



Transformation of Research & Development Activities of Farm Management Division

INTRODUCTION

- ❖ The Farm Management Division (FMD) was established at the inception of BRRI in 1970
- ❖ This Division is one of the components of the Socio-Economics and Policy Program Area of BRRI
- ❖ FMD carries out research in addition to management and services support for the institute.

ভিশন:

ব্রিগ গবেষণা মাঠ, শ্রমিক ব্যবস্থাপনা, আগাছা ব্যবস্থাপনা, পানি ব্যবস্থাপনার উন্নয়ন এবং লাভজনক ধান উৎপাদন প্রযুক্তি উদ্ভাবন

মিশন:

সঠিক ব্যবস্থাপনা ও উন্নত প্রযুক্তি ব্যবহার করে কম খরচে ধান উৎপাদন বৃদ্ধির মাধ্যমে খাদ্য নিরাপত্তা অর্জনে সহায়তা করা

Research

Management and
Support Services
for the Institute

Beautification of
BIRRI

Mandate

Management
Services for Other
Research Divisions

Land and labor
management

Seed Production

Scientific Manpower

Approved Post	Head Quarter		Regional Stations	
	Present	Vacant	Present	Vacant
CSO-1	1	0	0	0
PSO-2	0	1	1	0
SSO-2	2	0	0	0
SO-3	2	0	1	0
Total-8	5	1	1	0

Divisional Heads of FMD

Name	Designation	Charge period	
		Start	End
Dr. S. B Siddique	CFS	22.12.1972	27.05.1974
Md. Abu Yousuf	CFS	28.05.1974	02.09.1978
Aminul Haque Khan	CFS	03.09.1978	02.07.1981
Md. Jahan Ullah Chowdhury	CFS	03.07.1981	26.07.1981
Aminul Haque Khan	CSO	27.07.1981	06.09.1981
Md. Jahan Ullah Chowdhury	SO	07.09.1981	10.10.1981
Aminul Haque Khan	CSO	11.10.1981	16.02.1990
Md. Abu Yousuf	CSO	17.02.1990	30.01.1992
Tara Chand	PSO	31.01.1992	25.09.1994
Mir Md. Muniruzzaman	SSO	26.09.1994	21.12.1994

Divisional Heads of FMD

Name	Designation	Charge period	
		Start	End
Dr. Md. Jahan Ullah Chowdhury	SSO	22.12.1994	15.06.1996
Dr. Md. Jahan Ullah Chowdhury	PSO	16.06.1996	03.08.2003
Dr. Krishna Pada Halder	SSO	04.08.2003	15.08.2003
Dr. Md. Jahan Ullah Chowdhury	PSO	16.08.2003	20.05.2005
Dr. Md. Jahan Ullah Chowdhury	CSO	21.05.2005	02.04.2010
Dr. Krishna Pada Halder	PSO	03.04.2010	23.08.2013
Dr. Krishna Pada Halder	CSO	24.08.2013	06.01.2020
Dr. Md. Fazlul Islam	PSO	07.01.2020	06.07.2020
Md. Sirajul Islalm	CSO	07.07.2020	Till

Photo of Divisional Heads of FMD



Dr. S. B Siddique

Md. Abu Yousuf

Md. Aminul Haque Khan



Dr. Mohammed Jahan Ullah Chowdhury



Tara Chand

Mir Md. Muniruzzaman



Dr. Krishna Pada Halder



Dr. Md. Fazlul Islam



Md. Sirajul Islam

Some technologies developed by FMD

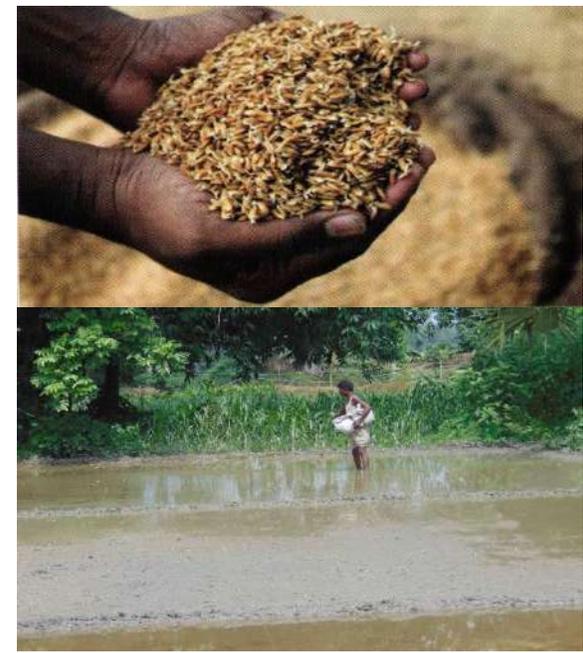
Technology 1: Aus rice cultivation by dibbling method in coastal saline areas

Out of 2.83 million ha of coastal land in Bangladesh about 0.83 million ha are affected by different levels of salinity. Seed dibbling is a popular and effective method of establishing Aus rice in the saline char lands. In this method, 25-30 days after emergence, half of the seedlings are uprooted from a field during the first or second rain and transplanted in another field. This does not affect rice yield in either field. This technology is suitable for the sandy loam or loamy soils of the greater Noakhali region.



