

**CV of MD. SIRAJUL ISLAM**  
**Chief Scientific Officer (CSO)**  
**Farm Management Division**  
**Bangladesh Rice Research Institute (BRRI)**



1. (a) Name : **Md. Sirajul Islam**
- (b) Father's name : Late Md. Shamsuddin Sheikh
- (c) Mother's Name : Mst. Amina Khatun.
- (d) Gender : Male
2. **Address**
  - (a) Permanent Address : Village: Darirumpur, Ward No.; 7, Trishal Purosava,  
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Mobile:01731217675, E-mail: [sirajfm10@yahoo.com](mailto:sirajfm10@yahoo.com)
  - (b) Present Address : Chief Scientific Officer & Head  
Farm Management Division  
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Tel. 02-92674401-17, Extn. 432, Mobile:01731217675  
E-mail: [sirajfm10@yahoo.com](mailto:sirajfm10@yahoo.com)
3. Nationality : Bangladeshi by birth.
4. Date of birth : 01 October 1970.
5. Date of joining at BRRI : 20 August 1998
6. Date of joining at present : 21 November 2019
- Position
7. Marital status : Married
8. Age : 50 years & 10 months as on 31. 07. 2021.

**9. Educational Career:**

<b>Degree/Diploma/ Certificate</b>	<b>Class/Grade/ Division</b>	<b>University/Institute/ Board</b>	<b>Year</b>	<b>Group</b>
Secondary School Certificate (SSC)	First Division.	Trishal Govt. Nazrul Academy, Darirumpur, Dhaka Board.	1985	Science
Higher Secondary Certificate (HSC)	First Division.	Govt. Nazrul College, Trishal, Dhaka Board.	1987	Science
B. Sc. Ag.	Second Class	Bangladesh Agricultural University (BAU), Mymensingh.	1992 (Exam. held on 1996)	Agriculture
M S in Agronomy	First Class (CGPA-3.22)	BAU, Mymensingh.	2003	Agriculture
PhD	On going	BAU, Mymensingh.		

**Course title in education level:**

**B.Sc. Level:** Agronomy, Horticulture, Soil Science, Crop Botany, Entomology, Plant Pathology, Genetics & Plant Breeding, Agril. Extension & Education, Biochemistry, Agril. Chemistry, Organic Chemistry, Physical & Analytical Chemistry, Agril. Statistics, Agril. Economics, Farm Mechanics, Rural Sociology, Animal Husbandry, etc.

**Masters level:** Environmental Agronomy, Cropland Agroforestry, Advanced Crop Husbandry, Cropping Systems, Crop Yield Processes, Seed Technology, Agricultural Systems, Stress Agronomy, Weed Management, Soil Fertility Mgt. for Crop Prod<sup>n</sup>., Water Mgt. for Crop Prod<sup>n</sup>., Agronomic Research Methodology.

**10. Field of Specialization : Farm Management Agronomist**

- Professional experience of 23 years as a Farm Management Agronomist at Bangladesh Rice Research Institute holding different positions. Major duties & responsibilities include: (i) Administration, Planning, Programming, Implementing and Executing of research programs, (ii) development a no. of scientific information for rice production and labor management, (iii) monitoring and evaluation of research and other activities and preparation of reports, (iv) providing support to other divisions of the institute on executing of experiment.
- 2 years experiences in administration, co-ordination and management of administrative staff at BRRI HQ. & Regional Stations as an additional Charge of Deputy Director (Administration. & Common Service) of BRRI.

**11. Training Received:****(a) Local (In Country):**

Organization	Year	Duration		Name of program
		Months	Days	
BRRI, Gazipur.	1998	2	0	Rice Production, Communication and Office Management.
BARD, Cumilla.	1999	3	15	Foundation Training Course for NARS Scientists.
BRRI, Gazipur.	2001	0	5	Breeder Seed Production.
BRRI, Gazipur	2003	0	2	Hybrid Rice Seed Production.
BARC, Dhaka	2009	0	3	Training Workshop on Financial Management, NATP Phase-I
BARC, Dhaka	2010	0	5	Econometric Analysis through Different Computer Soft wares
BRRI, Gazipu.r	2010	0	3	Breeder Seed Production and Preservation of Rice
Cereal Systems Initiative for South Asia (CSISA) & CYMMIT, Dhaka, Bangladesh	2010	0	4	Workshop on Group Communication, Mentoring and e-Learning.
Bangladesh Society of Agronomy (BSA), BARC, Dhaka	2010	0	2	International Conference on Crop Production under Changing Climate in Bangladesh: Agronomic Options

BRRI, Gazipur	2011	0	2	GSR- Hybrid Rice Seed Production Training Course
BARC, Dhaka	2014	0	5	Project Development and Management
BARD, Cumilla Supported by BARC	2014	0	14	Administrative and Financial Management
BARC, Dhaka	2014	0	3	Knowledge and Awareness Building on Agricultural Policies
Bangladesh Agricultural University (BAU), Mymensingh & Murdoch University, Australia	2017	0	2	2nd Conference of Conservation Agriculture for Smallholders (CASH-II), during 14-16 February 2017
NATA, Gazipur	2017-18	0	14	Project Management, Procurement and Monitoring

**(b) Abroad:**

Country	Year	Duration		Name of Program
		Months	Days	
Farming System and Soil Resources Institute, UPLB, Los-Banos, Philippines.	2000	1	12	Integrated Crop Management in Farming Systems
Yung Long ping High-tech Agriculture Co. Ltd. Changsha, Ministry of Commerce, People's Republic of China	2011	0	20	Seminar on Hybrid Rice for Bangladesh
Maejo University, Chiang Mai, Thailand	2015	0	22	International Training Course on Sufficiency Economy: Learning Organic Agriculture by Doing
PHILARM, Los Banos 4030 Laguna, Metro Manila, Philippines	2019	0	11	Training on "Climate Smart Agriculture"

