Annual Research Programme

(2015-16)

Adaptive Research & Extension Division

PROGRAMME AREA: TECHNOLOGY TRANSFER AND IMPACT ASSESSMENT

Project -1 : Adaptive Trials/Block Farming with rice varieties developed by BINA

Objectives :
a) To assess the technologies/rice varieties in special situations or sites evaluating farmers reactions
b) To demonstrate the specific advantages of crop production technologies/released rice varieties
c) To encourage farmers for adopting the crop production technologies/ released rice varieties
d) To provide feedback information to concerned scientists about their technology
e) To establish relationship between BINA and Extension Agencies

Personnel assigned:

Dr. A F M Feroj Hasan	SSO & PI	Md. Abdul Haque	SA-I
Shamima Begum	SSO	Md. Moshiur Rahman	SA-I
A. H. M. Quamruzzaman,	ASO	Md. Mojibar Rahman	SA-I
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Experimental details:

Experiment 1 : Adaptive trials with Aman rice, Binadhan-7, Binadhan-15, Binadhan-16 and Binadhan-17 in collaboration with the DAE

Objectives: :
a) To trial the performance of Binadhan-7, Binadhan-15, Binadhan-16 and Binadhan-17 to farmers field under different AEZ of Bangladesh
b) To identify suitable areas for extensive promotional work
c) To encourage the farmers for cultivation of Binadhan-7, Binadhan-15, Binadhan-16 and Binadhan-17

Growing season : Aman season

Treatments
i) Binadhan-7, Binadhan-15, Binadhan-16 and Binadhan-17
ii) Check variety BRRI dhan56/57

Expt. design : Non-statistical

Number of replication : Total Number of Adaptive trial with Binadhan-7, Binadhan-15, Binadhan-16 and Binadhan - 17

Location : Described in Table No**.** 1, p. 4

Area : Total area for an Adaptive trial = 1 bigha

Data to be recorded :
- Date of sowing, transplanting and maturity
- Grain yield
- Reactions: farmers and extension workers views

Source of Fund : GOB

Experiment 2 : Adaptive trials with submergence tolerant T. aman rice, Binadhan-11 and Binadhan-12 in collaboration with the DAE

Objectives: :
a) To trial the performance of Binadhan-11 and Binadhan-12 to farmers field under different AEZ of Bangladesh
b) To identify suitable areas for extensive promotional work
c) To encourage the farmers for cultivation of Binadhan-11 and Binadhan-12

Growing season : Aman season

Treatments : i) Binadhan-11 & Binadhan-12, ii) Check variety BRRI dhan51/52

Expt. design : Non-statistical

Number of replication : Total Number of Adaptive trial with Binadhan-11 and Binadhan-12

Location : Described in Table No. 1, p. 4

Area : Total area for an Adaptive trial = 1 bigha

Data to be recorded	:	• Date of sowing, transplanting and maturity • Grain yield • Reactions: farmers and extension workers views
Source of Fund	:	GOB
Experiment 3	:	**Adaptive trials with Aromatic rice, Binadhan-13 in collaboration with the DAE**
Objectives:	:	a) To trial the performance of Binadhan-13 to farmers field under different AEZ of Bangladesh b) To identify suitable areas for extensive promotional work c) To encourage the farmers for cultivation of Binadhan-13
Growing season	:	Aman season
Treatments		i) Binadhan-13 ii) Check variety BRRI dhan50
Expt. design	:	Non-statistical
Number of replication	:	Total Number of Adaptive trial with Binadhan-13
Location	:	Described in Table No**.** 1, p. 4
Area	:	Total area for an Adaptive trial = 1 bigha
Data to be recorded	:	• Date of sowing, transplanting and maturity • Grain yield • Reactions: farmers and extension workers views
Source of Fund	:	GOB
Experiment 4	:	**Adaptive trials with salt tolerant Boro rice, Binadhan-8 and Binadhan-10 in collaboration with DAE**
Objectives:	:	• To demonstrate the performance of salt tolerant variety, Binadhan-8 and Binadhan-10 to farmers in different AEZ of Bangladesh • To identify suitable areas for extensive promotional work • To encourage the farmers for cultivation of Binadhan-8 and Binadhan-10
Growing season	:	Boro season
Treatments		a) Binadhan-8 b) Binadhan-10 c) BRRI dhan64
Expt. design with	:	Non-statistical
Number of replication	:	Total Number of adaptive trials of Binadhan-8 & 10
Location	:	Described in Table No**.** 1, p. 6
Area	:	Total area for an Adaptive trial = 1 bigha
Data to be recorded	:	• Date of sowing, transplanting and maturity • Grain yield • Reactions: farmers and extension workers' views
Source of Fund	:	GOB
Experiment 5	:	**Adaptive trials with high yielding late transplanted Boro rice, Binadhan-14 in collaboration with DAE**
Objectives	:	a) To demonstrate the performance of late transplanted variety, Binadhan-14 to farmers in different AEZ of Bangladesh b) To identify suitable areas for extensive promotional work c) To encourage the farmers for cultivation of Binadhan-14
Growing season	:	Boro season
Treatments		a) Binadhan-14 b) BRRI dhan28
Expt. design	:	Non-statistical
Number of replication	:	Total Number of adaptive trials with Binadhan-14

