmers' alternate cropping patterns in comparison with existing farmers' practices in Jashore region of Bangladesh. *Bangladesh J. Environ. Sci.*, 43: 53-58.
<https://environmentalexplora.com/university-research-paper-on-bangladesh-2022/>
ISSN 1561-9206
7. **M. Babul Hossain**, B. Kundu, M. M. Karim and M. A. Khan. 2020. Jute based farming system: Achievement, challenges and prospects in Bangladesh. *Bangladesh J. Environ. Sci.*, 39:121-130.
<https://environmentalexplora.com/university-research-paper-on-bangladesh-2021/>
ISSN: 1561-9206
8. **M. Babul Hossain**, Z. A. Rafiq, M. Y. Ali, M. N. Uddin, and M. H. Rashid. 2020. Productivity of tossa jute seed as influenced by different planting methods and spacing under puddle condition at planting period. *Bangladesh J. Environ. Sci.*, 39:21-24.
<https://environmentalexplora.com/university-research-paper-on-bangladesh-2021/>
ISSN: 1561-9206

9. **M. Babul Hossain**, M. Nasir Uddin, M. Jahangir Alam, M. Younus Ali and M. Razib Rahman. 2014. Economic performance of jute cultivation at farm level in some selected areas of Bangladesh. *Journal of Experimental Biosciences*. 5(1):156-163.
ISSN: 2223-9626
 10. **M. Babul Hossain**, M. Younus Ali, M. Zahid Al Rafiq, Izaz Ahmed and M. Mozibur Rahman. 2009. Effect of row spacing and de-heading at different growth stages of jute plant on late jute seed yield. *International Journal of Sustainable Agricultural Technology*. 5(4):63-65.
ISSN: 1815-1272
 11. **M. Babul Hossain**, Abdul Hannan, M. Delowar Hossain, Najrul Islam and Izaz Ahmed. 2009. Effect of nitrogen level, seed rate and planting method on the yield performance of wheat (*Triticum aestivum* L.). *International Journal of Sustainable Agricultural Technology*. 5(4):24- 30.
ISSN: 1815-1272
 12. **M. Babul Hossain**, A.S.M. Sayem, Abdul Hannan, M. Younus Ali, and Masud Ahmed. 2009. Pest abundance of soybean (*Glycine max* L.) in relation to inoculum (*Bradyrhizobium*) and phosphorus fertilizer. *Journal of Subtropical Agricultural Research and Development*. 7(5):716-721.
ISSN: 1811-8976
- d) Full scientific paper as co-author published in the other International & National Journal:**
13. B. Kundu and M. B. Hossain. 2022. Cost benefit and break-even analysis of tossa and kenaf fibre crop cultivation at farm levels in Bangladesh. *Bangladesh J. Environ. Sci.*, 42: 95-102.
<https://environmentalexplora.com/university-research-paper-on-bangladesh-2022/>
ISSN 1561-9206
 14. M. Younus Ali, **M. Babul Hossain** and Md. Zahid Al Rafiq. 2020. Effect of molybdenum on seed yield and yield contributing characters of tossa jute in late season. *International Journal of Sustainable Agricultural Technology*. 16(7): 01-05.
ISSN: 1815-1272
 15. A. T. M. M. Alam, M. F. Alom, **M. B. Hossain**, M. S. Hasan and M. Y. Ali. 2012. Effect of sowing dates and methods on seed quality of Tossa jute. *Bangladesh Journal of Agriculture and Environment*. 8(2):1-5.
ISSN: 1816-0808
 16. M. A. Khan, M. Y. Ali, **M. B. Hossain** and Z. A. Rafique. 2010. Effect of seedling age and plant spacing on seed yield and quality of Tossa Jute. *Bangladesh Journal Seed Science & Technology*. 14(1&2):39-43.
ISSN: 1029-8800
 17. E. R. Choudhury, S. Sarkar, M. R. Islam, M. Y. Ali and **M. B. Hossain**. 2010. Farmers characteristics associated with the participation in fish development activities of BAUEC. *Eco-friendly Agriculture Journal*. 3(6):283-288.
ISSN: 1999-7957
 18. M. R. Islam, S. Sarkar, E. R. Choudhury, M. Y. Ali, and **M. B. Hossain**. 2010. Involvement of BRAC trained women beneficiaries in decision making role in house hold and health care. *Eco-friendly Agriculture Journal*. 3(6):289-294.
ISSN: 1999-7957
 19. M. R. Islam, S. Sarkar, M. Y. Ali, **M. B. Hossain** and E. R. Choudhury. 2010. Involvement of BRAC trained women beneficiaries in income generating activities. *Eco-friendly Agriculture Journal*. 3(6):278-282.
ISSN: 1999-7957
 20. M. R. Islam, M. A. Sohel, M. R. Hassan, S. K. Paul and **M. B. Hossain**. 2009. Effect of shading time on the yield and yield contributing characters of rice cv. BR II. *Bangladesh Journal of Environmental Science*. 16:224-229.