**12. Employment record:**

Designation	Name(s) of employing organization	Date of joining	Date of ending	Nature of duties & responsibilities actually performed.
Scientific Officer	Farm Management Division, BRRI, Gazipur	20.08.1998	15.06.2005	Research, Administration and Management etc.
Scientific Officer	BRRI Regional Station, Sonagazi, Feni.	16.06.2005	13.07.2006	Research, Administration and Management etc.
Senior Scientific Officer	Farm Management Division, BRRI, Gazipur.	13.07.2006	28.04.2010	Research, Administration and Management etc.
Principal Scientific Officer	BRRI Regional Station, Rajshahi.	29.04.2010	25.07.2010	Research, Administration and Management etc.
Principal Scientific Officer & Head	BRRI Regional Station, Rajshahi.	26.07.2010	3.12.2010	Coordination, Research, Administration and Management etc.

Principal Scientific Officer & Deputy Director (Admin.) Additnl. Charge	BRRI, Gazipur	03.01.2011	06.01.2013	Administration, Coordination and Management etc
Principal Scientific Officer	Farm Managent Division, BRRI, Gazipur	07.01.2013	20.11.2019	Research, Administration and Management etc.
Chief Scientific Officer	Farm Managent Division, BRRI, Gazipur	21.11.2019	Till to date	Research, Administration and Management etc.

### 13. Publications (SO to PSO):

<b>(A) Scientific Journals: Full papers (International): 09</b>				
<b>As Principal Author (1)</b>				
1.	<b>Md. Sirajul Islam</b> , Md. Mamunur Rashid and Setara Begum. 2019. Effect of Lopping on Lodging, Productivity and Labor utilization for Rice Cultivation at Transplanting Aman Season. <i>Asian Plant Res. J. APRJ.45839. 2(2): 1-5.</i>			
<b>As Co-Author(8)</b>				
1	Alam MZ, Crump AR, Haque MM, <b>Islam MS</b> , Hossain E, Hasan SB, Hasan SB and Hossain MS. 2016. Effects of Integrated Pest Management on Pest Damage and Yield Components in a Rice Agro-Ecosystem in the Barisal Region of Bangladesh. <i>Front. Environ. Sci. 4:22.</i> doi: 10.3389/fenvs.2016.00022. Online at: <a href="http://journal.frontiersin.org/article/10.3389/fenvs.2016.00022">http://journal.frontiersin.org/article/10.3389/fenvs.2016.00022</a>			
2	Khatun, A., Rashid, M.H., Mollah M.I.U., Khan, A.H., <b>Islam, M.S.</b> and Elahi, N.E. 2001. Performance of rabi crops intercropping with wheat at different planting geometry. <i>Online J. Biol. Sci. 1(11): 1103-1105.</i>			
3	Hossain, M. M., Shahjahan, M., Prodhana, A.K.M.A, <b>Islam, M.S.</b> and Begum, M.A. 2002. Study of anatomical characters in relation to resistance against brinjal shoot and fruit borer. <i>Pakistan J. Biol. Sci. 5(6): 672-678.</i>			
4	Khatun, A., Mollah, M.I.U, Rashid, M.H., <b>Islam, M. S.</b> and Khan, A. H. 2002. Seasonal effect of seedling age on the yield of rice. <i>Pakistan J. Biol. Sci. 5(1): 40-42.</i>			
5	Islam, M.F., Karim, S. M.R., Haque, S.M.A., <b>Islam, M.S.</b> and Islam, M.S. 2003. Effect of populationof density of <i>Echinochloa crusgalli</i> and <i>Echinochloa colonum</i> on rice. <i>Pakistan J. Agron. 2(3): 120-125.</i>			
6	Halder, K.P., Satter, S.M.A., <b>Isalm, M.S.</b> and Chowdhury, M.J.U. 2003. Effect of planting dates on phenological events of transplanted aman rice. <i>Pakistan J. Agron. 3(2): 90-93.</i>			
7	Shahadat Hossain, M., Ayub Ali, M, Moni, ZR, <b>Sirajul Islam, M,</b> and Islam, M.R. 2015. Effect of temperature and pH on the growth and sporulation of <i>Fusarium moniliforme</i> : causing bakanae disease of rice. <i>Sci. Agric. 11(3): 151-154.</i>			
8	M. P. Ali, M. N. Bari, S. S. Haque, M. M. M. Kabir, S. Afrin, F. Nowrin, <b>M. S. Islam &amp; D. A. Landis.</b> 2019. Establishing next-generation pest control services in rice fields: Eco-agriculture. <i>Sci Rep 9, 10180 (2019) doi:10.1038/s41598-019-46688-6. Nature.com</i>			
<b>Full papers (National): 28</b>				
<b>As Principal Author (8)</b>				
1	<b>Islam, M.S.,</b> Bhuiyan, A.K. M., and Chowdhury, M.J.U. 2003. Effect of younger seedlings and planting density on the growth and yield of rice planted in system of rice			