Location : Described in Table No. 1, p. 4
Area : Total area for an Adaptive trial = 1 bigha
Data to be recorded :
- Date of sowing, transplanting and maturity
- Grain yield
- Reactions: farmers and extension workers' views

Source of Fund : GOB

Table 1. Summary of location and Number of Adaptive Trials for different rice varieties under Project-I

Variety / Location	Binadhan-7, 15 & 16	Binadhan-11 & 12	Binadhan-13	Binadhan-14	Binadhan-8 & 10	Total
Bagerhat					4	4
Bhola					4	4
Borguna					4	4
Cox's Bazar					4	4
Satkhira	4		4		4	12
Jamalpur		4				4
Kishorganj		4		4		8
Magura	4		4	4		12
Mymensingh	4	4	4	4		16
Tangail		4				4
Sherpur	4	4		4		12
Netrokona		4				4
Rangpur	4		4	4		12
Total =	**20**	**24**	**16**	**20**	**20**	**100**

Experiment 6 : Block Farming with improved short durative T. aman rice, Binadhan-7 in collaboration with DAE

Objectives :
a) To demonstrate the performance of Binadhan-7 to farmers in different AEZ of Bangladesh
b) To identify suitable areas for extensive promotional work
c) To encourage the farmers for cultivation of Binadhan-7 following T. aman-Rabi-Boro/Jute/Kharif-1 Cropping pattern for increased cropping intensity and profitability

Growing season : Aman season
Treatments: a) Binadhan-7, b) Best local variety
Expt. design : Non-statistical
Number of replication : Total Number of Block Farming = 200
Location : Described in Table No. 2, p. 6
Area : Total area for a Block Farming = 1 acre
Data to be recorded :
- Date of sowing, transplanting and maturity
- Grain yield
- Reactions: farmers and extension workers' views

Source of Fund : GOB

*** Note:** Additional amount of seeds of Binadhan-7 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 7 : Block Farming with improved submergence tolerant T. aman rice, Binadhan-11 in collaboration with DAE

Objectives : To demonstrate the performance of Binadhan-11 to farmers in different AEZ of Bangladesh
To identify suitable areas for extensive promotional work
To encourage the farmers for cultivation of Binadhan-11

Growing season : Aman season
Treatments : a) Binadhan-11
b) Best local variety

Expt. design	:	Non-statistical
Number of replication	:	Total Number of Block Farming with Binadhan-11 = 185
Location	:	Described in Table No**.** 2, 6. p
Area	:	Total area for a Block Farming = 1 acre
Data to be recorded	:	• Date of sowing, transplanting and maturity • Grain yield • Reactions: farmers and extension workers' views
Source of Fund	:	GOB

* Note : Additional amount of seeds of Binadhan-11 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 8	**:**	**Block Farming with salt tolerant boro rice, Binadhan-8 and Binadhan-10 in collaboration with DAE**
Objectives	:	a) To demonstrate the performance of Binadhan-8 and Binadhan-10 to farmers in different AEZ of Bangladesh b) To identify suitable areas for extensive promotional work c) To encourage the farmers for cultivation of Binadhan-8 and Binadhan-10
Growing season	:	Boro season
Treatments	:	a) Binadhan-8 and Binadhan-10 b) Best local variety
Expt. design	:	Non-statistical
Number of replication	:	Total Number of Block Farming with Binadhan-8 and Binadhan-10 = 400
Location	:	Described in Table No**.** 2, p. 6
Area	:	Total area for a Block Farming = 1 acre
Data to be recorded	:	• Date of sowing, transplanting and maturity • Grain yield • Reactions: farmers and extension workers' views
Source of Fund	:	GOB

* Note : Additional amount of seeds of Binadhan-8 and Binadhan-10 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 9	**:**	**Block Farming with high yielding late transplanted Boro rice, Binadhan-14 in collaboration with DAE**
Objectives	**:**	a) To demonstrate the performance of late transplanted variety, Binadhan-14 to farmers in different AEZ of Bangladesh b) To identify suitable areas for extensive promotional work c) To encourage the farmers for cultivation of Binadhan-14
Growing season	**:**	Boro season
Treatments		a) Binadhan-14 b) BRRI dhan28
Expt. design	**:**	Non-statistical
Number of replication	**:**	Total Number of Block Farming with Binadhan-14
Location	**:**	Described in Table No. 2, p. 6
Area	**:**	Total area for a Block Farming = 1 acre
Data to be recorded	**:**	• Date of sowing, transplanting and maturity • Grain yield • Reactions: farmers and extension workers' views
Source of Fund	**:**	GOB

