



Directory of Annual Agricultural Research Programme of NARS Institutes 2019-20



Bangladesh Agricultural Research Council
Farmgate, Dhaka-1215, Bangladesh
www.barc.gov.bd

National Agricultural Research System (NARS)

The National Agricultural Research System (NARS) is composed of BARC and 13 Agricultural Research Institutes (ARIs).

Bangladesh Agricultural Research Council (BARC)

Being the Apex body of NARS, BARC has the responsibility to strengthen national agricultural research capability through research planning, coordination, integration and resource allocation. Establish national research priorities, monitor and review the research program of the institutes, contribute to govt. policy formulation, coordinate with donors and share resources with NARS institutes to conduct research in priority areas are some of the mandate of BARC.

Bangladesh Agricultural Research Institute (BARI)

Conduct research to ensure increased and stable Production of all crops (except rice, jute, sugarcane and tea) through scientific management of land, water, fertilizers, insect and diseases; develop varieties of crops with resistances to biotic and abiotic stresses; improve farming systems to optimize production; develop tools and machinery to improve labor productivity; train scientists, extension functionaries, farmers, NGO workers, etc.; collaborate with private sector; publish newsletters, bulletins, and journals; test packages of new technologies.

Bangladesh Rice Research Institute (BRRI)

Conduct research on all aspects of rice to develop high yielding varieties for different ecosystems, develop component technologies for improving productivity of rice-based cropping systems, and transfer rice production technologies through training, workshop, seminar, and publication. Diffusion of technology to farmers through extension agencies.

Bangladesh Jute Research Institute (BJRI)

Conduct Agricultural and Technological research on jute and allied fibers. Agricultural Research: develop short duration high yielding varieties of both white and tossa jute varieties with improved fibers; short duration varieties of kenaf and mesta; agronomic analyses of jute production, prices and markets. Technological Research: identify fiber properties to produce quality products; develop processes and equipment for manufacturing new-jute products and improving the quality of conventional jute products; provide technical services to manufacturers with emphasis on establishing new jute industries.

Bangladesh Institute of Nuclear Agriculture (BINA)

To adapt advanced research techniques for the development of a stable and productive agriculture by evolving new crop varieties, technologies to improve management of crops, land and water, as well crop quality, and pest management practices.

Bangladesh Sugarcrop Research Institute (BSRI)

Develop high yielding, high sugar content cane varieties with low fiber contents which are disease and insect resistant for refined sugar and "gur" production; develop early, medium and late maturing varieties to accommodate intensive cropping sequences of major agro-ecological zones; develop improved cultural practices including intercropping and relay cropping patterns; develop varieties and practices to exploit the potential of minor sugar crops.

Bangladesh Wheat and Maize Research Institute (BWMRI)

Development and implementation of wheat and maize improvement as well as conduct basic and applied research

on different issues. Production of breeders and quality seed of wheat and maize and distributed for setting demonstration and dissemination.

Soil Resources Development Institute (SRDI)

Provide soil management advisory services to farmers; assess potentials of land resources through soil survey; assist government and other agencies with planning for agriculture, a forestation, soil conservation, land reclamation, settlements, irrigation, drainage, and flood protection by providing basic soil data, and information and technical support.

Bangladesh Fisheries Research Institute (BFRI)

Conduct and coordinate research on freshwater capture and pond fisheries, brackish water fisheries, and marine fisheries; and assist with development of efficient and economic but sustainable methods for fish production, management, processing and marketing.

Bangladesh Livestock Research Institute (BLRI)

Conduct research to solve problems that restrain the growth and development of livestock production at the farm level, and improve the livestock component of farming systems.

Bangladesh Forest Research Institute (BFRI)

Develop management practices to increase productivities of national forests and village groves and to convert wastelands and marginal lands to forestry and agro forestry uses; develop technologies for rational utilization of forest products; generate technologies to conserve or restore environment balances through increased stocking densities of both rural and urban forests; transfer technology through extension services and other agencies to end users.

Bangladesh Tea Research Institute (BTRI)

Mandate to conduct research for increased yields and profits by developing improved production technologies and high yielding, high quality tea clones.

Bangladesh Sericulture Research and Training Institute (BSRTI)

Develop disease, drought and water logging resistant high yielding and nutritionally rich mulberry varieties for rearing of silkworms. Develop appropriate technology for quality silkworm egg and silk production through low cost innovative technologies.

Cotton Development Board (CDB)

Conduct research on different aspects of cotton production; develop hybrid and short duration high yielding cotton varieties with desirable fiber characteristics, generation of agronomic, soil and pest management practices.

BANGLADESH AGRICULTURAL RESEARCH INSTITUTE

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Sl. No.	Research Title	Major Objective (s)	Location (s)
HORTICULTURE RESEARCH CENTRE (OLERICULTURE DIVISION)			
1.	Collection, evaluation and characterization of eggplant germplasm	<ul style="list-style-type: none"> • To evaluate the performance of collected eggplant germplasm in relation to yield and yield contributing characters both in winter and summer season and • To select superior germplasm for yield and good quality. 	Gazipur Jamalpur Narshingdi and Ishwardi
2.	Preliminary yield trial of eggplant lines	<ul style="list-style-type: none"> • To evaluate yield performance of selected eggplant lines for winter and summer season and • To select suitable lines with good horticultural characteristics 	Gazipur
3.	Advanced yield trial of eggplant lines	<ul style="list-style-type: none"> • To select high yielding OP eggplant varieties tolerant to FSB, bacterial wilt and extreme temperature 	Gazipur
4.	Regional yield trial of eggplant lines	<ul style="list-style-type: none"> • To select high yielding OP eggplant varieties tolerant to bacterial wilt <p>Location: Gazipur, Jamalpur, Burirhat, Ishwardi, Jashore, Rahmatpur, Hathazari, Akbarpur and Patuakhali</p>	
5.	Preliminary yield trial of selected tomato lines (SET-1)	<ul style="list-style-type: none"> • To identify suitable pest and disease resistant tomato lines and • To select determinate, semi-determinate type tomato breeding lines. 	Gazipur
6.	Evaluation of selected resistant tomato lines against different insect pests and diseases	<ul style="list-style-type: none"> • To identify resistant tomato lines against different disease and insect and • To evaluate performance of lines for yield and yield contributing characters 	Gazipur Bogura and Thakurgaon
7.	Evaluation of breeding lines of tomato	<ul style="list-style-type: none"> • To evaluate performance of breeding lines of tomato for important horticultural characteristics and • To select suitable genotypes of tomato with good horticultural characters. 	Gazipur
8.	Performance of selected resistant tomato lines against different insect and diseases	<ul style="list-style-type: none"> • To identify resistant tomato lines against different disease and insect and • To evaluate performance of lines for yield and yield contributing characters 	Gazipur and Thakurgaon
9.	Regional yield trial of multiple (Bacterial wilt and TYLCV) disease tolerant tomato lines	<ul style="list-style-type: none"> • To select suitable lines for release disease (BW, TYLCV) tolerant tomato variety 	Gazipur Jamalpur Burirhat Jashore Ishwardi and Cumilla

Sl. No.	Research Title	Major Objective (s)	Location (s)
10.	Collection and evaluation of sweet pepper germplasm	<ul style="list-style-type: none"> To evaluate the performance of sweet pepper germplasm in respect of yield and quality 	Gazipur
11.	Performance of capsicum production on floating bed	<ul style="list-style-type: none"> To evaluate the yielding abilities of capsicum on floating bed. 	Gazipur and Rahmatpur
12.	Advanced yield trial of sweet pepper lines	<ul style="list-style-type: none"> To extract superior inbred genotypes from heterozygous population. 	
13.	Regional yield trial of selected broccoli lines	<ul style="list-style-type: none"> To find out suitable OP broccoli lines with seed production potentiality <p>Location: Gazipur, Jamalpur, Burirhat, Ishwardi and Cumilla.</p>	
14.	Performance of selected summer radish lines	<ul style="list-style-type: none"> To select high yielding heat tolerant OP radish lines 	Gazipur
15.	Regional yield trial of advanced watermelon lines	<ul style="list-style-type: none"> To find out suitable genotype to release as a F₁ variety 	Patuakhali Vhola Gazipur Rangpur Cumilla and Ishwardi
16.	Evaluation of bottle gourd germplasm	<ul style="list-style-type: none"> To select superior germplasm for yield and quality 	Gazipur and Ishwardi
17.	Advanced yield trial of selected bottle gourd lines	<ul style="list-style-type: none"> To investigate the yield potentiality of selected advanced bottle gourd lines 	Gazipur
18.	Regional yield trial of bottle gourd lines	<ul style="list-style-type: none"> To see the yield potentiality, insect and disease tolerance of selected bottle gourd lines in different locations of Bangladesh <p>Location: Gazipur, Jamalpur Burirhat Ishwardi Jasshore Rahmatpur Hathazari and Akbarpur</p>	
19.	Collection and evaluation of bitter gourd germplasm in Cumilla region	<ul style="list-style-type: none"> To find out superior bitter gourd lines for yield and quality 	Cumilla
20.	Preliminary yield trial of bitter gourd lines in off-season	<ul style="list-style-type: none"> To select suitable genotypes of Biter gourd for higher yield and better quality 	Gazipur
21.	Regional yield trial of off-season bitter gourd lines	<ul style="list-style-type: none"> To select suitable lines for high yield and better quality 	Gazipur Jamalpur Burirhat Ishward Jashore Rahamatpur and Cumilla
22.	Preliminary yield trial of summer pumpkin	<ul style="list-style-type: none"> To observe the yield performance of selected pumpkin lines 	Lebukhali, Dumki and Patuakhali.
23.	Observational yield trial of pumpkin genotypes	<ul style="list-style-type: none"> To evaluate performance of selected lines for yield and quality 	Gazipur
24.	Collection and evaluation of ridge gourd germplasm	<ul style="list-style-type: none"> To find out superior ridge gourd lines to release as variety 	Cumilla