ISSN: 1561-9206

21. M. R. Islam, H. A. Begum, M. H. Rashid, I. Ahmed and **M. B. Hossain**. 2009. Varietal development of early maturing kenaf (*Hibiscus cannabinus* L.). *International Journal of BioResearch*. 7(2):65-69.

ISSN: 1819-8783

22. M. R. Jamal, M. Ali, T. S. Aqter, **M. B. Hossain**, G. A. Fakir and F. Yasmine. 2009. Efficacy of garlic and neem leaf extracts on germination and control of seed-borne fungal pathogens of rice. *International Journal of BioResearch*. 7(5):71-78.

ISSN: 1819-8783

23. M. R. Islam, H. A. Begum, M. Rahman, A. K. M. S. Hossain, M. H. Rashid, and **M. B. Hossain**. 2009. Genetic variability of some selected genotypes of kenaf (*Hibiscus cannabinus* L.). *International Journal of BioResearch*. (6):17-21.

ISSN: 1819-8783

24. K. M. F. Hossain, A. K. M. M. Rahman, M. S. Bhuiyan, M. A. Rahman and **M. Babul Hossain**. 2009. Homestead agro forestry status in Hathajari thana of Chittagang District. *Bangladesh Journal of Environmental Science*. 17:51-54.

ISSN: 1561-9206

b) List of Books/Monographs/Bulletins:

i. Books

1. সালেহ মোহাম্মদ আশরাফুল হক, মো: হারুন অর রশিদ, মো: বাবুল হোসেন ও মো: সামিউল হক. ২০২১. পাট ও সমগোত্রীয় ঔশ ফসলের উৎপাদন কলাকৌশল বিষয়ক প্রশিক্ষণ সহায়িকা। বাংলাদেশ পাট গবেষণা ইনস্টিটিউট, মানিক মিয়া এভিনিউ, ঢাকা-১২০৭।
2. ANNUAL RESEARCH REPORT. 2020. Agriculture Research on Jute 2019. Bangladesh Jute Research Institute, Manik Mia Avenue, Dhaka-1207.
3. ANNUAL RESEARCH PROGRAMME. 2020. Agriculture Research on Jute 2020. Bangladesh Jute Research Institute, Manik Mia Avenue, Dhaka-1207.
4. RESEARCH HIGHLIGHTS. 2020. Agriculture Research on Jute 2019. Bangladesh Jute Research Institute, Manik Mia Avenue, Dhaka-1207.

iii. Bulletins

1. M. Mozibur Rahman, M. Mahbubul Islam, M. Younus Ali, M. Momotaz Ali, **M. Babul Hossain** and M. Muktedir Hossain. 2014. Jute production in the chars. In: A Hashem (ed.). BJRI needs modernization of research and other facilities. The Guardian, Vol. XXIV, Issue 7, pp 22-25.

15. Research achievement

(i) No of technology developed

1. Developed **model equations** for yield estimation through crop cut method at farm level
2. Developed java script language based growth model: **Growth Analysis of Jute crops**
3. উন্নত শস্য বিন্যাস বোরো-পাট-রোপা আমন অথবা বোরো/পাট-রোপা আমন অথবা বোরো-রোপা পাট-রোপা আমন (Improved cropping pattern *Boro-Jute-T. Aman* or *Boro/Jute-T. Aman* or *Boro-T. Jute-T. Aman*)
4. উন্নত শস্য বিন্যাস বোরো/পাট-রোপা আমন/সরিষা অথবা বোরো-রোপা পাট-রোপা আমন/সরিষা (Improved cropping pattern *Boro/Jute-T. Aman/Mustard* or *Boro-T. Jute-T. Aman/Mustard*)
5. Jute seed based cropping pattern Onion-Jute-Jute seed+Coriander
6. Improvement of Maize-Jute-T. Aman cropping pattern using modern cultivars and management practices.
7. Late jute seed production in Agro-forestry systems
8. Jute seed production increased by de-heading at early vegetative stage
9. Wheat production using bed planting method
10. Jute seed production by seedling and direct sowing in wet land condition
11. Seedling age and planting spacing on the yield and quality of olitorius jute seed in late