Table 2. Summary of location and Number of Block Farming for different rice varieties under Project-I

Variety / Location	Binadhan-7	Binadhan-11	Binadhan-8	Binadhan-10	Binadhan-14	Total
Bagerhat			10	10		**20**
Barisal			10	10		**20**
Bhola			10	10		**20**
Bogra	10				10	**20**
Borguna			10	10		**20**
Bramhonbaria		18				**18**
Chittagong			10	10		**20**
Chuadanga	10				10	**20**
Cox's Bazar			50	50		**100**
Dinajpur	10				10	**20**
Faridpur	10				10	**20**
Feni			10	10		**20**
Gaibandha	10	9			10	**29**
Habigonj		9				**9**
Jamalpur		9				**9**
Jessore	10				10	**20**
Jhalakathi			10	10		**20**
Jhenaidah	5				5	**10**
Khulna			20	20		**40**
Kishoregonj	10	9			10	**29**
Kurigram	10	45			10	**65**
Kushtia	10				10	**20**
Lakhmipur			10	10		**20**
Lalmonirhat	10	9			10	**29**
Madaripur	10				10	**20**
Manikgonj	5				5	**10**
Moulabibazar		9				**9**
Mymensingh	10	9			10	**29**
Narail	10				10	**20**
Netrokona	10	9			10	**29**
Nilfamari	10	9			10	**29**
Noakhali			10	10		**20**
Pirojpur			10	10		**20**
Potuakhali			10	10		**20**
Satkhira			20	20		**40**
Serajgonj	10	9			10	**29**
Sherpur	10	20			10	**40**
Sylhet		9				**9**
Sunamgonj		9				**9**
Tangail	10	9			10	**29**
Thakurgaon	10				10	**20**
Total =	**200**	**200**	**200**	**200**	**200**	**1000**

Project II : Adaptive Trials/Block Farming with oil seeds and vegetable varieties developed by BINA

Objectives **:**
a) To assess the varieties in special situations or sites evaluating reactions of farmers and extension personnel
b) To demonstrate specific advantages of crop varieties to the farmers
c) To encourage farmers for accelerated adoption of crop varieties
d) To provide feedback information
e) To establish better relationship between BINA and Extension Agencies

Personnel assigned:

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Experimental details:

Experiment 10 : Adaptive Trials with newly released mustard variety Binasarisha-9 and Binasarisha-10 in collaboration with DAE

Objectives **:**
a) To demonstrate performance of Binasarisha-9 and Binasarisha-10 in different AEZ of Bangladesh
b) To identify the suitable areas for large scale demonstration
c) To encourage farmers for cultivation of Binasarisha-9 and Binasarisha-10

Growing season **:** Rabi season
Treatment **:** a) Binasarisha-9 and Binasarisha-10, b) Best local check variety
Experimental design **:** Non-statistical
Number of replications **:** Total Number of Adaptive Trials with Binasarisha-9 and Binasarisha-10
Location **:** Please see Table 3, p. 9
Area **:** Unit area for an adaptive trial = 1 bigha
Data to be recorded **:**
a) Date of sowing & maturity
b) Seed yield
c) Reactions of farmers and extension workers'
Source of Fund : GOB

Experiment 11 : Adaptive Trials with sesame varieties Binatil-1, Binatil-2 and Binatil-3 in collaboration with DAE

Objectives **:**
a) To demonstrate performance of Binatil-1, Binatil-2 and Binatil-3 in different AEZ of Bangladesh
b) To identify the suitable areas for large scale demonstration
c) To encourage farmers for cultivation of Binatil-1, Binatil-2 and Binatil-3

Growing season **:** Kharif
Treatment **:** a) Binatil-1, b) Binatil-2, c) Binatil-3 and Baritil-4 as check
Experimental design **:** Non-statistical
Number of replications **:** Total number of Adaptive Trials with Binatil-1, Binatil-2 and Binatil-3
Location **:** Please see Table 3, p. 9
Area **:** Unit area for an Adaptive trial = 1 bigha
Data to be recorded **:**
a) Date of sowing & maturity
b) Seed yield
c) Reactions of farmers and extension workers'
Source of Fund : GOB