Sl. No.	Research Title	Major Objective (s)	Location (s)
25.	Collection and evaluation of cucumber germplasm	<ul style="list-style-type: none"> To develop gynocious, parthenocarpic and OP varieties 	Gazipur Cumilla Narsingdi and Pahartali
26.	Regional yield trial of cucumber lines	<ul style="list-style-type: none"> To select suitable lines for developing op variety 	Gazipur, Rahmatpur Narsingdi Burirhut and Jamalpur
27.	Collection and evaluation of snake gourd germplasm	<ul style="list-style-type: none"> To evaluate the performance of snake gourd germplasm in respect of yield and quality 	Gazipur
28.	Advanced yield trial of snake gourd lines	<ul style="list-style-type: none"> To find out the suitable snake gourd lines in respect of yield and quality 	Gazipur
29.	Preliminary yield trial of ash gourd lines	<ul style="list-style-type: none"> To find out suitable ash gourd lines in respect of yield and quality 	Gazipur
30.	Regional yield trial of ash gourd lines	<ul style="list-style-type: none"> To select suitable lines for release as variety Location: Gazipur, Jamalpur, Jessore Norshendi Burirhat and Ishwardi	
31.	Collection and evaluation of teasle gourd germplasm	<ul style="list-style-type: none"> To find out the suitable teasle gourdgermplasm for yield and quality 	Burirhat and Jamalpur
32.	Regional yield trial of teasle gourd lines	<ul style="list-style-type: none"> To investigate the yield potentiality of advanced teasle gourd lines at different location of Bangladesh 	Gazipur Ishwardi Jamalpur Comilla Rahmatpur and Hathazari
33.	Advanced yield trial of teasle gourd	<ul style="list-style-type: none"> To study the genetic diversity and identify the quality teasle gourd genotypes and To find the suitable lines for variety for export and the processing quality 	Gazipur
34.	Advance yield trial of squash lines	<ul style="list-style-type: none"> To observe the suitability of the selected squash lines at for yield and quality and To select suitable lines for developing OP variety 	Gazipur
35.	Collection and evaluation of exotic watermelon germplasm	<ul style="list-style-type: none"> Collection of evaluation watermelon germplasm and Evaluation of collected germplam for yield and quality 	Patuakhali and Narshidi
36.	Regional yield trial of watermelon lines	<ul style="list-style-type: none"> To study the performance of water melon lines at diverse location and To study the pest and disease reactions at diverse location 	Gazipur Patuakhali, Jamalpur and Norshindi

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37.	Advanced yield trial of netted melon germplasm	<ul style="list-style-type: none"> To study the performance of collected germplasm and To select promising germplasm for yield, quality and pest tolerance 	Gazipur
38.	Regional yield trial of muskmelon lines	<ul style="list-style-type: none"> To characterize collected germplasm and To select promising lines for higher yield, better quality and pest resistance 	Gazipur
39.	Collection and evaluation of 'LALMP' germplasm	<ul style="list-style-type: none"> To collect and characterize collected germplasm To select suitable lines of <i>lalmi</i> for yield and quality and To conserve genetic resources of cucurbitaceous vegetables of <i>char</i> land areas 	Ishwardi and Raikhali
40.	Preliminary yield trial of selected yard long bean lines	<ul style="list-style-type: none"> To find out superior yard long bean lines in respect of yield and quality and To find out export quality pod producing lines. 	Gazipur
41.	Collection and evaluation of country bean germplasm	<ul style="list-style-type: none"> To characterize collected germplasm and To evaluate the performance and select lines of hyacinth bean in respect of yield and quality 	Ishwardi and Pabna
42.	Advanced yield trial of selected country bean lines	<ul style="list-style-type: none"> To evaluate the performance of selected hyacinth bean lines in respect of yield, quality and pest reactions. 	Gazipur and Jamalpur
43.	Preliminary yield trial of country bean germplasm	<ul style="list-style-type: none"> To evaluate the performance of selected country bean lines in respect of yield, quality and pest reactions. 	Gazipur and Patuakhali
44.	Evaluation of selected bush bean lines	<ul style="list-style-type: none"> To select suitable lines for yield and quality 	Raikhali and Rangamati
45.	Evaluation of garden pea germplasm	<ul style="list-style-type: none"> To select suitable lines for yield and quality 	Gazipur
46.	Collection and evaluation of okra germplasm	<ul style="list-style-type: none"> To find out superior okra lines to release as variety with tolerance to YVMV and high yield 	Cumilla
47.	Preliminary yield trial of okra germplasm	<ul style="list-style-type: none"> To select new okra lines with tolerant to YVMV and high yield 	Gazipur
48.	Regional yield trial of Okra lines	<ul style="list-style-type: none"> To observe performance of advanced okra lines for important horticultural characteristics and To select suitable lines for high yield, good quality and lower virus incidence 	Gazipur Jamalpur Rahamatpur Burirhat and Ishwardi

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49.	Advanced yield trial of carrot lines	<ul style="list-style-type: none"> To develop the high yielding carrot OP variety 	Gazipur
50.	Collection and evaluation of stem amaranth germplasm	<ul style="list-style-type: none"> To evaluate the performance of stem amaranth germplasm in respect of yield and quality 	Ishwardi and Jamalpur
51.	Advanced yield trial of selected stem amaranth lines	<ul style="list-style-type: none"> To characterize selected germplasm and To find out promising germplasm for better yield and quality. 	Gazipur
52.	Evaluation of selected drumstick lines (on and off-season)	<ul style="list-style-type: none"> Assessment of yield potentials of drumstick lines and Development of new on and off-season drumstick varieties 	Gazipur
53.	Collection and evaluation of drumstick germplasm	<ul style="list-style-type: none"> To characterize drumstick germplasm and To select suitable lines for yield and quality 	Rahmatpur and Narsangdi
54.	Collection, evaluation, conservation of underutilized indigenous vegetables	<ul style="list-style-type: none"> Evaluating the yield potentiality of the collected underutilized vegetables and Conserving the collected germplasm. 	Gazipur
55.	Heterosis study in eggplant	<ul style="list-style-type: none"> To study heterosis in eggplant and To select hybrid variety tolerance to high temperature and bacterial wilt 	Gazipur
56.	Evaluation of eggplant hybrids	<ul style="list-style-type: none"> To develop high yielding eggplant hybrid varieties and To select eggplant hybrids tolerance to high temperance, FSB and bacterial wilt. 	Gazipur
57.	Regional yield trial of eggplant hybrids	<ul style="list-style-type: none"> To select high yielding and good quality eggplant hybrids and To select hybrids tolerance to bacterial wilt for winter and summer <p>Location: Gazipur, Jamalpur, Burirhat, Ishwardi, Jashore Rahmatpur, Hathazari and Akbarpur</p>	
58.	Hybridization in virus resistant tomato lines	<ul style="list-style-type: none"> To produce virus resistant tomato hybrids for summer in Bangladesh 	Gazipur
59.	Performance of tomato hybrids	<ul style="list-style-type: none"> Evaluating the performance of newly developed winter tomato hybrid and Selecting tomato hybrids for yield and quality 	Gazipur
60.	Preliminary yield trial of tomato hybrids	<ul style="list-style-type: none"> Evaluating the performance of newly developed tomato hybrid and Selecting as high yielding hybrid tomatoes for yield and quality. 	Gazipur
61.	Performance of BARI developed summer hybrid tomato varieties at RARS	<ul style="list-style-type: none"> To evaluate the performance of released summer tomato varieties 	Jamalpur and Cumilla

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62.	Regional yield trial of F ₁ s tomato for summer	<ul style="list-style-type: none"> To observe adaptability of the promising F₁s of tomato at different agro-ecological regions for yield and quality during summer season and To select suitable summer F₁s for release as a variety 	Gazipur Jamalpur Akbarpur Thakurgaon and Ishwardi
63.	Studies on combining ability and heterosis in tomato (SET-I)	<ul style="list-style-type: none"> To study combining ability and heterosis of F₁ progeny and parents of tomato and To select better hybrids 	Gazipur
64.	Studies on combining ability and heterosis in tomato (SET II)	<ul style="list-style-type: none"> To study combining ability and heterosis of F₁ progeny and parents and To select better hybrids of tomato 	Gazipur
65.	Performance of sweet pepper hybrids	<ul style="list-style-type: none"> To assess the horticultural characters of sweet pepper hybrids in winter and To find the tolerant F₁ hybrids of sweet pepper against pest and diseases reaction under field condition 	Gazipur
66.	Combining ability and heterosis study in line × tester crosses of pumpkin	<ul style="list-style-type: none"> To estimate heterosis, GCA and SCA effects To find out heterotic partners of parent lines and testers and To select promising cross combinations 	Gazipur
67.	Effect of pruning intensity on yield and seed quality of tomato	<ul style="list-style-type: none"> To estimate heterosis, and GCA and SCA effects and To select promising cross combinations 	Gazipur
68.	Regional yield trial of bitter gourd hybrids	<ul style="list-style-type: none"> To observe adaptability of the selected hybrids of bitter gourd at different regions for yield and quality during summer and winter and To select suitable hybrids for high yield and better quality for release as variety 	Gazipur Jamalpur Hathzari Jessore Akbarpur Potuakhali and Ishwardi
69.	Heterosis study in bottle gourd	<ul style="list-style-type: none"> To develop year-round high yielding F₁ bottle gourd variety 	Gazipur
70.	Regional yield trial of sponge gourd hybrids	<ul style="list-style-type: none"> To observe the suitability of the selected sponge gourd hybrids at different regions for yield and quality and To select suitable hybrids for high yield and better quality 	Gazipur Moulvibazar Hathazari Ishwardi and Jamalpur
71.	Regional yield trial of pointed gourd hybrids	<ul style="list-style-type: none"> To evaluate the performance of pointed gourd hybrids at different regions and To select the best hybrid of pointed gourd <p>Location: Gazipur, Ishwardi, Jessore, Jamalpur, Burirhat Narsingdi, Rahamatpur, Cumilla and Hathazari</p>	