	intensification (SRI) method. Bangladesh J. Agril. Sci. 31(1): 105-110.	
2	<b>M S Islam</b> , K P Halder and M J U C Chowdhury. 2008. Effect of Crop Establishment Methods and Variety on the Yield of Rice in the Irrigated Ecosystem. Intl. J. BioRes. 4(3): 31-35.	
3	<b>M S Islam</b> , K P Halder, M J U Chowdhury, and A Khatun. 2008. Effect of Different Spacing on the Yield under System of Rice Intensification (SRI) Technique in T. Aman Season. Intl. J. BioRes. 4(4): 116-121.	
4	<b>M S Islam</b> , K P Halder, M J U Chowdhury and M A B Siddique. 2008. Labor Use Efficiency and Profitability of Irrigated Rice as Affected by Spacing and Method of Weed Control. Intl. J. BioRes. 4(5): 31-35.	
5	<b>M S Islam</b> , K P Halder, M J U Chowdhury and M A B Siddique. 2008. Productivity and Profitability of rice cultivation by direct seeding with different seed rates and transplanting with different spacing. Intl. J. BioRes. 4(5): 31-35.	
6	<b>M S Islam</b> , MAR Sarkar, K P Halder, M H Kabir and M T Islam. 2009. Yield and yield components of Rice as affected by spacing, seedling age and seedling density under modified system of Rice Intensification. Eco-friendly Agril. J. 2(11): 940-945.	
7	<b>M S Islam</b> , MAR Sarkar, K P Halder, A A Mamun and M S Islam. 2008. Effect of Seedling Age and Density on Labour Requirement and Growth and Yield of BRRI dhan29 under Modified SRI Practice. Eco-friendly Agril. J. 1(5): 243-247.	
8	<b>M S Islam</b> , MM Rashid, E Hossain, MSI Mamim, M Kamruzzaman and MA Hossen. 2016. Comparative study of BRRI dhan41 and local variety Rajasail under direct wet seeded method at coastal char land of Bangladesh. Eco-friendly Agril. J. 1(5): 88-92.	
<b>As Co-Author (20)</b>		
1.	Chowdhury, M. J.U., Bhuiyan, M. K.A., <b>Islam, M.S.</b> and Wadud, M.A. 2003. Effect of planting method and types of laborers on the productivity of rice and labor utilization. Bangladesh J. Agric. Sci. Vol. 1(1): 59-64.	
2	Rashid, M.H., M. S. Hossain and <b>Islam, M. S.</b> 2003. Production potential and profitability of cropping patterns in a village of Comilla district. Bangladesh J. Extn. Edn. Vol. 15 (1 & 2): 15-22.	
3	Salam, M.A., Sarkar, M.A.R., <b>Islam, M.S.</b> and M.M. kamal. 2003. Mixed cropping of aus rice with sesame under different seedling ratios and nitrogen rates. Bangladesh J. Agril. Sci. Vol. 31(1): 97-104.	
4	Islam, A., A., J. M. S. Karim, H. M. Khaled, <b>Islam, M. S.</b> and M. A. Mazid Miah: 2004. Arsenic sorption characteristics of four calcareous soils of Bangladesh. Bangladesh J. Sci. Foundation. 1(2): 81-85.	
5	Halder, K.P., Burrage, S.W. and <b>Islam, M.S.</b> 2004. Effect of drought stress and nutrient solution electrical conductivity (EC) on dry matter partitioning of rice plants. J. Bangladesh Agril. Univ. 2(2): 221-224.	
6	Kabir, M. H., N. Ferdous, M.F. Islam, <b>Islam, M.S.</b> and A. Khatun. 2004. Participatory Evaluation of an advanced line with Check Varieties of T. Aman Rice. J. Sci. Foundation. 2(1): 55-58.	
7	M A B Siddique, M S Kabir, <b>M S Islam</b> and F Yeasmin. 2008. Structure and performance of rice mills in some selected areas of Bangladesh. Intl. J. BioRes. 4(4): 46-51.	
8	M. F Islam, M.A R. Sarkar, <b>M.S. Islam</b> , S. Parveen and H R Mukul. 2008. Integrated Weed Management in Direct Wet Seeded Rice Using Drum-Seeder. Intl. J. BioRes. 5(4): 1-4.	