Experiment 12	**:**	**Adaptive Trials with newly released salt tolerant groundnut varieties Binachinabadam-7, 8 & 9 in collaboration with DAE**
Objectives	**:**	a) To demonstrate performance of Binachinabadam-7, 8 & 9 in different AEZ of Bangladesh b) To identify the suitable areas for large scale demonstration c) To encourage farmers for cultivation of Binachinabadam-7, 8 & 9
Growing season	**:**	Kharif-1
Treatment	**:**	(a) Binachinabadam-7, 8 & 9 (b) Best local check variety
Experimental design	**:**	Non-statistical
Number of replications	**:**	Total number of adaptive trial with Binachinabadam-7, 8 & 9
Location	**:**	Please see Table 3, p. 9
Area	**:**	Unit area for an adaptive trial = 1 bigha
Data to be recorded	**:**	a) Date of sowing, maturity & transplanting b) Seed yield c) Reactions of farmers and extension workers'
Source of Fund	:	GOB

Experiment 13	**:**	**Adaptive Trials with soybean varieties Binasoybean-1, Binasoybean-2 Binasoybean-3 and Binasoybean-4 in collaboration with DAE**
Objectives	**:**	a) To demonstrate performance of Binasoybean-1, Binasoybean-2, Binasoybean-3 and Binasoybean-4 in different AEZ of Bangladesh b) To identify the suitable areas for large scale demonstration c) To encourage farmers for cultivation of Binasoybean-1, Binasoybean-2, Binasoybean-3 and Binasoybean-4
Growing season	**:**	Kharif-1
Treatment	**:**	a) Binasoybean-1, b) Binasoybean-2, c) Binasoybean-3, d) Binasoybean-4 & e) Best local check variety
Experimental design	**:**	Non-statistical
Number of replications	**:**	Total number of Adaptive Trials with Binasoybean-1, 2, 3 & 4
Location	**:**	Please see Table 3, p. 9
Area	**:**	Unit area for an adaptive trial = 1 bigha
Data to be recorded	**:**	a) Date of sowing & maturity b) Seed yield c) Reactions of farmers and extension workers'
Source of Fund	:	GOB

Experiment 14	**:**	**Adaptive Trials with newly released tomato variety Binatomato-10 in collaboration with DAE**
Objectives	**:**	a) To demonstrate performance of Binatomato-10 b) To identify the suitable areas for large scale demonstration c) To encourage farmers for cultivation of Binatomato-10
Growing season	**:**	Rabi season
Treatment	**:**	a) Binatomato-10 & b) Best local check variety
Experimental design	**:**	Non-statistical
Number of replications	**:**	Total number of adaptive trials with Binatomato-10
Location	**:**	Please see Table 3, p. 9
Area	**:**	Unit area for an adaptive trial = 250 m^2
Data to be recorded	**:**	a) Date of sowing, maturity and transplanting b) Fruit yield c) Reactions of farmers and extension workers'
Source of Fund	:	GOB

Table 3. Summary of location and Number of Adaptive Trials for different Oilseed crops and Vegetables under Project II

Variety / Location	Binasharisha-9 & 10	Binatil-1, 2 & 3	Binasybean-1, 2, 3 & 4	Binachinabadam-7, 8 & 9 (kharif-1)	Binatomato-10	Total
Mymensingh	4	4			5	13
Tangail	4					4
Magura	4	4			5	13
Rangpur					5	5
Manikgonj	4					4
Jhenaidah	4	4				8
Satkhira		4		5		9
Khulna				5		5
Khagrachori		4				4
Comilla					5	5
Noakhali			7	5		12
Chandpur			7			7
Lakhmipur			6	5		11
Total =	**20**	**20**	**20**	**20**	**20**	**100**

Experiment 15 : **Block Farming with mustard variety Binasarisha-4 in collaboration with DAE**

Objectives : a) To demonstrate the performance of Binasarisha-4 in different AEZ of Bangladesh
b) To encourage farmers for cultivation of Binasarisha-4

Growing season : Rabi season

Treatment : a) Binasarisha-4, b) Best local check variety

Experimental design : Non-statistical

Number of replications : Total Number of Block Farming = 50

Location : Please see Table 4, p. 11

Area : Total area for a Block Farming = 1 acre

Data to be recorded : a) Date of sowing & maturity
b) Seed yield
c) Reactions of farmers and extension workers'

Source of Fund : GOB

* Note- Additional amount of seeds of Binasarisha-4 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 16 : **Block Farming with sesame variety Binatil-2 in collaboration with DAE**

Objectives : a) To demonstrate performance of Binatil-2 in different AEZ of Bangladesh
b) To encourage the farmers for cultivation of Binatil-2

Growing season : Kharif-1

Treatment : a) Binatil-2, b) Best local check variety

Experimental design : Non-statistical

Number of replications : Total number of Block Farming = 50

Location : Please see Table 4, p. 11

Area : Total area for a Block Farming = 1 acre

Data to be recorded : a) Date of sowing & maturity
b) Seed yield
c) Reactions of farmers and extension workers'