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72.	Performance study of ridge gourd hybrid lines	<ul style="list-style-type: none"> To evaluate the newly developed ridge gourd hybrids 	Gazipur
73.	Regional yield trial of cucumber hybrids	<ul style="list-style-type: none"> To observe the suitability of the selected cucumber hybrids at different regions for yield and quality and To select suitable hybrid for variety 	Gazipur Rahmatpur Narsingdi Burirhut and Jamalpur
74.	Inbred development of watermelon	<ul style="list-style-type: none"> To develop superior lines for OP variety development on wens as to develop inbred lines for future breeding program 	Patuakhali
75.	Effect of bagging on EFSB for quality eggplant cultivation	<ul style="list-style-type: none"> To find out the suitable bagging material to control EFSB and To get higher yield of quality eggplant during summer and winter season 	Gazipur
76.	Effect of grafting compatibility of different eggplant scion and rootstock	<ul style="list-style-type: none"> To observe the effect of grafting compatibility of different rootstock with different eggplant scion 	Gazipur
77.	Feasibility of intercropping leafy vegetables under eggplant cultivation	<ul style="list-style-type: none"> To find out the suitable crop combination for increasing total productivity, return and maximum land utilization 	Cumilla
78.	Year-round production and determination of physico chemical attributes in tomato	<ul style="list-style-type: none"> To select different cultivars of tomatoes for different season and To determine physicochemical properties at variable growing conditions 	Gazipur
79.	Year-round performance of BARI released capsicum varieties	<ul style="list-style-type: none"> To select the suitable variety for year-round production 	Gazipur
80.	Effect of planting time and cultivar on year-round stem amaranth production	<ul style="list-style-type: none"> Identifying suitable sowing time of Stem Amaranth and Developing new Stem Amaranth variety(es) for year-round production 	Narsingdi
81.	Performance of selected vegetables for roof top gardening	<ul style="list-style-type: none"> To study the performance of selected vegetable crops for rooftop gardening and Year-round supply of fresh vegetables and Effective utilization of space available at the roof top. 	Cumilla
82.	Screening of tomato hybrids at different salinity levels	<ul style="list-style-type: none"> To investigate the response of tomato genotypes to increasing level of salinity during the germination and seedling stages 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
83.	Effect of spacing and vine planting time on growth and yield of hybrid pointed gourd	<ul style="list-style-type: none"> • To find out the proper spacing for growth and yield of hybrid pointed gourd and • To find out the optimum vine planting time for proper growth and yield of hybrid of pointed gourd 	Ishwardi
84.	Effect of sowing time on growth and yield of BARI Dheros-2	<ul style="list-style-type: none"> • To study the performance of BARI Dheros-2 year for round production 	Jamalpur
85.	Effect of container and growing media for vegetable production on rooftop	<ul style="list-style-type: none"> • To find out the suitable container and growing media 	Rahmatpur
86.	Collection, characterization, evaluation and conservation of wild solanum spp. root stocks	<ul style="list-style-type: none"> • To characterize, evaluate and conserve collected species 	Gazipur
87.	Studies on identifying suitable rootstock for grafting with tomato	<ul style="list-style-type: none"> • To study the grafting success of tomato with Solanum Spp. and • To assess the effect of rootstocks on the growth and yield of tomato; and 	Gazipur
88.	Indoor production of leafy greens with LED light	<ul style="list-style-type: none"> • To find out Agro techniques for urban vegetable production indoors 	Gazipur
89.	Effect of nitrogen and potassium concentration on different growth stage of capsicum in hydroponic culture	<ul style="list-style-type: none"> • To find out optimum nitrogen and potassium dose for vegetative stage of capsicum and • To find out optimum nitrogen and potassium dose for reproductive stage of capsicum 	Patuakhali
90.	Fruitretaintion effect on yield and seed quality of tomato	<ul style="list-style-type: none"> • To determine the optimum number of fruits per plant for maximum yield and quality seed of tomato 	Gazipur
91.	Development of low-cost mechanism and structure of hydroponic for rooftop	<ul style="list-style-type: none"> • To find out optimum nitrogen and potassium dose for vegetative stage of capsicum and • To find out optimum nitrogen and potassium dose for reproductive stage of capsicum 	Patuakhali
92.	Evaluation of different oyster mushroom genotypes	<ul style="list-style-type: none"> • To evaluate performance of different mushroom genotypes from different sources and • To select suitable genotype with good yield and quality 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
93.	Physiological, nutritional and growth responses of netted melon in two hydroponic nutrient formulations	<ul style="list-style-type: none"> To investigate the physiological, nutritional and growth responses of netted melon grown under two hydroponic nutrient formulations 	Gazipur
94.	Collection of different soilless substrate and determination of their physical and chemical properties	<ul style="list-style-type: none"> To collect and determine the physical and chemical properties of available substrates in Bangladesh 	Gazipur
95.	Evaluation of growth, yield and antioxidant properties of indigenous and exotic vegetables in deep water culture	<ul style="list-style-type: none"> To evaluate the growth and yield performance of the selected in hydroponics and To investigate antioxidant properties of selected vegetables 	Gazipur
96.	Demonstration of simplified hydroponics at regional stations of BARI	<ul style="list-style-type: none"> To demonstrate and extend the simplified hydroponics techniques to different regional stations of BARI 	Phahartoli, Cumilla, Hathazari Ishwardi and Rangpur
97.	Performance of elevated bench systems of growing vegetables crops in coconut coir-based substrates	<ul style="list-style-type: none"> To develop suitable and economic soilless culture system for growing vegetables in the urban areas of Bangladesh 	Gazipur and Rahmatpur
98.	Performance of different cultivars of tomato, capsicum and strawberry in coconut coir substrate	<ul style="list-style-type: none"> To evaluate performance of different popular varieties of tomato, capsicum and strawberry under coconut coir substrate 	Gazipur
99.	Calculation of benefit cost ratio of lettuce, cucumber, strawberry, tomato and capsicum grown in hydroponics	<ul style="list-style-type: none"> To find out the benefit cost ratio of lettuce, cucumber, strawberry, tomato, and capsicum for cultivation hydroponics 	Gazipur
100.	Evaluation of organic tomato lines	<ul style="list-style-type: none"> To find out suitable variety for low input organic practices 	Gazipur
101.	Effect of organic substrate for safe and quality production in micro-green vegetable	<ul style="list-style-type: none"> To find out suitable organic substrate and To ensure the quality microgreens to fork 	Gazipur
102.	Phytotoxicity study of different organic fertilizers	<ul style="list-style-type: none"> To assess the phytotoxicity of organic fertilizers 	Gazipur

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103.	Identification of nutrient dense local vegetable cultivars grown under organic condition	<ul style="list-style-type: none"> To trace the cultivars containing relatively high major nutrient and phytochemicals 	
104.	Intercropping of cruciferous vegetables with red amaranth at different organic fertilizers	<ul style="list-style-type: none"> To find the suitable dose of organic fertilizers for cabbage, cauliflower, kohlrabi intercropped with red amaranth To utilize land equivalent ratio (LER) for harvesting maximum vegetables 	Gazipur
105.	Evaluation of brinjal genotypes under organic condition	<ul style="list-style-type: none"> To find out suitable variety of Brinjal for low input organic practices 	Gazipur
106.	Effect of mulching and fertigation on yield and quality of tomato and brinjal	<ul style="list-style-type: none"> To find out suitable method for weed control and water management 	Gazipur
107.	Preliminary yield trial of selected underutilized indigenous vegetables under organic approach	<ul style="list-style-type: none"> Evaluating the yield potentiality of the selected underutilized vegetables and Releasing as underutilized vegetables varieties. 	Gazipur
108.	Estimation of yield and nutrient differences of bitter gourd through organic cultivation approach	<ul style="list-style-type: none"> To know the yield gap of bitter gourd in organic approach and conventional approach and To know the nutritional status of bitter gourd through organic approach 	Gazipur
109.	Application of pest exclusion net (pen) and mulching for growing safe vegetables	<ul style="list-style-type: none"> To study the potentiality of PEN for growing tomato, brinjal, capsicum, cucumber and cabbage under organic and conventional condition and To study the microclimate effect by mesh size and color on growth and yield of said vegetables 	Gazipur
110.	Diversity study in carrot	<ul style="list-style-type: none"> To study the variation in size, quality and seed production capability of carrot in order to develop suitable variety under organic condition in Bangladesh 	Gazipur
111.	Screening of eggplant lines (OP/F ₁) against salinity	<ul style="list-style-type: none"> To find out the suitable eggplant (OP/ F₁) varieties for cultivation in saline area 	Gazipur and Satkhira