- season
12. Intercropping of jute with summer Mungbean
 13. Weed management in late jute seed crop by manipulating the plant population
 14. Pest abundance and phosphorus fertilizer

(ii) No of Research Programme

- | | |
|----------------|-------|
| (a) Executed | : 13 |
| (b) Supervised | : 25 |
| (c) Developed | : 106 |

16. Others achievement:

Award received

1. PhD Scholarship award received from UGAS, Iwate University, Japan

Outstanding performance

1. Developed java script language based growth model: **Growth Analysis of Jute crops**
2. Developed java script language based **model equations** for yield estimation through crop cut method at farm level

Participation in technology

1. উন্নত শস্য বিন্যাস বোরো-পাট-রোপা আমন অথবা বোরো/পাট-রোপা আমন অথবা বোরো-রোপা পাট-রোপা আমন (Improved cropping pattern *Boro-Jute-T. Aman* or *Boro/Jute-T. Aman* or *Boro-T. Jute-T. Aman*)
2. Jute seed based cropping pattern Onion-Jute-Jute seed+Coriander
3. Improvement of Maize-Jute-T. Aman cropping pattern using modern cultivars and management practices.
4. Late jute seed production in Agro-forestry systems
5. Twenty technologies for "**Jute Knowledge Bank**" software system

Team member as scientist or co-investigator in projects

1. Team member of research pool in Agriculture wing, BJRI
2. Working as scientist team member of Jute crop simulation model develop under Agro-meteorological Information System Development
3. Working as co-investigator of PBRG Sub-project: Transfer of Agricultural Technologies to Farmers Level for Increasing Farm Productivity (ID-005).
4. Worked as associate scientist of M4C project of Charland of Jamalpur, Sirajganj, Bogra, Gaibamda, Lalmonirhat and Kurigram districts.
5. Worked as an associate scientist of Katalist in Jashore and Faridpur areas about improved jute retting technology.
6. Work as a scientist to screening of jute and allied accessions from the gene bank preservation.
7. Participated as a team member of different survey and monitoring team

Lecture, training and co-ordination

1. Delivered lecture "About Bangladesh" at International Cooperation Experience Program, JICA for High School Students held in Hachinohe, Japan.
2. Participated as a trainer in training programme on Jute Seed Production Technology for farmers at different regional and sub-stations of BJRI.
3. Coordinated training programme on Jute Seed Production Technology for farmers at Tarabo and Monirampur sub-stations of BJRI.
4. Participated as a resource person to the radio-talk programme at Bangladesh Betar.

5. Conducted survey about fibre and jute seed production in different districts of Bangladesh
6. Established and supervised MLT plot in different districts of Bangladesh
7. Production of Breeder seed. for BADC at Kishoreganj, Rangpur regional and Monirampur substations of BJRI
8. Participated as a trainer for the SAAO, farmers on jute crop, jute seed crop harvest, production and storage technology.

Supervision public examination and Local Govt. activities

1. Co-ordinated BSC, HSC, SSC, JSC examination at Moniramper, Jashore.
2. Monitoring officer or Tag officer, Union information and service centre, Employment for ultra-poor, LGSP activities, Sharodiw durgapuja etc. Monitoring at Moniramper, Jashore.

Society membership

1. Bangladesh Seed Science Society, Agronomy Society, Krishibid Institution of Bangladesh and BJRI Scientist Society.

Other activities

1. Executed, Monitoring, Data collection of different research programme of BJRI at regional and sub-stations of BJRI
3. Office management, financial management, writing ACR of office staff etc. at the time of posting of Kishoreganj, Tarabo and Monirampur stations of BJRI.



(Dr. Md. Babul Hossain)

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