Source of Fund : GOB

* Note- Additional amount of seeds of Binatil-2 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 17	**:**	**Block Farming with groundnut variety Binachinabadam-4 in Kharif-1 and kharif-2 in collaboration with DAE**
Objectives	**:**	a) To demonstrate performance of Binachinabadam-4 in different AEZ of Bangladesh b) To encourage farmers for cultivation of Binachinabadam-4
Growing season	**:**	Rabi and Kharif
Treatment	**:**	a) Binachinabadam-4 & b) Dhaka-1
Experimental design	**:**	Non-statistical
Number of replications	**:**	Total number of Block Farming = 50
Location	**:**	Please see Table 4, p. 11
Area	**:**	Total area for a Block Farming = 1 acre
Data to be recorded	**:**	a) Date of sowing & maturity b) Seed yield c) Reactions of farmers and extension workers'
Source of Fund	:	GOB

* Note- Additional amount of seeds of Binachinabadam-4 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 18	**:**	**Block Farming with salt tolerant groundnut variety Binachinabadam-6 in Kharif-1 in collaboration with DAE**
Objectives	**:**	c) To demonstrate performance of Binachinabadam-6 in different AEZ of Bangladesh d) To encourage farmers for cultivation of Binachinabadam-6
Growing season	**:**	Rabi and Kharif
Treatment	**:**	a) Binachinabadam-6 & b) Dhaka-1
Experimental design	**:**	Non-statistical
Number of replications	**:**	Total number of Block Farming = 50
Location	**:**	Please see Table 4, p. 11
Area	**:**	Total area for a Block Farming = 1 acre
Data to be recorded	**:**	a) Date of sowing & maturity b) Seed yield c) Reactions of farmers and extension workers'
Source of Fund	:	GOB

*** Note-** Additional amount of seeds of Binachinabadam-6 will be distributed among the farmers based on availability in collaboration with the DAE.

Table 4. Summary of location and Number of Block Farming for different oilseeds under Project-II

Variety / Location	Binasharisha-4	Binatil-2	Binachinabadam-4	Binachinabadam-6	Total
Netrokona	5				5
Tangail	5				5
Kishoregonj			5		5
Gazipur			5		5
Sherpur	5	5			10
Lalmonirhat			5		5
Pabna		5			5
Serajgonj	5				5
Natore		5	5		10
Dinajpur		5			5
Thakurgaon			5		5
Panchhogar			5		5
Kushtia		5			5
Meherpur		5			5
Chuadanga	5	5			10
Faridpur	5	5			10
Madaripur	5				5
Gopalganj			10		10
Manikgonj	5				5
Jhenaidah	5	5	10		20
Jessore	5	5			10
Cox's Bazar				10	10
Satkhira				15	15
Noakhali				15	15
Lakhmipur				10	10
Total =	**50**	**50**	**50**	**50**	**200**

Project III : Adaptive Trials/Block Farming with pulses crop and jute varieties developed by BINA

Objectives **:**
a) To familiarize BINA developed pulse varieties to the potential growers
b) To demonstrate specific advantages of the BINA pulse varieties to the farmers
c) To motivate farmers about the benefit of full swing use of recommendation for cultivation of BINA pulse variety through training program
d) To collect feedback information about the demonstrated variety for further refinement

Personnel assigned:

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A. H. M. Quamruzzaman,	ASO	Md. Mojibar Rahman	SA-I
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		Md. Akter Hossain	SA-2

Experimental details:

Experiment 19 : Adaptive Trials with newly released mustard variety Binamasur-8 & 9 in collaboration with DAE

Objectives **:** To demonstrate performance of Binamasur-8 & 9 in different AEZ of Bangladesh
To identify the suitable areas for large scale cultivation
To encourage farmers for cultivation of Binamasur-8 & 9

Growing season **:** Rabi season

Treatment	:	a) Binamasur-8 & 9, b) Best local check variety
Experimental design	:	Non-statistical
Number of replications	:	Total Number of Adaptive Trial = 20
Location	:	Rajbari, Faridpur, Magura, Jessore and Jhenaidah
Area	:	Unit area for an adaptive trial = 1 acre
Data to be recorded	:	a) Date of sowing & maturity b) Seed yield c) Reactions of farmers and extension workers'
Source of Fund	:	GOB