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112.	Screening of bottle gourd lines against salinity	<ul style="list-style-type: none"> To find out the suitable bottle gourd varieties for cultivation in saline area 	Gazipur and Satkhira
113.	Screening of capsicum varieties against salinity	<ul style="list-style-type: none"> To find out the suitable capsicum varieties for cultivation in saline area 	Gazipur and Satkhira
114.	Screening of okra against salinity	<ul style="list-style-type: none"> To find out the suitable okra varieties for cultivation in saline area 	Gazipur and Satkhira
115.	Screening of radish against salinity	<ul style="list-style-type: none"> To find out the suitable radish varieties for cultivation in saline area 	Satkhira
116.	Screening of summer tomato hybrids at Satkhira region	<ul style="list-style-type: none"> To investigate the response of summer tomato hybrids against salinity during summer and winter season 	Satkhira
Plant Physiology Section			
117.	Effect of GA ₃ and growing condition on emergence and seedling growth of lettuce seed	<ul style="list-style-type: none"> To identify suitable concentration of GA₃ for better seed germination of lettuce seeds and To find out suitable growing condition for better germination 	Gazipur
118.	Performance of selected tomato varieties against drought stress in the field	<ul style="list-style-type: none"> To study the changes in various physiological and morphological parameters of tomato plant under stress condition and To find out the variety best performed under drought condition. 	Gazipur
119.	Performance of selected tomato varieties against drought stress under pot culture	<ul style="list-style-type: none"> To study the changes in various physiological and morphological parameters of tomato plant under stress condition and To find out the variety best performed under drought condition 	Gazipur
120.	Screening of eggplant varieties against salinity at germination and early seedling growth stages	<ul style="list-style-type: none"> To find the suitable eggplant varieties tolerant to salt stress at seed germination and early seedling growth stages 	Gazipur
121.	Screening of hybrid tomato genotypes against salinity at germination and early seedling growth stages	<ul style="list-style-type: none"> To identify the suitable hybrid tomato genotypes tolerant to salt stress at seed germination and early seedling stage 	Gazipur
122.	Effect of polyethylene glycol induced drought on tomato genotypes at	<ul style="list-style-type: none"> To identify tomato genotypes/variety for drought tolerance at seedling stage and To investigate the physiological changes 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	germination and early seedling growth stages	associated with drought tolerance	
123.	Evaluation of bottle gourd genotypes for drought tolerance through yield-based selection indices	<ul style="list-style-type: none"> To study the changes in various physiological and morphological parameters of bottle gourd plant under stress condition and To investigate the performances of selected genotypes under drought condition 	Gazipur
124.	Effect of plant growth regulators on the performance of summer country bean	<ul style="list-style-type: none"> To evaluate the influence of plant growth regulators (PGRs) on physio-morphological characters and fruit set of summer country bean and To find out the suitable PGRs on higher yield of summer country bean. 	Gazipur
POMOLOGY DIVISION			
125.	Evaluation of jackfruit germplasm	<ul style="list-style-type: none"> To select superior lines for late season with higher yield and quality 	Gazipur Pahartali Jamalpur and Akbarpur
126.	Collection and evaluation of year-round jackfruit germplasm	<ul style="list-style-type: none"> To find out the superior off-season and year-round variety and To identify suitable germplasm for higher yield and quality 	Gazipur Cumilla and Chapainawabganj
127.	Identification, collection and evaluation of family size superior jackfruit germplasm	<ul style="list-style-type: none"> To develop family size variety (s) of superior jackfruit 	Gazipur and Khagrachari
128.	<i>In situ</i> evaluation of off-season jackfruit germplasm	<ul style="list-style-type: none"> To study the performance of the off-season jackfruit lines and To identify suitable germplasm for higher yield and quality 	Rahmatpur
129.	Survey on identification and collection of year-round and off-season jackfruit germplasm	<ul style="list-style-type: none"> To identify year-round and off-season jackfruit germplasm 	Gazipur Khagrachari Narshindi and Mymensingh
130.	Collection and evaluation of off-season mango germplasm in different regions	<ul style="list-style-type: none"> To develop off-season mango variety To increase off season mango production To ensure good quality mango for our consumers 	Chapainawabganj Narsingdi Akbarpur Ishurdi and Gazipur
131.	Characterization and evaluation of chance seedlings of Mango obtained from elite late mango germplasm	<ul style="list-style-type: none"> To select the superior germplasm for commercial cultivation in the late season To find out varibilities from its mother tree iii) To develop new variety 	Chapainawabganj