9	Mamun, M A A, M J U Chowdhury, K P Halder and <b>M S Islam</b> . 2008. Labor Requirement and Benefits of Rice Cultivation due to Weeding Methods and Spacing. <i>Eco-friendly Agril. J.</i> 1(4): 208-210.
10	Islam, M. T. and <b>M.S. Islam</b> . 2010. Effect of drought on T. Aman Rice Cultivation. <i>J. of Agril. Engineering. IEB.</i> 38(2): 89-92.
11	A B M Ziaur Rahman, <b>M.S. Islam</b> , M S Islam, A K Paul, M A Haque and M S Pervin. 2010. Effect of seedling age and number of seedlings on yield and yield components of rice. <i>Intl. J. BioRes.</i> 11(4): 8-11.
12	M S Islam, M E Harun, M G K Bhuiyan and <b>M S Islam</b> . 2008. Rice Varietal Marketing Scenario at Trading Level at Some Selected Sites of Bangladesh. <i>Eco-friendly Agril. J.</i> 1(5): 248-253.
13	Siddique, M. A. B., M. M. Rahman and <b>M. S. Islam</b> . 2008. Estimation of marketable and marketed surplus of rice in some selected areas of Bangladesh. <i>Bangladesh Rice J.</i> 14 (1& 2):79-86.
14	S Islam, A Haque, <b>M S Islam</b> , A Ansari and V Galea. 2015. Pathogenicity of <i>basidiomycete</i> fungi to prickly acacia and parkinsonia. <i>Eco-friendly Agril. J.</i> 8(08): 97-102 (August).
15	M H Rahman, <b>M S Islam</b> , M L B A Ousmani, M R Hasan and M R Karim. 2015. Study on yield and yield contributing characters of advanced hybrid rice lines. <i>Eco-friendly Agril. J.</i> 8(11): 106-109, 2015 (November).
16	MG Kibria, MF Haque, MS Islam and MA Hoque. 2015. Increasing crop productivity in coastal areas by proper management of potassium fertilizers. <i>Progressive Agriculture</i> 26(2): 115-121, 2015.
17	M. A. Salam, S. Hoshain, M. M. Karim and <b>M. S. Islam</b> . 2014. Effect of irrigation and variety on the performance of mustard. <i>Bangladesh j. crop sci.:</i> 25: 91–96.
18	Bodrun Nessa, Moin U. Salam, A.H.M. Mahfuzul Haque, Jiban K. Biswas, M. Abdul Latif, M. Ansar Ali, Tahmid H. Ansari, Montasir Ahmed, Nargis Parvin, M. Zakaria Bak, Subrima Islam, <b>M. Sirajul Islam</b> and Jean Galloway. 2015. Rice false smut disease at different flowering times. <i>Bangladesh Rice J.</i> 19(2 ):29-34, 2015
19	K P Halder, M R Manir, <b>M S Islam</b> and M M Rashid. 2017. Productivity and profitability of rice cultivation as affected by different nitrogenous fertilizer and weed control method. <i>Eco-friendly Agril. J.</i> 10(01): 1-06, 2017 (January).
20	Bir Jahangir Shirazy, A.B.M. Mostafizur, Lipiara Khatun, Amina Khatun, Md. Mamunur Rashid, <b>Md. Sirajul Islam</b> and Nadia Akter. 2019. Evaluation of salt tolerant winter rice variety for coastal region of Bangladesh. <i>Intl. J. Apld. Res.</i> (5): 63-66.
21.	K P Halder, <b>M S Islam</b> , M R Manir, and M A Ali. 2018. Moisture stress and different rates of nutrients on the growth and yield of rice. <i>Bangladesh Rice J.</i> 22(2): 23-30.
<b>(B) Books/Monographs/Bulletins</b>	
<b>Bulletins: As Co-Author</b>	
1.	M.J.U. Chowdhury, K.P.Halder and <b>M. S. Islam</b> . 2003. Bulletin about Activities of Farm Management Division. BRRI, Gazipur. 06 January, 2003.
2.	Karmakar B., M. A. Ali, T. H. Ansari, <b>M. S. Islam</b> and T. A. Aditya. 2012. <i>Khara Sahisnu BRRI dhan56 abong er Utpadon Projukti</i> . 2012. Publication no. 192. BRRI R/S, Shampur, Rajshahi-6212.

<b>(C) Seminar/Workshop/Symposium proceedings: As Co-Author</b>	
1.	Chowdhury, M.J.U., <b>M.S. Islam</b> and K.P. Halder. 2005. Farm management status and its impact on crop production and yield gap between research organization and farmer's field of Bangladesh. Paper presented in the 8 <sup>th</sup> Biennial Agronomy Convention, Bangladesh Soc. Argon., held on 26 May 2005, Shere-E-Bangla Agril. University, Shere-E- Bangla Nagar, Dhaka. Bangladesh. pp.101-106.
2.	S. Mondal, P. C. Cruz, A. M. Ismail, <b>M. S. Islam</b> , M. H. Kabir and A. Saha. 2018. Germination and other agronomic traits associated with flooding tolerance conferring by AG1 and AG2 QTLs under anaerobic rice field. Paper presented in the 17 <sup>th</sup> Conference of Agronomy Society of Bangladesh. Bangladesh Soc. Argon. held on 01 December 2018, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Salna, Gazipur. Bangladesh. pp.68.
<b>(D) Reports: As Co-Author</b>	
1.	Howlader, S.H., Mridha, M.A.J., Roy, B.C., <b>Islam, M. S.</b> , Kabir, H.M. Zakaria, M. and Seema, F.J. 2000. Stakeholder Analysis Report on Bhanga, Faridpur. <i>In: An initial prioritization of rice production issue within the context of the livelihoods of resource poor farm households.</i> Published by International Rice Research Institute (IRRI), Manila, Philippines and Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh. Pp. 1-26.
<b>(E) Popular article: As Principal Author</b>	
1.	<b>Islam, M.S.</b> and M.J.U. Chowdhury. 2004. <i>Dhaner Shis Kata Ledapoka Daman. Krishi Khatha Page. The Daily Jhugantor</i> published on 12.02. 2004. Dhaka. p. 17.
2.	<b>Islam, M.S.</b> , Halder, K.P. and Chowdhury, M.J.U. 2004. <i>Poverty and its relationship with Environment.</i> The Observer Magazine, The Daily Observer. 9 July 2004. p. 21.
<b>(F) Thesis (M. S.):</b>	
<b>Title: "Performance of Boro Rice under Modified System of Rice Intensification"</b>	

#### **14. Experiences: 22 years 11months & 11ays**

(a) Year of service at **Head Quarter as SO –CSO: 21 years 10 months and 11 days**

(b) Year of service at **out-station as SO and PSO: 1 Year and 27 days** (BRRI R/ S. Sonagazi, Feni) & **8 months** (BRRI R/S, Rajshahi).