Experiment 20	:	**Block farming of lentil variety Binamasur-5 in major growing areas of Bangladesh**
Objectives	:	a) To demonstrate performance of Binamasur-5 in different AEZ of Bangladesh b) To encourage farmers for cultivation of these newly developed varieties
Growing season	:	Rabi season
Treatment	:	a) Binamasur-5, b) Locally best suited existing variety of demonstrated crop as check
Experimental design	:	Non-statistical
Number of replications	:	Total Number of block farming = 50
Location	:	Described in Table No**.** 5, p. 14
Area	:	Area for each Block farming = 1 acre
Data to be recorded	:	a) Date of sowing b) Date of maturity c) Date of harvesting d) Grain yield e) Comments of farmers and extension personnel about the performance of demo varieties
Source of fund	:	GOB

*** Note-** Additional amount of seeds of Binamasur-5 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 21	:	**Block farming of chickpea variety Binasola-4 and Binasola-6 in major the growing areas of Bangladesh**
Objectives	:	a) To demonstrate the performance of Binasola-4 & 6 to the farmers b) To encourage the farmers in adopting this newly developed variety
Growing season	:	Rabi season
Treatment	:	a) Binasola-4, b) Binasola-6 & c) Locally best suited existing variety of demonstrated crop as check
Experimental design	:	Non-statistical
Number of replications	:	Total Number of block farming with Binasola-4 & 6 = 20
Location	:	Described in Table No**.** 5, p. 14
Area	:	Area for each Block farming = 1 bigha
Data to be recorded	:	a) Date of sowing b) Date of maturity c) Date of harvesting d) Grain yield e) Comments of farmers and extension personnel about the performance of demo varieties.
Source of fund	:	GOB

Experiment 22	:	**Block Farming of Binamoog-7 in southern belt of Bangladesh**
Objectives	:	a) To demonstrate performance of Binamoog-5 in different AEZ of Bangladesh b) To encourage farmers in adopting these varieties at large scale
Growing season	:	Kharif-1
Treatment	:	a) Binamoog-7 b) Locally most popular variety of demonstrated crop as check

Experimental design : Non-statistical
Number of replications : Total Number of Block Farming = 50
Location : Described in Table No. 5, p. 14
Area : Area for each Block farming = 1 acre
Data to be recorded : a) Date of sowing b) Insect and disease reactions
c) Comments of farmers and extension personnel about the performance of demo variety.
Source of fund : GOB

***Note-** Additional amount of seeds of Binamoog-7 will be distributed among the farmers based on availability in collaboration with the DAE.

Experiment 23 : Block Demonstration of Binamoog-8 in the major growing areas of Bangladesh

Objectives : a) To demonstrate performance of Binamoog-8 in different AEZ of Bangladesh
b) To encourage farmers in adopting these varieties at large scale
Growing season : Kharif-1
Treatment : a) Binamoog-8
b) Locally most popular variety of demonstrated crop as check
Experimental design : Non-statistical
Number of replications : Total Number of Block farming = 50
Location : Described in Table No. 5, p. 14
Area : Area for each Block farming = 1 acre
Data to be recorded : a) Date of sowing b) Insect and disease reactions
c) Comments of farmers and extension personnel about the performance of demo variety.
Source of fund : GOB

* Note- Additional amount of seeds of Binamoog-8 will be distributed among the farmers based on availability in collaboration with the DAE.

Table 5. Summary of location and Number of Block Farming for different pulse crops under Project-III

Variety / Location	Binamasur-5	Binamoog-7	Binamoog-8	Binasola-4	Binasola-6	Total
Rajshahi			5	10	10	25
Chapainobabganj				10	10	20
Pabna	5		5			10
Rajbari	5					5
Natore	5	5	5			15
Bogra	5	5	5			15
Dinajpur		5	5			10
Thakurgaon		5	5			10
Kushtia	5					5
Chuadanga	5					5
Narail	5					5
Faridpur	5					5
Madaripur	5					5
Jessore	5			10	10	25
Magura	5	5	5	10	10	35
Jhenaidah	5					5
Barisal		5	5			10
Jhalakathi		5	5			10
Bhola		5	5			10
Borguna		5	5			10
Potuakhali		5	5			10
Total =	**60**	**50**	**60**	**40**	**40**	**250**

Project IV : Impact assessment of BINA developed some popular varieties/ technologies

Objectives **:**
a) To ascertain the adoption level/attitude of the farmers towards the technologies under varied socio-economic conditions
b) To determine the constraints affecting adoption of varieties/technologies
c) To provide feedback information of varieties/technologies

Personnel assigned:

Dr. A F M Feroj Hasan	SSO & PI	Md. Abdul Haque	SA-I
Dr M Raisul Haider	CSO (RC)	Md. Moshiur Rahman	SA-I
Shamima Begum	SSO	Md. Mojibar Rahman	SA-I
A. H. M. Quamruzzaman,	ASO	Md. Burhan Uddin	SA-I
Md Abu Baker Siddique	ASO	Md. Akter Hossain	SA-2