Sl. No.	Research Title	Major Objective (s)	Location (s)
132.	Evaluation of exotic mango germplasm	<ul style="list-style-type: none"> To find out the superior germplasm of exotic mango for releasing as a variety and To conserve genetic resources of fruits 	Burirhat
133.	Collection and evaluation of coloured mango germplasm	<ul style="list-style-type: none"> To find out the superior coloured mangogermplasm for releasing as a variety and To conserve genetic resources of fruits 	Jamalpur
134.	Survey, collection and evaluation of mango germplasm having year round potentiality	<ul style="list-style-type: none"> To identify some suitable line for year-round production To increase off season production of mango and To develop a variety 	Jashore
135.	Improvement of local mango cultivars and development of integrated production technology	<ul style="list-style-type: none"> To improve the local mango cultivars (Harivanga, Surjopuri etc.) and To develop the integrated production technology of mango <p>Location: Gazipur, Jamalpur Chapai-nawabgonj Jashore Satkhira Rahmatpur Burirhat Raikhali and Patuakhali</p>	
136.	Inter-varietal hybridization of mango (SET-II)	<ul style="list-style-type: none"> To incorporate desirable characters and To develop good quality hybrid variety(ies) 	Chapainawabganj and Pahartali
137.	Hybridization in mango (set III and set IV)	<ul style="list-style-type: none"> To incorporate desirable characters and To develop hybrid variety 	Gazipur and Burirhat
138.	Development of mango hybrids and confirmation of hybrids using molecular markers (SSR/ISSR) (set III and set IV)	<ul style="list-style-type: none"> To incorporate desirable characters To develop hybrid variety and To detect the hybridity of the hybrids 	Gazipur and Burirhat
139.	Hybridization in Mango	<ul style="list-style-type: none"> To incorporate the skin color in BARI Aam-3 and To develop a hybrid mango variety 	Cumilla
140.	Hybridization in mango through open pollination by insect in casing	<ul style="list-style-type: none"> To develop hybrids with desirable traits 	Chapainawabganj
141.	Characterization and evaluation of late mango germplasm	<ul style="list-style-type: none"> To find out the suitable mango germplasm in quest of late variety 	Chapainawabganj
142.	Clonal selection of mango	<ul style="list-style-type: none"> To select the superior germplasm for commercial cultivation and To develop a new mango variety 	Burirhat and Binodpur
143.	Performance of unripe sweet mango (Kachamitha) germplasm	<ul style="list-style-type: none"> To find out the superior mango (kachamitha) germplasm for better yield and insect-pest resistance and 	Chapainawabganj and Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To develop a suitable unripe sweet mango (kachamitha) variety for commercial cultivation at hilly region 	
144.	Collection and evaluation of mango germplasm in the hilly area	<ul style="list-style-type: none"> To find out superior mango germplasm and To find out early germplasm of mango. 	Raikhali
145.	Evaluation of mango germplasm	<ul style="list-style-type: none"> To find out the superior mango germplasm to release as variety and To study on the diversity of mango genotypes 	Cumilla and Debgonj
146.	Collection and evaluation of superior mango germplasm	<ul style="list-style-type: none"> To develop good quality and high yielding variety and To extend the availability period 	Pahartali
147.	Evaluation of local and exotic mango germplasm	<ul style="list-style-type: none"> To evaluate the performance of local and exotic lines of mango at different locations for identification of suitable ones and releasing as variety and To conserve germplasm 	Jamalpur Khagrachari Binodpur and Burirhat
148.	<i>In situ</i> evaluation of selected coloured mango germplasm	<ul style="list-style-type: none"> To select the superior coloured mango germplasm(s) for releasing as variety 	Burirhat
149.	Effect of environment on growth and phonological response of mango cultivars	<ul style="list-style-type: none"> To study the phonological events influencing yield and adaptation process 	Narshingdi
150.	Collection and evaluation of local elite mango germplasm	<ul style="list-style-type: none"> To identify promising local mango lines with desirable characteristics and To develop high yielding variety 	Binodpur Jamalpur Pahartali Satkhira and Burirhat
151.	Morpho-molecular characterization of different indigenous mango genotypes available in Bangladesh	<ul style="list-style-type: none"> To know the morphological differences among the genotypes To know the molecular characteristics of the genotypes and To use the genotypes for further Mendalian and/or molecular breeding 	Jashore and Gazipur
152.	Collection and evaluation of banana (Sabri) germplasm	<ul style="list-style-type: none"> To select superior one(s) for commercial cultivation and To conserve germplasm 	Rahmatpur Jaintiapur and Gazipur
153.	Morphological characterization of banana cv. AmritSagar	<ul style="list-style-type: none"> To characterize the AmritSagar banana and To develop variety with high yield and quality 	Norsingdi
154.	Regional yield trial of banana lines (Set 1)	<ul style="list-style-type: none"> To identify/develop the suitable variety and To know the regional adaptability of banana 	Gazipur and Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
155.	Regional yield trial of banana lines (Set-2)	<ul style="list-style-type: none"> To verify regional adaptability of selected lines and To release a new banana variety for cultivation 	Gazipur and Jamalpur
156.	Regional yield trial of plantain germplasm (Set 1, 2 and 3)	<ul style="list-style-type: none"> To identify/select the suitable plantain variety and To observe adaptability 	Gazipur
157.	Collection and evaluation of plantain germplasm	<ul style="list-style-type: none"> To select the superior lines for commercial cultivation and To conserve the genotypes 	Gazipur and Burirhat
158.	Collection and evaluation of banana germplasm cv. Sabri	<ul style="list-style-type: none"> To select the superior lines for commercial cultivation and To release a new variety <p>Location : Gazipur, Jaintiapur, Burirhat Rahmatpur and Jamalpur</p>	
159.	Evaluation of seeded banana germplasm	<ul style="list-style-type: none"> To find out the best germplasm in respect of yield and quality 	Jamalpur
160.	Clonal selection of banana	<ul style="list-style-type: none"> To select the superior strain(s) for commercial cultivation and to conserve germplasm <p>Location: Burirhat, Jaintiapur, Jamalpur, Rahmatpur, Gazipur Ishurdi, Narshingdi, Khagrachari and Chapainawabganj</p>	
161.	Screening of salt tolerant banana varieties/lines	<ul style="list-style-type: none"> To identify salinity tolerant banana varieties/lines. 	Gazipur
162.	Collection, characterization and evaluation of Banana germplasm at Patuakhali region	<ul style="list-style-type: none"> To find out promising banana lines. 	Patuakhali
163.	Hybridization of guava to develop proper shape and less seeded/ seedless fruit	<ul style="list-style-type: none"> To develop seedless/ less seeded guava lines with proper shape and To develop off season guava lines 	Pahartali
164.	Hybridization of guava	<ul style="list-style-type: none"> To transfer seedlessness in BARIP eyara and To make diverged genotypes for the development of suitable variety 	Narsingdi
165.	Evaluation of color fleshed guava germplasm	<ul style="list-style-type: none"> To determine the yield potentiality and To develop a color fleshed guava variety 	Hathazari
166.	Evaluation of colour fleshed off season guava germplasm	<ul style="list-style-type: none"> To select superior lines for year-round production of colour fleshed guava. 	Gazipur
167.	Hybridization of local guava with improved / exotic guava varieties	<ul style="list-style-type: none"> To incorporate taste and flavour of local guava and To increase the size of the local guava 	Gazipur Rahmatpur and Hathazari
168.	Collection, screening and hybridization of	<ul style="list-style-type: none"> To study the variability of guava variety/cultivar in order to select the superior ones and 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	popular guava cultivar/variety	<ul style="list-style-type: none"> To develop guava variety with good quality and higher yield 	
169.	Clonal selection of guava	<ul style="list-style-type: none"> To develop high yielding good quality guava variety and To select quality guava lines for southern resion 	Hathazari and Rahmatpur
170.	Evaluation of guava germplasm	<ul style="list-style-type: none"> To find out high yielding good quality guava variety and To select the superior variety for commercial cultivation 	Burirhat and Gazipur
171.	Purification of shahipepe through half-sib method	<ul style="list-style-type: none"> To regain the characteristics of Shahi Pepe and To maintain the germplasm 	Gazipur and Binodpur
172.	Collection, evaluation and conservation of hermaphrodite papaya germplasm	<ul style="list-style-type: none"> To develop gynodioecios variety and To conserve the germplasm 	Gazipur
173.	Development of population for gynodioecious papaya variety	<ul style="list-style-type: none"> To develop gynodioecious variety and To conserve the gynodioecious variety 	Gazipur
174.	Heterosis Breeding in Papaya for PRSV tolerance	<ul style="list-style-type: none"> To develop PRSV resistant papaya hybrids 	Gazipur
175.	Survey, collection and evaluation of papaya germplasm for hybrid papaya (virus resistance and trait improvement) development	<ul style="list-style-type: none"> To enrich papaya germplasm To develop improved papaya hybrids and To develop virus resistant papaya variety 	Gazipur
176.	Interspecific hybridization in cultivated Papaya	<ul style="list-style-type: none"> To develop superior papaya hybrids and To incorporate desire trait (color, flesh thickness and taste) 	Gazipur
177.	Performance of hybrid papaya in Cumilla region	<ul style="list-style-type: none"> To find out the yield potentiality of papaya varieties 	Cumilla
178.	Collection and evaluation of litchi germplasm	<ul style="list-style-type: none"> To select superior early and late litchi lines for releasing variety(s) and To increase genetic diversity 	Jaintapur Debigonj Burirhat and Gazipur
179.	Hybridization in litchi	<ul style="list-style-type: none"> To incorporate desirable characters and To develop new variety 	Gazipur and Debiganj
180.	Collection, evaluation and maintenance of local and exotic litchi germplasm	<ul style="list-style-type: none"> To select superior genotype for release as variety and 	Gazipur, Jaintiapur and Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To establish a litchi orchard for exploitation in breeding programme in future 	
181.	Collection and evaluation of local/sour type ber germplasm	<ul style="list-style-type: none"> To select suitable ber varieties for different regions and To conserve fruit genetic resources Location: Binodpur, Jashore, Chapainawabganj, Gazipur Jamalpur, Khagrachari, Narshingdi, Jaintapur and Patuakhali	
182.	Hybridization in ber	<ul style="list-style-type: none"> To incorporate desirable characters and To get higher yield 	Jamalpur
183.	Performance of pineapple cultivars in Barisal region	<ul style="list-style-type: none"> To select suitable varieties for commercial cultivation and To select the best cultivar for southern region 	Rahmatpur
184.	Collection, conservation and evaluation of pineapple germplasm	<ul style="list-style-type: none"> To study the genetic diversity of pineapple in Bangladesh and To select suitable germplasms releasing as variety 	Jaintapur
185.	Clonal selection of pineapple for small crown	<ul style="list-style-type: none"> To select the superior lines for release as variety and To facilitate easy transportation 	Jaintapur and Khagrachari
186.	Evaluation of green coconut germplasm	<ul style="list-style-type: none"> To find out green coconut as well as coconut variety 	Chattagram and Barishal
187.	Collection and evaluation of coconut in the hilly areas	<ul style="list-style-type: none"> To find out the suitable germplasm for higher yield and quality 	Raikhali
188.	Evaluation of green coconut lines at ARS Pahartali, Chattagram	<ul style="list-style-type: none"> To find out green coconut as well as coconut variety 	Pahartali
189.	Hybridization in Coconut (Dwarf X BARI Coconut-2)	<ul style="list-style-type: none"> To develop semi dwarf coconut variety To increase the size of coconut and To incorporate desirable traits 	Rahamatpur
190.	Collection and evaluation of local and exotic mandarin germplasm	<ul style="list-style-type: none"> To select suitable lines for release as variety (s) and To increase genetic resources 	Jaintapur and Rahmatpur
191.	Evaluation of superior mandarin germplasm	<ul style="list-style-type: none"> To select the superior line for releasing as variety and To get higher yield and quality fruits Location: Gazipur, Jaintapur, Khagrachari, Raikhali, Ramgarh and Debigonj	
192.	Evaluation of sweet orange germplasm	<ul style="list-style-type: none"> To select the desirable sweet orange lines and To conserve fruit genetic resources 	Raikhali
193.	Study the life cycle event of BARI sweet orange at Narshingdi region	<ul style="list-style-type: none"> To study the phenological growth patterns, flowering and fruiting behavior 	Narshingdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
		of BARI Sweet Orange-1 in Narshingdi region.	
194.	Collection, evaluation and conservation of local and exotic citrus species	<ul style="list-style-type: none"> To conserve fruit genetic resources and to collect, conserve and characterize local and exotic lines 	Jaintapur and Akbarpur
195.	<i>In situ</i> assessment of mandarin under north-eastern hilly area of Bangladesh	<ul style="list-style-type: none"> To release suitable variety(s) and To enrich gene pool 	Jaintapur
196.	Characterization and evaluation of mandarin and sweet orange in the hilly area of Sylhet region	<ul style="list-style-type: none"> Identification of elite valuable genotypes. To increase quality production for internal consumption as well as for export markets 	Jaintapur
197.	Collection and evaluation of local pummelo germplasm	<ul style="list-style-type: none"> To select superior pummelo lines for releasing as variety and To conserve genetic resources 	Jashore Akbarpur Jaintapur Khagrachari and Raikhali
198.	<i>In situ</i> evaluation of year-round pummelo germplasm	<ul style="list-style-type: none"> To find out superior genotypes of pummelo germplasm for better yield and insect-pest resistant and To develop a suitable pummelo variety available for round the year 	Khagrachari
199.	Collection and evaluation of year-round pummelo germplasm for Cumilla region	<ul style="list-style-type: none"> To find out superior year-round pummelo genotypes to release as variety and To study on the diversity of pummelo genotypes 	Cumilla
200.	Evaluation of lemon germplasm	<ul style="list-style-type: none"> To select suitable lines of lemon and To conserve germplasm 	Gazipur and Akbarpur
201.	Collection and evaluation of local and exotic lime germplasm	<ul style="list-style-type: none"> To select the superior lines for release a new variety and To conserve genetic resources 	Gazipur Binodpur Rahamatpur and Jashore
202.	Collection and evaluation of satkara, ada jamir and jara lemon germplasm	<ul style="list-style-type: none"> To characterize and select suitable line(s) To conserve fruit genetic resources 	Akbarpur Jaintapur and Khagrachari
203.	Collection and evaluation of lime, jaralebu, Colombo lebu germplasm	<ul style="list-style-type: none"> To evaluate the lime, jara lebu, Colombo lebu germplasm at Jamalpur region 	Jamalpur and Narshingdi
204.	Collection, characterization, evaluation and	<ul style="list-style-type: none"> To collect different citrus species and To enrich genetic diversity of citrus 	Jaintapur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	conservation of different citrus species		
205.	Evaluation of satkara germplasm	<ul style="list-style-type: none"> To select suitable line(s) for commercial cultivation 	Jaintapur
206.	Strengthening research on drought, waterlogging, salinity and other stress tolerant indigenous fruit crops	<ul style="list-style-type: none"> Drought, waterlogging, salinity and other stress tolerant indigenous improved fruit germplasm collected, characterized, evaluated and conserved for variety development and Propagation techniques and location specific improved production technologies developed 	Gazipur Jamalpur Khagrachari Rajshahi Pahartali Barishal, Satkhira and Jashore
207.	Collection and evaluation of minor fruits germplasm	<ul style="list-style-type: none"> To find out the suitable genotype(s) of minor fruit lines and To conserve the minor fruit lines for diversification of genetic resources 	Ramgarh Jamalpur Gazipur and Jaintapur
208.	Improvement of custard apple through interspecific hybridization	<ul style="list-style-type: none"> To perform cross between custard apple and bullock's heart germplasm and To improve the size and smoothness of the fruit skin 	Gazipur and Jashore
209.	Collection and evaluation of custard apple and bullock's heart germplasm	<ul style="list-style-type: none"> To select superior lines for releasing variety(s) and To increase fruit genetic resources 	Jaintapur and Jamalpur
210.	Evaluation of custard apple germplasm	<ul style="list-style-type: none"> To select superior lines of custard apple and To conserve germplasm 	Gazipur, Binodpur Chapainawabganj and Debiganj
211.	Collection and evaluation of bullock's heart germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Cumilla Chapainawabganj and Jashore
212.	Collection and evaluation of velvet apple (<i>Diospyros discolor</i>) germplasm	<ul style="list-style-type: none"> To enrich the germplasm pool for velvet apple (Bilati gub) To screen the superior line and To develop new variety 	Rahamatpur
213.	Study on floral biology of river ebony and velvet apple	<ul style="list-style-type: none"> To study the flowering behaviour of river ebony and velvet apple and To improve the fruit colour and other qualities of river ebony in performing hybridization programme between river ebony and velvet apple 	Gazipur and Rahamatpur
214.	Hybridization in golden apple	<ul style="list-style-type: none"> To incorporate desirable characteristics to the existing varieties of golden apple for improving yield potential and To develop a new hybrid 	Gazipur and Rahamatpur
215.	Study on floral biology and pollen preservation of golden apple (<i>Spondius dulcis</i>)	<ul style="list-style-type: none"> To provide detail information about floral biology, which will help to 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		perform appropriate crosses in golden apple breeding programs and <ul style="list-style-type: none"> To develop techniques for pollen preservation 	
216.	Evaluation of golden apple germplasm	<ul style="list-style-type: none"> To select superior golden apple lines and To conserve germplasm 	Jaintapur and Ramgarh
217.	<i>In situ</i> evaluation and collection of superior burmese grape genotype	<ul style="list-style-type: none"> To select suitable lines of lotkon 	Narsingdi
218.	<i>In situ</i> evaluation and collection of superior Burmese grape germplasm in Narsingdi region	<ul style="list-style-type: none"> To identify the superior lines of Burmese grape. 	Narsingdi
219.	Collection and evaluation of Burmese grape germplasm	<ul style="list-style-type: none"> To find out superior genotypes and To find out sweetable early and late enotypes of Burmese grape. 	Narsingdi Jaintapur and Gazipur
220.	Collection, characterization and evaluation of pomegranate germplasm	<ul style="list-style-type: none"> To select a suitable variety of pomegranate 	Narshingdi and Binodpur
221.	Evaluation of pomegranate germplasm	<ul style="list-style-type: none"> To select a suitable variety of pomegranate and To conserve germplasm 	Narsingdi Nawabgonj Gazipur and Akbarpur
222.	Evaluation of promising longan germplasm	<ul style="list-style-type: none"> To observe field performances as well as to assess the genetic diversities of promising Longan germplasm 	Hathazari
223.	Collection and evaluation of bael germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources Location: Burirhat, Jaintapur, Ishurdi, Raikhali, Chapainawabganj, Jamalpur and Debiganj 	
224.	<i>In situ</i> evaluation of bael germplasm (large size) in various locations	<ul style="list-style-type: none"> To find out a suitable large size bael germplasm for releasing as a variety To select superior lines and To conserve fruit genetic resources 	Burirhat and Jashore
225.	Evaluation of wood apple germplasm	<ul style="list-style-type: none"> To select superior lines for releasing a variety and To conserve germplasm 	Burirhat, Gazipur Raikhali and Khagrachari
226.	Study on the floral biology and pollen preservation of wood apple (<i>Feronia limonia</i>)	<ul style="list-style-type: none"> To provide detail information about floral biology, which will help to perform appropriate crosses in wood apple breeding programs and To develop techniques for pollen preservation 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
227.	Collection and evaluation of wood apple (<i>Feronia limonia</i>) germplasm	<ul style="list-style-type: none"> To evaluate the performance of different Wood Apple germplasm and To select superior lines to release variety 	Jaintapur
228.	Collection and evaluation of Indian dillenia germplasm	<ul style="list-style-type: none"> To identify some suitable genotype and To develop a variety 	Jashore and Rahmatpur
229.	Evaluation of Indian olive germplasm	<ul style="list-style-type: none"> To select the superior lines for releasing variety 	Jaintapur and Hathazri
230.	Collection and evaluation of bael, wood apple, pomegranate, custard apple, bullock's heart and burmese grape germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Gazipur, Jashore, Rahmatpur Jaintapur Khagrachari and Narshingdi
231.	Collection and evaluation of jamun germplasm	<ul style="list-style-type: none"> To find out superior genotypes of jamun germplasm for better yield and insect-pest resistant and To develop a suitable jamun variety for commercial cultivation at hilly region 	Jashore, Khagrachari, Rahmatpur and Raikhali
232.	Collection and evaluation of jamun, carambola and bilimbi germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Gazipur, Jamalpur and Binodpur
233.	Evaluation of carambola germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Debiganj
234.	Collection and evaluation of beal, wood apple and lukluki germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	
235.	Collection and evaluation of monkey jack, chapalish, Indian olive and deyfal germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Gazipur, Rahmatpur and Ramgarh
236.	Collection and evaluation of tamarind and sour ber germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Gazipur and Khagrachari
237.	Physio-morphological characterization and floral biology of Daophal (<i>Garcinia xanthochymus</i>)	<ul style="list-style-type: none"> To generate detailed information about floral biology of Daophal 	Jaintapur and Gazipur
238.	Evaluation of existing sapota lines	<ul style="list-style-type: none"> To select superior sapota lines for releasing as variety and To increase yield and quality 	Rahmatpur
239.	Evaluation of falsa germplasm	<ul style="list-style-type: none"> To select a suitable variety of falsa and To conserve germplasm 	Binodpur and Raikhali
240.	Collection and evaluation of palmyra palm (<i>Borassus flabellifer</i> L.) germplasm	<ul style="list-style-type: none"> To find out the suitable germplasm for higher yield and better fruit quality and To identify and collect the superior germplasm 	Gazipur, Jaintapur and Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
241.	Collection and evaluation of water chestnut germplasm	<ul style="list-style-type: none"> To collect the indigenous and exotic germplasm To study the morphological characteristics of collected germplasm of water chestnut To evaluate the best germplasm suitable for cultivation under saline and waterlogged conditions. 	Satkhira and Jamalpur
242.	Collection and evaluation of star goose berry germplasm	<ul style="list-style-type: none"> To find out superior germplasm of Star goose berry and To conserve genetic resources of fruits 	Jamalpur
243.	Survey, collection and morphological and molecular characterization of lean season fruit germplasm	<ul style="list-style-type: none"> To collect and characterize the selected lean season fruit germplasm 	Gazipur Debiganj Raikhali and Rahmatpur
244.	Evaluation and selection of superior germplasm of collected lean season fruit species	<ul style="list-style-type: none"> To select the superior germplasm and develop lean season fruit variety 	Gazipur Debiganj Raikhali and Rahmatpur
245.	Collection and evaluation of velvet apple, river ebony and karonda germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Gazipur
246.	Collection and evaluation of golden apple, indian dillenia and cowa germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Gazipur and Rahmatpur
247.	Collection, conservation and evaluation of cashew nut germplasm in the hilly region of Bangladesh	<ul style="list-style-type: none"> Collection of cashew nut germplasm from different locations of CHT Conservation of collected germplasm through ex-situ methods of conservation Evaluation of germplasm for varietal development activities 	Khagrachari
248.	Characterization and evaluation of collected soursop germplasm in hilly region of Bangladesh	<ul style="list-style-type: none"> To select the superior germplasm Soursop and To develop high yielding good quality Soursop variety 	Khagrachari
249.	Study on floral morphology and pollination requirement in dragon fruit (<i>Hylocereus</i> spp.)	<ul style="list-style-type: none"> To study in detail the floral biology of dragon fruit and To determine their pollination requirement and propose agro-managements that can improve the efficiency of pollination, fruit quality, and yield 	Jaintapur