#### **15. Research activities:**

- No. of Technology Developed: 12 (Twelve)
- No. of Patent Developed: None
- No. of Research Programme Developed: 35 (Thirty five)
- No. of Research Programme Supervised: 35 (Thirty five)
- No. of Research Programme Executed : 35 (Twenty five)

**15. (a) Technology developed which are summarized below:**

<b>Project No.</b>	<b>Name of Technology Developed</b>	<b>Present Status</b>	<b>Remarks</b>
<b>Project 1</b>	<b>Labor management</b>		
i)	Suitable method of labor supervision has been identified from direct supervision, indirect supervision, job contract and contractor's laborers. The contractor's labor could complete the job with shortest time. Quality of work labor of the institute is better for direct supervision.	Findings are used for rice production at BRRI and other agricultural farms.	Agricultural research farms are being benefited. Information could be used for planning and policy making
ii)	Early of the day i.e., 6 am to 8 am are the productive hour for laborer's work. Male laborers are better for harvesting and females are for weeding and winnowing of rice.	Findings are used at BRRI and commercial rice growers/farmers.	Policy maker(s) can use for planning and managers can use for farm production practices
iii)	Demographic background of laborers effected agricultural works. Literate laborers are better for operations of rice cultivation. Moreover, 20-30 years age group is more efficient for the operations of rice production practices.	Findings are useful for planning, policy making and for rice growers.	Useful for planning, policymaking and the farmers.
<b>Project 2</b>	<b>Rice production Management</b>		
i)	Comparing line and haphazard transplanting, it was determined that haphazard transplanting could save labor cost (14%) and time.	Farmers and commercial cultivation of rice can use it.	Not necessary to enforce farmer(s) for line transplanting.
ii)	Direct sowing of rice seeds could save labor cost and reduced growing period without affecting yield significantly compare to transplanting method.	Findings can be used in commercial farm and are being used in the farmer's field.	Farmers are being benefited and rice production cost can be reduced.
iii)	Ten to 15% labor was saved in drum seeding method of rice compared to transplanting method has identified.	Many farmers in different location of Bangladesh are using drum-seeding method.	It is a cost saving method.
iv)	Algae control in rice field by using copper sulphate @ 100 gm per 10 liters of water at 25 days after transplanting has been identified for better growth and yield of rice.	Technologies are used at BRRI and rice growers.	Information is used for better planning and rice production management practices.
v)	Closer spacing (25-cm×15-cm) and older seedlings (50-60 d) are better for late T. aman season.	Techniques are used at BRRI and at farmer's level.	Rice growers will be benefited.

vi)	Lopping (cutting 8-10 cm upper portion of leaf) at 30 to 45 DAT can reduce the lodging tendency of rice.	Farmers and BIRRI have been using this technique to reduce lodging tendency of taller cultivars.	Rice growers will be benefited.
vii)	Comparatively, the highest grain yield and harvest index obtained from 20-day old seedling among 10, 15 and 20-day old seedling and seedling density hill <sup>-1</sup> didn't differ for most of the yield attributes of BIRRI dhan29.	Farmers and commercial rice cultivators can use it.	Farmers and commercial rice growers will be benefited
viii)	Mixed cropping of aus rice (cv. BR24) with sesame exhibited better performance in Kharif season in terms of productivity and economic returns in comparison to the sole cropping of each crop.	Farmers can use it.	Farmers and rice growers will be benefited
ix)	The highest grain yield was obtained from 45-days old seedling in T. aman and Boro season and 77% and 68% yield variations due to seedling age for both the season.	Farmers and researchers can use it.	Farmers and rice growers will be benefited
x)	Water stress at reproductive phase, most of the dry matter (37-46%) remains in stems and (24-34%) of the dry matter moves to panicle has also been identified.	The researchers for conducting research in upland situation have been using this information.	Findings are useful for researchers at the water limiting areas.
<b>Project 3</b>	<b>Weed control</b>		
i)	Mechanical and manual weeding has no significant different effect at early stage of rice growth (38-48 DAT). Manual weed control is desirable in our socio-economic situation.	Technique is practiced at BIRRI. Farmers of Bangladesh generally, practice manual weeding.	Not necessary for enforcing mechanical weed control.
ii)	It was identified that the number and intensity of weed infestation especially annuals weed decreases according to the descending of land elevation.	Farmers and researchers can forecast for controlling weed species.	Farmers and researchers can forecast for controlling weed species.
iii)	One rotary weeding with one hand weeding could control weed for rice cultivation at early stage (40-50DAT).	This combination can be utilized for rice cultivation.	Farmers will be benefited
<b>Project 4</b>	<b>Cost of rice cultivation</b>		
i)	Cost of rice cultivation has been determined for different operations.	Information is used for planning of rice cultivation	Planning and policy making will be easier.

ii)	Cost of rice cultivation for different seasons has been assessed. It was higher in boro season followed by Aus and T. aman. Higher cost in boro season is mainly due to higher requirements of irrigation water.	Information is used for planning and policy making of rice cultivation.	Farmers and planners will be benefited.
<b>Project 5 Survey and Monitoring laborers wage rate</b>			
i)	Laborers wage was surveyed and monitored at different locations of Bangladesh and found that average wage rate per day varied from Tk. 115 to 120 for 8 hrs works per day around BRRRI HQ and TK. 90-110 at around BRRRI Regional Stations.	Information is used for policy making and planning of agricultural program.	Farmers and planners will be benefited.
<b>Project 6 Green Manuring</b>			
i)	Incorporation of dhaincha and azolla into the soil are the good alternatives of the synthetic nitrogen.	These techniques can be used for rice cultivation.	Farmers and rice growers will be benefited.
ii)	Maximum benefit from green manuring by dhaincha can be obtained from March- June sowing.	This is practiced at BRRRI as well as by many farmers.	Techniques are used at BRRRI farm and can be benefited by the farmers.
<b>Project 7 Operation of tillage implements</b>			
i)	Traditional tillage implements like country plough and spade are useful for tilling smaller plots of land where, tractors and power tiller for bigger plots.	Traditional implements can be used by the small farmers and bigger implements by commercial and research farms.	Farmers, research organizations and commercial rice growers will be benefited.
<b>Project 8 Farm Management of BRRRI</b>			
i)	Farm Management of BRRRI, i.e., management of land, labor, office garden, agricultural implements and extended support services to other research divisions.	Management of land labor and farm implements and post harvest operations of crop at BRRRI.	Smooth running of management activities that enhances research activities of BRRRI and ultimately achieved the national goals.
<b>Project 9 Development of Plough pan of BRRRI Farm</b>			
i)	Developed damaged plough pan of some plots of BRRRI farm by alternate drying and cultivation of rice.	Damaged plough pan of BRRRI Farm in many plots have been developed	Rice farmers can use this technology for developing damaged plough pan of rice field.
ii)	Blocked entrance of rain water and industrial in the field by making ails and	Developed some area of BRRRI Farm.	Farmers can use this technique for