Experimental details:

Experiment 24 : Factors affecting adoption of Binadhan-7 in some selected areas

Objectives **:**
a) To ascertain the adoption of Binadhan-7 in some selected areas
b) To analyze the causes of adoption or rejection of Binadhan-7 by the farmers
c) To suggest policy guidelines or recommendations

Sampling design **:** Simple Random Sampling Design
Location **:** Six old sub-stations and Headquarters of BINA
Survey time **:** January, 2016
Sample size **:** 100
Data collection **:** Data will be collected from the farmers using interview schedule
Source of fund **:** GOB

Experiment 25 : Factors affecting adoption of Binadhan-10 in some selected areas

Objectives **:** To ascertain the adoption of Binadhan-10 in some selected areas
To analyze the causes of adoption or rejection of Binadhan-10 by the farmers
To suggest policy guidelines or recommendations

Sampling design **:** Simple Random Sampling Design
Location **:** Satkhira, Bagerhat and Cox's Bazar
Survey time **:** May, 2016
Sample size **:** 100
Data collection **:** Data will be collected from the farmers using interview schedule
Source of fund **:** GOB

Experiment 26 : Factors affecting adoption of Binasarisha-4 in some selected areas

Objectives **:** To ascertain the adoption of Binasarisha-4in some selected areas
To analyze the causes of adoption or rejection of Binasarisha-4by the farmers
To suggest policy guidelines or recommendations

Sampling design **:** Simple Random Sampling Design
Location **:** Jessore, Faridpur, Kushtia, Jhenaidah, Narail and Chuadanga
Survey time **:** February, 2016
Sample size **:** 100
Data collection **:** Data will be collected from the farmers using interview schedule
Source of fund **:** GOB

Experiment 27	**:**	**Factors affecting adoption of Binachinabadam-4 in some selected areas**
Objectives	**:**	a) To ascertain the adoption of Binachinabadam-4 in some selected areas b) To analyze the causes of adoption or rejection of Binachinabadam-4 by the farmers c) To suggest policy guidelines or recommendations
Sampling design	**:**	Simple Random Sampling Design
Location	**:**	Jhenaidah, Kishoregonj, Natore and Lalmonirhat
Survey time	**:**	March, 2016
Sample size	**:**	100
Data collection	**:**	Data will be collected from the farmers using interview schedule
Source of fund	**:**	GOB

Experiment 28	**:**	**Factors affecting adoption of Binamoog-8 in some selected areas**
Objectives	**:**	To ascertain the adoption of Binamoog-8 in some selected areas To analyze the causes of adoption or rejection of Binamoog-8 by the farmers To suggest policy guidelines or recommendations
Sampling design	**:**	Simple Random Sampling Design
Location	**:**	Jhalakhati, Magura, Pabna and Natore
Survey time	**:**	April, 2016
Sample size	**:**	100
Data collection	**:**	Data will be collected from the farmers using interview schedule
Source of fund	**:**	GOB

Project V : Establishment of BINA-technology Villages in surrounding areas of BINA HQ and its sub-stations

Objectives **:**

a) To establish BINA-Technology pilot area in surrounding villages of BINA HQ and its sub-stations for extension of BINA developed technologies
b) To improve farmers socio-economic status by motivating adoption of BINA technologies
c) To include BINA technologies in the existing cropping pattern
d) To demonstrate field performance of BINA technologies to the visitors
e) To extend promising mutant varieties among the farmers through seed exchange programme

Personnel assigned:

Dr. A F M Feroj Hasan	SSO & PI	Md. Abdul Haque	SA-I
Shamima Begum	SSO	Md. Moshiur Rahman	SA-I
A. H. M. Quamruzzaman,	ASO	Md. Mojibar Rahman	SA-I
Md Abu Baker Siddique	ASO	Md. Burhan Uddin	SA-I
		Md. Akter Hossain	SA-2

Experiment 29. Adaptative Trials/Block Farming with BINA varieties/ technologies

A total of 560 block farming with different BINA developed crop varieties will be conducted at (13) thirteen locations (the villages around BINA Head Quarters and its thirteen sub-stations: Rangpur, Comilla, Magura, Ishurdi, Jamalpur, Satkhira, Nalitabari, Sunamgonj, Noakhali, Gopalgonj, Barisal, Chapainobabgonj and Khagrachhori). Details of variety-wise block demonstration are given below (Tables 6):