Sl. No.	Research Title	Major Objective (s)	Location (s)
250.	Study on the performance of six different dragon fruit lines in hilly region	<ul style="list-style-type: none"> To investigate the performance of six different dragon fruit lines and Determination of actual differences between released variety and promising lines 	Ramgarh
251.	Evaluation of dragon fruit germplasm	<ul style="list-style-type: none"> To find out the suitable germplasm for higher yield and quality 	Raikhali, Jaintapur, Debiganj, Patuakhali and Gazipur
252.	Evaluation of avocado lines	<ul style="list-style-type: none"> To study yield and quality of fruits and To find out the suitable lines of avocado 	Gazipur and Akbarpur
253.	Study on Life cycle event of BARI Dragonfruit-1 at different location	<ul style="list-style-type: none"> To study the phenological growth patterns, flowering and fruiting behavior of BARI Dragonfruit-1 	Narshingdi, Jaintapur and Jashore
254.	Study on the flowering and fruiting phenology and pollination agents of <i>hylocereus</i> sp. var. BARI Dragonfruit-1	<ul style="list-style-type: none"> To find out the pollination system of BARI Dragonfruit-1 and To observe the pollination agents of BARI Dragonfruit-1 	Raikhali
255.	Study on floral biology and pollen preservation of avocado (<i>Persea americana</i>)	<ul style="list-style-type: none"> To provide detail information about floral biology, which will help to perform appropriate crosses in avocado breeding To develop techniques for pollen preservation 	Gazipur
256.	Evaluation of persimmon germplasm	<ul style="list-style-type: none"> To select a suitable variety of persimmon To enrich and conserve germplasm 	Gazipur
257.	Inter specific hybridization between persimmon and velvet apple	<ul style="list-style-type: none"> To ameliorate the size and improving colour of persimmon 	Gazipur
258.	Collection and evaluation of exotic fruit germplasm	<ul style="list-style-type: none"> To select superior lines and To conserve fruit genetic resources 	Jaintapur and Gazipur
259.	Effect of time and method of grafting on the success and survivability of Jackfruit using Hijol plant as rootstock	<ul style="list-style-type: none"> To find out the suitable time and method of grafting and To evaluate Hijol plant as rootstock 	Jaintapur and Gazipur
260.	Effect of <i>in situ</i> grafting on growth, yield and quality of jackfruit	<ul style="list-style-type: none"> To find out the success of grafting and its subsequent growth and To determine the influence of grafting on bearing, yield and quality of Jackfruit 	Gazipur
261.	Effect of time and variety on grafting success in jackfruit	<ul style="list-style-type: none"> To find out suitable time for grafting and To find out suitable jackfruit variety(s) for grafting 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
262.	Effect of rootstocks on growth, disease incidence and yield of guava	<ul style="list-style-type: none"> To increase yield and quality of guava fruits and To find out suitable rootstock for minimizing disease incidence of guava 	Gazipur Rahamatpur Hathazari Pahartali and Patuakhali
263.	Studies on performance of grafting in BARI payera-4	<ul style="list-style-type: none"> To find a suitable vegetative propagation technique for BARI Payera-4 	Raikhali
264.	<i>In vitro</i> propagation of guava (<i>Psidiumguajava L.</i>)	<ul style="list-style-type: none"> To develop a suitable protocol for <i>in vitro</i> propagation of guava (<i>Psidiumguajava L.</i>) To produce a large amount uniform planting material of BARI payera-2 in a short time 	Gazipur
265.	Effect of time and variety on success and survivability of litchi grafts	<ul style="list-style-type: none"> To find out the suitable time and method for litchi grafting 	Gazipur
266.	Performance of grafted litchi plant	<ul style="list-style-type: none"> To study the flowering and fruiting of grafted litchi plant and To compare the performance of grafted litchi trees and air layered litchi trees 	Gazipur
267.	Micro-propagation of papaya (<i>carica papaya l.</i>) cv. Shahi	<ul style="list-style-type: none"> To develop a suitable and reproducible protocol for micro propagation of papaya cv. Shahi and To refine the existing tissue culture protocol of papaya. 	Gazipur
268.	Influence of rootstock on the growth, yield and quality of mandarin	<ul style="list-style-type: none"> To find out the suitable rootstock for mandarin and To increase yield and quality of mandarin 	Jaintapur Khagrachari and Raikhali
269.	Effect of rootstock and method of grafting on growth and yield of BARI Sweet Orange-1	<ul style="list-style-type: none"> To identify the appropriate rootstock for BARI Sweet Orange-1 and To select suitable grafting method for growth and development of BARI Sweet Orange-1 	Hathazari
270.	Influence of rootstock on the growth, yield and quality of sweet orange	<ul style="list-style-type: none"> To find out the suitable rootstocks for sweet orange and To increase yield and quality of sweet orange 	Jaintapur Raikhali and Rahamatpur
271.	Propagation of BARI Mandarin-1 and BARI Sweet Orange-1 by shoot tip grafting	<ul style="list-style-type: none"> To produce disease free mother plants 	Jaintapur
272.	Effect of IBA on root development and growth	<ul style="list-style-type: none"> To develop an efficient propagule production protocol where judicious use of hormone will be done 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	of colombo lebu (<i>Citrus lemon</i>)		
273.	Performance of different propagation techniques in growth and development of cowa	<ul style="list-style-type: none"> To find out suitable propagation technique 	Rahmatpur
274.	Performance of different rootstocks on the growth and yield of satkara	<ul style="list-style-type: none"> To find out suitable rootstock for better growth and higher survival and To increase yield and quality of satkara 	Jaintapur
275.	Effect of time and method of grafting on the success and survivability of Taikor (<i>Gercinia pedunculata</i>)	<ul style="list-style-type: none"> To standardize the time and method of grafting of Taikor 	Jaintapur
276.	Effect of time of grafting and type of scion on the success and survivability of rambutan	<ul style="list-style-type: none"> To standardize the time and type of scion for higher success in rambutan grafting 	Gazipur
277.	Success and survivability of rambutan layer as influenced by leaf retention and watering	<ul style="list-style-type: none"> To find out the % success and subsequent growth of layer and To standardize frequency of watering for higher success 	Gazipur
278.	Effect of IBA and time on air layering of rambutan	<ul style="list-style-type: none"> To determine the suitable time of layering and concentration of IBA for maximizing success in air layering of rambutan 	Gazipur and Khagrachhari
279.	Effect of rootstocks and grafting methods on the success and survivability of rambutan (<i>Nephelium lappaceum</i>)	<ul style="list-style-type: none"> To find out suitable rootstocks for survivability of Rambutan and To increase yield and quality of Rambutan fruits 	Gazipur and Khagrachhari
280.	Effect of time and methods of grafting on survivability and growth of persimmon	<ul style="list-style-type: none"> To find out the optimum time and method for survivability and growth of persimmon graft 	Gazipur
281.	Role of IBA on stem cutting of persimmon	<ul style="list-style-type: none"> To determine the suitable concentration of IBA and To optimize the time of cutting for maximizing success in stem cutting of persimmon 	Gazipur
282.	Effect of method of propagation on success and growth of cashewnut	<ul style="list-style-type: none"> To find out the suitable technique/method of propagation and To achieve higher success and survival from propagation method 	Hathazari