	developing drainage system for the development of plough pan.		better management.
<b>Project 10</b>	<b>Monitoring water logging at BRRRI farm</b>		
i)	Monitoring of BRRRI farm problems showed that water logging is a serious problem and the highest inundation level in West Byde was 160-190 cm on September'2004 in plot no. 20, 21, 22 of block A and plot no. 10, 11 and 12 of Block B where the standing crops were affected extremely. Moreover, water logging in the East Byde is becoming a permanent problem of BRRRI farm. This is also an acute problem of this locality.	Information is being used for better planning of BRRRI farm and rice growers of the locality.	This information is helpful for the researchers of BRRRI and local people.

**15. (c), (d), (e) List of Research Programs(s): Developed, Supervised and Executed under different projects:**

**(a) Labor Management**

- i) Study the efficiency of different types of laborers for different operations of rice cultivation at the BRRRI Farm.
- ii) Monitoring the availability, types and wage rate of laborers in different locations of Gazipur area.
- iii) Study the gender issue and labor efficiency for profitability of rice cultivation.
- iv) Survey the existing labor wage rate at different places around BRRRI Regional stations.
- v) Study the efficiency of BRRRI laborers and contractor's laborers for different methods of rice weed control.
- vi) Comparison among direct seeding, drum seeding and transplanting method for rice growth, performances and labor utilization.
- vii) Survey and existing farm management practices for rice cultivation in farmer's field around BRRRI stations.
- viii) Study the effect of demographic background and age of laborers at BRRRI on rice cultivation.
- ix) Wider spacing and manipulation of younger seedlings per hill as a management practice on the labor requirements and yield of rice.
- x) Profitability and labor efficiency for rice cultivation as affected by spacing and method of weed control
- xi) Sources of N application and methods of weed control in respect to labor utilization for rice cultivation
- xii) Development of data base on laborers in different locations at Joydebpur area.
- xiii) Study the labor utilization trend at BRRRI farm.
- xiv) Survey the management problems of rice cultivation in the farmer's field.

**(b) Rice production Management**

- i) Study the effect of planting techniques on the growth, yield and labor utilization for rice cultivation.
- ii) Study the effect of land preparation with different implements on the growth and yield of rice.

- iii) Effect of higher spacing and younger seedlings on the growth and yield contributing characters of rice.
- iv) Effect of tillage operations on the growth and yield of rice under wet land condition.
- v) Algae control in the rice field by management practices and its effects on the yield and yield contributing characters of rice.
- vi) USG application as a source of nitrogen for rice cultivation in large plots.
- vii) Study the effect of looping on the lodging, yield and labor utilization for rice cultivation.
- viii) Effect of sowing technique on the growth and yield of rice for dry and wet land preparation.
- ix) Performance of HYV rice under irrigated and rainfed condition as affected by land preparation with different implements.
- x) Drought stress and application of different rates of nutrient at different growth phases of rice.
- xi) Effect of wider spacing and date of planting with tender aged seedlings (SRI method) on labor requirements and yield of rice.
- xii) Performance of BRR1 dhan29 under system of rice intensification.
- xiii) Effect of foliar spray of MOP and elemental S for spot free seed production.
- xiv) Improvement of spikelet fertility through application of bio-decomposer.

**(c) Weed Management**

- i) Effect of ploughing and weeding methods on the labor utilization, growth and yield of rice.
- ii) Effect of manual and mechanical weeding on the growth and yield of rice.
- iii) Profitability and labor efficiency of rice as affected by spacing and method of control.
- iv) Study the effect of degree of land preparation on the growth of weeds at rice field.
- v) Effect of planting technique and weeding duration on labor requirements and yield of rice.

**(d) Cost of cultivation**

- i) Determination of cost of land preparation by different tillage implements.
- ii) Cost and return of HYV rice cultivation in research farm at different seasons.

**(e) Growing Green Manuring Crops**

- i) Produce Dhaincha and Sunhemp for land development.
- ii) Produce Khesari and Chickpea for land deployment.

**(f) Rice Post harvest management practices**

- i) Study the efficiency of laborers and suitability of different rice thresher.

**(g) Seed production**

- i) Seed (TLS) production of BRR1 rice varieties in different seasons.
- ii) Breeder seed production of various varieties in different seasons.
- iii) Production of different crops in the BRR1 farm depending on availability of land and other facilities.