Table No 6. Variety-wise Block farming to be conducted during 2015-16

Location / Variety	Mym.	Mag.	Ish.	Sat.	Ran.	Com.	Sun.	Jam.	Bar.	Noa.	Gop.	Kha.	Chap.	Nal.	Total
Binadhan-7	50	10	10	5	10	5	0	0	5	5	5	5	5	5	120
Binadhan-8	0	0	0	15	0	0	0	0	0	10	0	0	0	0	25
Binadhan-10	0	0	0	15	0	0	0	0	0	10	0	0	0	2	25
Binadhan-11	5	5	5	5	5	5	5	5	0	0	5	0	0	5	50
Binadhan-13	4	2	2	2	2	2	2	2	0	0	0	0	0	2	20
Binadhan-14	8	2	2	2	2	2	2	2	0	0	2	2	2	2	30
Binamoog-5	2	2	2	2	2	2	0	2	2	0	2	2	0	0	20
Binamoog-7	0	2	2	2	2	2	0	0	0	0	0	0	0	0	10
Binamoog-8	0	5	5	0	0	2	0	2	2	0	2	0	2	0	20
Binamasur-5	0	5	5	5	0	0	0	0	0	0	0	0	5	0	20
Binamasur-8	0	5	5	5	0	0	0	0	0	0	0	0	5	0	20
Binasarisha-4	10	10	10	5	10	5	0	0	5	0	5	5	5	5	75
Binasarisha-9	5	2	2	2	2	2	0	0	2	0	2	2	2	2	25
Binasarisha-10	5	2	2	2	2	2	0	0	2	0	2	2	2	2	25
Binatil-2	0	5	0	0	0	0	0	0	0	0	5	0	0	0	10
Binatil-3	2	2	2	2	0	2	0	0	0	0	0	0	0	0	10
Binasola-4	0	5	5	0	0	0	0	0	0	0	0	0	0	0	10
Binasola-6	0	5	5	0	0	0	0	0	0	0	0	0	0	0	10
Binachinabadam-4	5	0	5	5	0	0	0	0	0	0	0	0	0	0	15
Binachinabadam-6	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Binasoyabean-2	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Total =	**96**	**69**	**69**	**74**	**37**	**31**	**9**	**13**	**18**	**45**	**30**	**18**	**28**	**25**	**560**

***Myn=Mymensingh, Mag=Magura, Ish=Ishurdi, Sat=Satkhira, Ran.=Rangpur, Com.=Comilla, Sun.=Sunamgonj, Jam.=Jamalpur, Bar.=Barishal, Noa.=Noakhali, Gop.= Gopalgonj, Kha.=Khagrachhori, Chap.=Chapainobabgonj, Nal.=Nalitabari

***Note-** Additional amount of seeds of different varieties will be distributed among the farmers based on availability in collaboration with the sub-station personnel and the DAE.

Project VI : Publications, photography, multi-media and laboratory enrichment

Objectives **:**
a) To publish BINA's Journal, Annual Report, booklets, leaflets etc
b) To publicize BINA generated technologies through multi media, print media and electronic media
c) To develop photographic materials related to transferable technology

Personnel assigned:

Dr. A F M Feroj Hasan	SSO & PI	Md. Abdul Haque	SA-I
Shamima Begum	SSO	Md. Moshiur Rahman	SA-I
A. H. M. Quamruzzaman,	ASO	Md. Mojibar Rahman	SA-I
Md Abu Baker Siddique	ASO	Md. Burhan Uddin	SA-I
		Md. Akter Hossain	SA-2

Status : This Institute regularly publishes Bangladesh Journal of Nuclear Agriculture, BINA's annual report, booklets and leaflets etc. This is an on-going project started from 1996.

Experimental details:

i) Publication of BINA annual reports
ii) Publication of BJNA
iii) Publication of Booklets in Bangla
iv) Publication of Booklets in English
v) Publication of 15 leaflets on BINA released varieties/technologies
vi) Publicity of BINA technologies through Radio, TV and other multi-media
vii) Conduct visitors coming at BINA to see the activities of the institutes.

ANNUAL RESEARCH BUDGET
FOR
Adoptive Research and Extension Division (2015-2016)

Projects			Source of Fund	Project Total (Taka)
Project-I	**:**	Adaptive Trials / Block Farming with rice varieties developed by BINA	GOB	20,00,000
Project-II	**:**	Adaptive Trials / Block Farming with oil seeds and vegetable varieties developed by BINA	GOB	10,00,000
Project-III	**:**	Adaptive Trials / Block Farming with pulses crop and jute varieties developed by BINA	GOB	10,00,000
Project-IV	**:**	Impact assessment of BINA developed some popular varieties/technologies	GOB	5,00,000
Project-V	**:**	Establishment of BINA-technology Villages in surroundings areas of BINA HQ and its sub-stations	GOB	5,00,000
Project-VI	**:**	Publications, photography, multi-media and mass media campaign	GOB	Central
			Total =	**50,00,000**

Head of Adaptive Research & Extension Division | **CSO (RC)** | **Director (Research**