Sl. No.	Research Title	Major Objective (s)	Location (s)
283.	Effect of time of grafting and type of scion on the success and survivility of avocado	<ul style="list-style-type: none"> To standardize the time and type of scion for higher success in avocado grafting 	Gazipur
284.	Standardizing propagation techniques of important lean season fruit crops	<ul style="list-style-type: none"> To find out the optimum time and method for survivility and growth of Golden apple, Bullock's heart, Custard apple etc graft. 	Gazipur Debiganj Raikhali and Rahmatpur
285.	Observation trial of jackfruit plant under water logging condition	<ul style="list-style-type: none"> To observe jackfruit plant under water logging condition and To observe effect of water-soaked seed for tolerance of submerged condition 	Jamalpur
286.	Rejuvenation of dense planting mango tree (gbm extension block) through time and different type of pruning	<ul style="list-style-type: none"> To regenerate flowering and fruiting of mango tree and To increase yield potentiality 	Chapainawabganj
287.	Rejuvenation of high-density mango orchard through pruning	<ul style="list-style-type: none"> To develop appropriate pruning technique for high density mango orchard 	Pahartali
288.	Rejuvenation of old mango trees through pruning technologies	<ul style="list-style-type: none"> To know the effect of different pruning techniques on reviving the mango trees and To develop a sustainable technology for the management of old mango orchard 	Jashore
289.	Organic production of mango	<ul style="list-style-type: none"> To investigate the effect of organic manures (compost/cowdung/any other) in mango and To standardize the organic manures (compost/cowdung/any other) for quality mango production 	Gazipur
290.	Effects of gibberellins and frequency of application on the delay harvesting, yield and fruit quality of mango cv. Langra	<ul style="list-style-type: none"> To find out the effects of GA₃ on delay harvesting and To improve the yield and fruit quality of mango 	Binodpur
291.	Effect of bagging on the yield and quality of mango	<ul style="list-style-type: none"> To improve quality of mango and To protect insect and disease incidence 	Gazipur and Jamalpur
292.	Effect of management practices on fruit cracking of mango	<ul style="list-style-type: none"> To explore the optimal period of irrigation during dry season in Chattogram region 	Hathazari and Gazipur
293.	Performance of high-density planting on the growth, yield and quality of mango	<ul style="list-style-type: none"> To maximize yield and quality and use land judicially 	Gazipur
294.	Development of dwarf shape of BARI released	<ul style="list-style-type: none"> To develop dwarf mango variety 	Chapainawabganj