### 16. Management of Research Station/Division/Program(s):

Name of Research Station/Division/ Program(s) managed	Present status	Remarks
i) Management of BRRRI R/S, Rajshahi as an In-Charge from 26 October 2010 to 26 November 2010.	-	Administration, Research, Coordination and Management
ii) Coordination and Management of Administration Division at BRRRI HQ, Gazipur as Deputy Director (Admin.) Additnl. Charge from 03 December 2010 to 07 January 2013.	-	Administration, Coordination and Management
iii) Research /Coordination or cooperation for labor management and mass production of rice seed at HQ and Regional Station Sonagazi & Rajshahi.	Continued	Research and Management
iv) Monitoring laborer wage rate around Regional Stations of BRRRI & HQ.	Continued	Research and Management
iv) Supervision and management of the mass production of rice seed (truthful level) by BRRRI and contractor's laborers at HQ and Sonagazi & Rajshahi Regional Station.	Continued	Research and Management
vi) Supervision and management of BRRRI laborers	Continued	Research and Management

### 17. Monitoring and Evaluation:

How many programs were Monitoring/ Evaluated	Monitoring/Evaluation Report	Remarks
i) Monitored the labor's wages around the BRRRI Stations throughout the year from 1998 (about 75 spots have been monitored).	Submitted to the authority/ published in the different reports of BRRRI.	Continued. Used for planning and policymaking.
ii) Monitored and evaluated the laborer's works for recruiting as efficient labor.	Submitted to the authority and helped in decision making.	Continued. Used for planning and policymaking.
iii) Mass Production of Rice seed (truthful level) of BRRRI varieties at HQ and Sonagazi Regional Station.	Published in BRRRI Annual and Internal Review Report.	Continued. Helping for dissemination and popularizing of BRRRI varieties to the end users.
iv) Monitored the SPDP (Seed production and dissemination program) at different districts of Bangladesh with DAE.	Submitted to the authority/ published in the different reports of BRRRI.	Helping for dissemination and transfer of BRRRI varieties to the end users.
v) Survey and monitored the disease and insect infestation of T. aman rice at BRRRI-Sonagazi R/S and Feni district.	Submitted to the authority/ published in the different reports of BRRRI.	Used for planning and uptake of research program for better mgt. and production of rice.

### 18. Preparation of Technology Transfer Modules

Visited field with BRRRI scientists, extension people and farmers to see the performance of farming system research, BRRRI advance lines, direct seeded rice using drum seeder, SPDP program at

different districts and exchanged views and ideas with each other about the performance of drum seeder. However, the technology transferring systems where I involved are summarized below:

<b>Technology transfer systems</b>	<b>Adoption Status</b>	<b>Remarks</b>
(i) Participated technology development process of BRRI.	Farmers/ related persons adopted the technologies.	Rice growers/ related persons would be benefited.
ii) Research results on management and research findings published in the Scientific Journals.	Farmers, scientists, academicians and related persons can use this information.	Rice growers/ related persons/ academicians/ researchers can be benefited.
iii) Popular articles	Farmers/related persons can use this techniques/findings.	Rice growers/related persons are being benefited.
iv) Worked for different committee/meeting of the technology development and transfer systems of BRRI.	Farmers/related persons adopted the technologies.	Rice growers/ related persons would be benefited.
v) Personal communications	Farmers/ related persons adopted the technologies.	Rice growers/ related persons would be benefited.
vi) Attended the different divisional programs building meeting of BRRI, Farmers day, demonstration etc.	Farmers/ related persons adopted the technology.	Rice growers and related persons are being benefited.
vii) Personal communication with the farmers, related persons, academicians, research organization, extension peoples etc.	Farmers, scientists, researchers and educationists.	Farmers, Scientists Researches, and educationists.
viii) Offered courses and take classes of training courses at BRRI	Farmers, scientists, researchers, educationists, extension workers used the disseminated technologies.	Farmers, scientists researches, educationists, and extension workers.
ix) Actively participated in the tree plantation.	Mass people of the locality were aware of the tree plantation program and are being benefited.	These can help for the production plant and improvement of environment.
x) Bulletin about Farm Management Division of BRRI.	Mass publicity to all levels of people	All people related with rice production research and education will be benefited.

#### **19. Resource Person in Training Program:**

1. M.J.U. Chowdhury, **M.S. Islam** and K.P.Halder. 2003. Worked as a Trainer of Assistant Agricultural Officer of DAE for "Rice production Management" training course organized by BRRI, held on 3 March, 2003. The Topic was "Compost preparation and its application".
2. M.J.U. Chowdhury, **M.S. Islam** and K.P.Halder. 2003. Worked as a Trainer of Assistant Agricultural Officer of DAE for "Rice production, Communication and Office Management" training course organized by BRRI held on 03 March 2003. The Topic was "Green manure, farm yard manure and azolla for crop production".

3. **M. S. Islam.** 2005. Demonstrated of Yield Optimization of BRRI varieties exhibition plots in the Farmers field with DAE people and Farmers Rally/Field-day at the BRRI R/S Sonagazi, Feni, held on 9 December'2005.
4. Worked as a trainer of the different farmers training which was held in the BRRI R/S. Rajshahi and Sonagazi.

**20. Action plan preparation:**

<b>Action Plan participated</b>	<b>Present status</b>	<b>Remarks</b>
(a) Socio-economics and Policy Program of BRRI.	Continuous process for research planning and execution of the related divisions of BRRI.	Decided the policy of research of the related area.
(b) Condemnation Committee of BRRI	Continuous process	Attended and represent the Head of FMD.
(c) Preparation and updating the Book of Technology for Post-Flood Agricultural Rehabilitation Programs headed by Member Director (Crops), BARC.	Compilation and finalization is going on.	Attended the meeting and worked as a member in favor of BRRI.