Technology 2: Proper steeping and hatching of rice seeds to enhance seed germination capacity

Farmers buy rice seeds at a high price, but they do not soak the seeds properly, resulting financial loss. The optimum combination of steeping for 12 hours and hatching for 12 hours is an appropriate method of seed processing before sowing in puddled seedbeds. This enhances seed germination.



Technology 3: Proper age of seedlings for rice production

The yield of rice depends largely on the age of the seedlings at transplanting time. Many rice farmers are not aware of the need to transplant seedlings of an optimum age. In Aus and T. Aman seasons, transplanting 15 to 20 d old seedlings gives the best results in terms of tiller and panicle production and ultimately yield of rice.



Technology 4: Proper tillage for land preparation to grow rice



In Bangladesh, various types of tillage machines are useful in land preparation. Most farmers resort to excessive tillage to control weeds, which damages plough pan and affects soil quality. In Gazipur, just one ploughing and manual removal of weeds or herbicide application followed by one more ploughing and laddering are sufficient to prepare land for rice production.

Technology 5: Control of algae in rice field by copper sulfate spray

Invasion of paddy fields by algae is a perpetual problem of rice production in Bangladesh. Spraying a copper sulfate solution (100g copper sulfate in 10 L water/ha) to the field 25 days after rice transplanting can control algae and improve rice growth and yield.





1970 to 2020

TLS Produced: 413 ton

Deposited to store: 307 ton

Distributed: 98 ton

(to farmer, researcher & DAE, BADC)





Breeder Seed
2010 to 2020
(10 Years)
Produced: 65 ton



1970-1980

- **Land Development**
- **Land Blocking & Plotting**
- **Seed Production**
- **Labor Hiring on Daily Basis and Cash Payment**
- **Research on Labor efficiency and weed control**

1981-1990

- **Land Development**
- **TLS Production**
- **Appointment of Regular Labor and Labor Hiring on Monthly Basis and Cash Payment.**
- **Research on Labor Skill Development & Management System, Seed Germination, Land Preparation, Algae and Weed Control, and Green Manuring**

1991-2000

- **TLS Production**
- **Irregular/Seasonal Labor Hiring and Wage Payment by Cash, Appoint contractors for intercultural operations of seed production plots.**
- **Research on Labor Skill Development & Management System, Land Preparation, Planting Method, Yield Gap, System of Rice Intensification, and Green Manuring.**

2001-2010

- **TLS Production**
- **Appointment of Regular and Irregular Labor and Wage Payment by laborer's Bank Account**
- **Research on Labor Skill Development & Management System, Land Preparation, Planting Method, Algae and Weed Management, System of Rice Intensification, and Green Manuring.**

2011-2020

- **TLS and Breeder Seed Production**
- **Appointment of Regular and Irregular Labor and Wage Payment by Labor Management System (LMS)**
- **Research on Labor Skill Development & Management, Land Preparation, Yield Gap, Planting Method, SRI, Seed Quality, Cost and Return of rice production, Green Manuring and Organic fertilizer.**

ON GOING ACTIVITIES

- **TLS and Breeder Seed Production**
- **Executing Labor Management System (LMS)**
- **Research on Labor Skill Development & Management, Organic and Green Manuring, Seed Quality and Mechanical Transplanter cum fertilizer applicator, Crop Management, Land Development, Soil health improvement, etc.**

Mosquito control activities in BRRI office premises





Tree Plantation and Management of Trees

Beautification of BRR



Beautification of BRRI



Beautification of BRRI



SHOT ON POCO X3 NFC

SHOT ON POCO X3 NFC

Beautification of BRRI



FUTURE RESEARCH THRUST OF FMD

- **Development of an Ideal farm**
- **Develop plough pan for using farm machineries**
- **Automated irrigation and drainage system**
- **Surface water harvesting**
- **Development of Modern Farm Management System (MFMS) for smooth farm activities**
- **Efficient use of farm resources**
- **Skill development of farm personnel**
- **Farm management to face climate change effect**

Legend:

- Plot demarcation line
- Irrigation Channel
- Road and drainage

- Working facility area
- Threshing floor



Future plan of BIRRI farm



Thank You