**21. Member in national committee/Different Committee, etc.:**

- i) Worked as a member of World Food Day committee.
- (ii) Worked as a member of the different Organizing Sub-Committee to organize BRRI Annual Internal Review in various years.
- (iii) Worked as a member for Food Distribution and Information center Sub-Committee to the guests in the “*Krishi Karmi Maha Sammelan*” at BRRI-BARI, Gazipur where Honorable Prime Minister of the Peoples Republic of Bangladesh attended
- iv) Worked as a member & member secretary of the Organizing Committee of BRRI in different Agriculture, Agricultural Technology and World Food Fair.
- v) Participation and worked as an active member for Preparation and Updating Committee of the Book of Technology for Post-Flood Agricultural Rehabilitation National Programs in favor BRRI.
- vii) Worked as a member & member secretary of the Organizing Committee of BRRI for observing various National and International day: 15 August- National Mourning Day, 26 March - Independence Day, 16 December-Victory Day, 21 February & International Mother language Day, International Rice Year’ 2004, National Rice Day, etc).
- vii) Worked as Convenor & Member of different Examination, Scrutenning & Evaluation Committee for the recruitment of scientists (SO, SSO, PSO), Officers and staffs of BRRI and also worked as Member Sectrary of DPC- 2 of BRRI.
- viii) Worked as Member Secretary and member of Traininig operation committee, Tender Opening & Tender Evaluation committee, Technical Evaluation Committee, Procurement & Repairing, Mosque Committee and many enquiry committee of BRRI HQ;
- ix) President of Environment, Mosque Committee, House allotment, Tender and Auction, Procurement and Repairing, Storing of Farm products of BRRI Regional Station, Sonagazi and Rajshahi, respectively.

## **22. Any other Relevant Activities/ Information:**

- i)** Participation in Seed production and Development program (SPDP) at different Seasons in the different Districts for dissemination of BRRRI varieties.
- ii)** Worked as an assigned officer for production of seedling of T. aman rice of the National Program for Post Flood Agril. Rehabilitation under BRRRI part.
- iii)** Participation and worked as a member of the Organizing Committee of BRRRI in different Agriculture, Agricultural Technology and World Food Fair.
- iv)** Participation and worked as an active member for preparation and updating of the Book of Technology for Post-Flood Agricultural Rehabilitation Programs from BRRRI.

## **23. Outstanding performances:**

### **(a) General Farm Management:**

- i)** Working in the Farm Management Division of **BRRRI HQ and Regional Stations** since August 1998 with different capacities and contribution for the development of the research program and management activities of the division.
- ii)** Assist the Head of Farm Mgt. Division and Head of BRRRI Regional Stations to co-ordinate and execute the activities of Farm Management Division of BRRRI HQ and Regional Stations and maintenance of farm implements, management of personnel of the division, labor force, farm land, rice production practices and mass production of rice seed (truthful level), breeder seed at BRRRI HQ and Regional Station, Sonagazi and Rajshahi.
- iii)** Planning, designing and executing the research program on Farm Management aspects and rice crop of BRRRI.
- iv)** Preparation and reporting of research program and other activities of the Farm Management Division as well as BRRRI R/S, Sonagazi.
- v)** Prepare divisional part of BRRRI Annual Review workshop and Annual Report and present Annual Research Review Workshop and other reports for Farm Management Division.
- vi)** Counseling and advisory service to the farmers about rice production management, insect-pest and disease mgt., weed mgt., fertilizer mgt., rouging, rice quality seed production, rice harvesting and post harvest activities.
- vi)** Assist the Head of all BRRRI Regional Stations for Farm Management and Labor Management policy, activities as well as BRRRI authority.
- vii)** Assist the Head of the FM division & authority for formulating related policy matter of the Farm Mgt. Division and institute.
- viii)** Coordination of Labor management for all regional stations of BRRRI.
- ix)** Delivered lectures and offered training courses for different training programs organized by BRRRI HQ and Regional Station
- v)** Worked as a member and chairman of the different committee of BRRRI HQ and Regional Station (Sonagazi and Rajshahi).

### **(b) Support Services to other Divisions:** Extended Support Services to other Divisions of BRRRI. Some of the are:

- i)** Management of land, labor and farm implements.
- ii)** Management of rice and rice seed production practices at BRRRI HQ. and R/S Sonagazi and Rajshahi.
- iii)** Post harvest operations of rice at BRRRI.
- iv)** Labor management policymaking and execution.
- v)** Irrigation and water management of BRRRI farm.
- vi)** Management of BRRRI garden

- vii) Management of Deep Tube-well.
- viii) Management of draft animal.

**24. Workshop:**

- i) Attended HYV workshop of BIRRI-DAE held at BIRRI.
- ii) Attended BIRRI-IRRI and PETRRA workshop held at BIRRI and Dhaka.
- iii) Attended the workshop of Experiences with Direct Wet-Seeded Rice Using Drum Seeder held at BIRRI and
- iv) Attended the Final workshop on CDSP-II (DAE Part) held at Noakhali.
- v) Attended the different national & international workshop held at BIRRI and Dhaka organized by BIRRI, BARC, DAE and MoA.

**25. Seminar/Symposium:**

Attended in different seminars/symposiums at BIRRI, BARI, BARC and DAE organized by MoA and other Institutions of NARS.

**26. Any other relevant information:**

**a) Language Proficiency:**

Language	Proficiency		
	Reading	Writing	Speaking
Bangla	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

**b) Membership of the Professional Societies:**

- i) Bangladesh Society of Agronomy (Life Member).
- ii) Bangladesh Association for The Scientists and Scientific Profession (Active Member)
- iii) Weed Science Society of Bangladesh (WSSB) (Active member)
- iv) *Krishibid* Institution of Bangladesh (KIB) (Life Member).
- v) BIRRI Scientist's Association (Active Member).
- vi) BIRRI Officers Club.

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