Sl. No.	Research Title	Major Objective (s)	Location (s)
	mango variety through grafting & pruning	<ul style="list-style-type: none"> To identify suitable technique/technology for the development of dwarf variety 	
295.	Implementation of Good Agricultural Practices (GAP) for safe and quality mango production and marketing	<ul style="list-style-type: none"> To know the effect of GAP on the yield and quality of mango To know the effect of GAP on postharvest loss minimization and To develop a protocol for safe and quality mango production and marketing 	Jashore, Chapainowabgonj and Gazipur
296.	Tree size management in mango	<ul style="list-style-type: none"> To control the tree size for better management like bagging, harvesting, reducing disease and insect infestation and To get higher yield and quality of mango 	Gazipur
297.	Effects different management practices to overcome alternate bearing habit of mango	<ul style="list-style-type: none"> To overcome alternate bearing habit of mango and To increase mango production 	Chapainawabganj
298.	Performance of fruit bagging testing at different location and different varieties on colour development and shelf life of mango	<ul style="list-style-type: none"> To find out suitable time of bagging and To ensure good quality mango with minimum use of pesticides. 	Chapainawabganj and Khagrachari
299.	Effect of time of allowing suckers on yield and fruit quality in banana varieties	<ul style="list-style-type: none"> To find out the suitable date for allowing sucker of banana and To increase the land use efficiency in banana 	Gazipur
300.	Effect of different doses of herbicide glufosinate-ammonium 88% (expert 88 wdg) to control weed on banana field	<ul style="list-style-type: none"> To find out the optimum dose of herbicide to control weed in the banana field 	Gazipur
301.	Effect of high-density planting on growth, yield and quality of guava	<ul style="list-style-type: none"> To maximize yield, quality and maximize the use of land 	Gazipur
302.	Sex reversal and fruit formation on male plants of papaya by ethrel and chlorflurenol	<ul style="list-style-type: none"> To study the role of these chemical in sex reversal and fruit formation of papaya. 	Gazipur
303.	Effect of different doses of paclobutrazol and girdling on flowering in litchi	<ul style="list-style-type: none"> To observe the response of paclobutrazol on flowering in litchi 	Gazipur and Khagrachari
304.	Effect of bagging on the fruit quality of litchi	<ul style="list-style-type: none"> To control fruit borer of litchi and To protect litchi from sun, burn disorder. 	Ishurdi and Akbarpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
305.	Study on the pollen viability of litchi germplasm	<ul style="list-style-type: none"> To determine the pollen viability for hybridization 	Gazipur
306.	Effect of growth regulator and bagging on extending litchi harvesting period	<ul style="list-style-type: none"> To extend the litchi harvesting period. 	Gazipur Khagrachari and Debiganj
307.	Effect of girdling on flowering, fruiting and yield of litchi	<ul style="list-style-type: none"> To increase flowering, fruiting and yield of litchi 	Gazipur
308.	Induction of dwarfing growth habit of coconut through root and shoot trimming	<ul style="list-style-type: none"> To reduce unproductive juvenile period of coconut. To get higher yield and quality fruits 	Patuakhali and Norshingdi
309.	Effect of fertilizer on flower and fruit drop in coconut	<ul style="list-style-type: none"> To observe the effect of fertilizer on fruit drop and yield of coconut 	Rahmatpur and Jashore
310.	Effect of irrigation on flower and fruit drop in coconut	<ul style="list-style-type: none"> To observe the effect of irrigation on coconut 	Rahmatpur and Jashore
311.	Effect of plant growth regulators on fruit drop and yield of coconut	<ul style="list-style-type: none"> To observe the effect of plant growth regulators on fruit drop and yield of coconut 	Rahmatpur and Jashore
312.	Effect of growth regulator on prevention of fruit drop in sweet orange at Narshingdi region	<ul style="list-style-type: none"> To prevent the fruit loss due to fruit dropping in sweet orange 	Narshingdi
313.	Effect of leaf to fruit ratio on yield and quality of sweet orange	<ul style="list-style-type: none"> To find out a suitable leaf to fruit ratio for optimum yield and To observe the quality of fruits in respect to leaf-fruit ratio 	Gazipur Rahmatpur
314.	Effect of fertilizer application on yield and quality of sweet orange	<ul style="list-style-type: none"> To find out a suitable fertilizer dose for optimum yield and To observe the quality of fruits in respect to fertilizer dose 	Gazipur and Rahmatpur
315.	Selection of suitable shade tree(s) for mandarin production	<ul style="list-style-type: none"> To Select a suitable shade tree(s) for mandarin orchard and To increase yield and quality of fruits 	Jaintapur
316.	Protective culture of BARI Mandarin-1 and BARI Sweet Orange-1	<ul style="list-style-type: none"> To standardize protective cultivation procedure for BARI Mandarin-1 and BARI Sweet Orange-1 and To increase mass production of BARI Mandarin-1 and BARI Sweet Orange-1 	Jaintapur
317.	Influence of sowing time on germination and growth of different citrus	<ul style="list-style-type: none"> To find out the suitable time of sowing and To select suitable rootstock seedlings 	Jaintapur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	rootstocks seedling under high rainfall area		
318.	Identification and performance of the nucellar and zygotic citrus seedlings in polyembryonic citrus varieties	<ul style="list-style-type: none"> To differentiate the nucellar and zygotic citrus seedlings and To study the growth pattern of the nucellar and zygotic citrus seedlings 	Jaintapur
319.	Effect of wrapping papers on physiological changes and shelf-life of golden apple	<ul style="list-style-type: none"> To obtain information on some physical changes during ripening with different postharvest wrapping paper treatments and To know the shelf life of golden apple 	Rahmatpur
320.	Effect of thinning on the yield and quality of dragon fruit	<ul style="list-style-type: none"> To determine the optimum number of fruits for better production and To find out quality yield of dragon fruit 	Pahartali
321.	Effect of light application on flower and fruit setting of dragon fruit	<ul style="list-style-type: none"> To verify flowering response of Dragon fruit to light induction To increase the yield of Dragon fruit and To produce dragon fruit in the off-season 	Jashore
322.	Effect of stem pruning on the growth and yield of dragon fruit	<ul style="list-style-type: none"> To standardize the stem pruning of dragon fruit 	Jalampur
323.	Effect of plant growth regulators on the incidence of mango malformation in BARI Mango-3	<ul style="list-style-type: none"> To find out the suitable dose of NAA for the reduction of panicle (floral) malformation and To observe the effect of NAA on fruit yield. 	Gazipur
324.	Flowering in litchi as influenced by temperature at various locations.	<ul style="list-style-type: none"> To investigate the relationship between temperatures and floral formation 	Gazipur and Debiganj
325.	Screening of litchi variety /cultivars against salinity	<ul style="list-style-type: none"> To find out the performance of litchi under saline condition 	Gazipur
326.	Screening of litchi variety /cultivars against water logging.	<ul style="list-style-type: none"> To find out the tolerance level of litchi layers under water logging condition 	Gazipur
327.	Effect of 2,4-DP (2,4-dichlorophenoxypropionic acid) on fruit size and yield of sweet orange var. BARI Sweet Orange-1	<ul style="list-style-type: none"> To minimize fruit drop and To increase the fruit size and yield 	Gazipur
328.	Effect of water logging and drought on citrus rootstocks	<ul style="list-style-type: none"> To find out the tolerance level of citrus rootstocks under water logging condition 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
329.	Effect of Gibberellic Acid (GA ₃) on seedlessness of longan (<i>Nephelium longana</i> , Linn.)	<ul style="list-style-type: none"> To evaluate the effect of GA₃ on seedlessness, yield and quality of longan fruits at harvest. 	Gazipur
330.	Effect of GA ₃ on seedlessness of Burmese grape	<ul style="list-style-type: none"> To evaluate the effect of GA₃ on seedlessness, yield and quality of Burmese grape fruit 	Gazipur, Narshingdi and Akbarpur
331.	Effect of GA ₃ on seedlessness of Rambutan	<ul style="list-style-type: none"> To evaluate the effect of GA₃ on seedlessness, yield and quality of rambutan fruits at harvest 	Gazipur
332.	Effect of growth regulators and chemicals on manipulating harvest time and increasing yield and quality of selected lean season fruit species	<ul style="list-style-type: none"> To find out the effective growth regulator(s) for manipulating harvesting time and increase yield for lean season fruits 	Gazipur
333.	Identification of the causal organism of bacterial disease of mango at Rajshahi region	<ul style="list-style-type: none"> To identify the causal organism of bacterial diseases on mango fruits 	Binodpur
334.	Survey on panama disease and study on diversity of <i>Fusarium oxysporum</i> f.sp. <i>cubense</i> in banana	<ul style="list-style-type: none"> To collect isolates of panama pathogen of banana for characterization 	Bogura, Rangpur, Narsingdi and Jashore
335.	Monitoring of post harvest diseases in common horticultural fruits and vegetables	<ul style="list-style-type: none"> To identify the post harvest diseases of fruits and vegetables and To record the disease incidence in post harvest fruit and vegetables 	Gazipur
336.	Dissemination of gummosis disease management technology in citrus	<ul style="list-style-type: none"> To disseminate of gummosis disease management technique in farmer's field 	Norsingdi
337.	Management of gummosis disease of citrus	<ul style="list-style-type: none"> To develop appropriate technology against gummosis disease management 	Narsingdi
338.	Identification of minor fruit diseases	<ul style="list-style-type: none"> To Identify diseases of different minor fruit crops 	Pahartali
339.	Efficacy of different types of bags for management of mango fruit fly, <i>Bactrocera dorsalis</i> attacking mango	<ul style="list-style-type: none"> To find out suitable method of reducing fruit fly population in mango 	Binodpur
340.	Effect of different types of management practices to control major insects of guava	<ul style="list-style-type: none"> To find out the most effective management practice for controlling insect pests 	Hathazari

Sl. No.	Research Title	Major Objective (s)	Location (s)
341.	Development of effective control measure against oriental fruit fly, <i>Bactrocera dorsalis</i> attacking guava	<ul style="list-style-type: none"> To find out the most suitable method for reducing fruit fly infestation in guava. 	Binodpur
342.	Development of management approach against litchi fruit borer (<i>Conopomorpha inensis</i>)	<ul style="list-style-type: none"> To develop cost effective guidelines for managing litchi fruit borer. 	Binodpur
343.	Susceptibility of different varieties of litchi to litchi mite (<i>Aceria litchi keifer</i>)	<ul style="list-style-type: none"> To find out the susceptibility of different varieties of litchi to litchi mite 	Binodpur
344.	Survey and monitoring of insect pests of roof garden	<ul style="list-style-type: none"> To find out the insect pests' status and its severity at roof garden 	Gazipur
345.	Incidence of major pest and disease of citrus at nursery level in Sylhet region	<ul style="list-style-type: none"> To find out the incidence pattern of major pest and disease at nursery level in Sylhet region 	Sylhet region
346.	Development of effective management technique against oriental fruit fly attacking custard apple	<ul style="list-style-type: none"> To find out the economically viable technique to reduce fruit fly infestation in custard apple 	Binodpur
347.	Development of integrated management approach against wax apple fruit flies	<ul style="list-style-type: none"> To develop cost effective guidelines for managing wax apple fruit fly 	Binodpur
348.	Survey and documentation of insect pollinators/visitors in different fruit crops during flowering period	<ul style="list-style-type: none"> To document the different pollinators/visitors of different fruit crops during flowering period 	Binodpur
349.	Effect of different fertilizer dose on growth, yield and quality of jackfruit	<ul style="list-style-type: none"> To promote the initial growth rate of jackfruit saplings and To standardize the judicious use of fertilizer 	Gazipur
350.	Effect of irrigation at different growth stages of mango in the hilly area	<ul style="list-style-type: none"> To determine an appropriate irrigation schedule and To determine effect of irrigation at different growth stages 	Khagrachari
351.	Effect of foliar and soil application of copper and boron for reducing fruit dropping and increasing yield of old mango trees	<ul style="list-style-type: none"> To assess the effect of foliar and soil application of Cu and B on fruit dropping and yield of old mango trees and To develop an optimum dose of Cu and B for mango 	Binodpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
352.	Effects of integrated nutrient management on the performance of mango in hills	<ul style="list-style-type: none"> To identify better combination of organic and inorganic fertilizer package for sustainable productivity of mango in hill 	Khagrachari
353.	Effect of foliar application of micronutrient (boron and zinc) on the yield and quality of mango cv. mollika	<ul style="list-style-type: none"> To assess the influence of foliar application of B and Zn in improving the fruit yield and quality of mango 	Chapai nawabganj
354.	Effect of integrated fertilizer management on growth and yield of mango (cv. Harivanga)	<ul style="list-style-type: none"> To find out optimum doses of organic and inorganic fertilizer 	Gazipur and Burirhat
355.	Growth, yield and quality of mango as influenced by fertilizer and irrigation	<ul style="list-style-type: none"> To investigate the effect of fertilizer and irrigation in mango and To increase the growth, yield and quality of mango 	Gazipur
356.	Effect of boron on yield of BARI Aam-3	<ul style="list-style-type: none"> To find out the effect of foliar application of boron on fruit and To improve the quality and yield of mango at Jamalpur 	Jamalpur
357.	Effect of N, P, K and S fertilizer doses on BARI Payera-4	<ul style="list-style-type: none"> To recommend an exact fertilizer dose for BARI Payera-4 	Raikhali
358.	Effect of foliar application of Ca, Zn and B at different growth stages of guava	<ul style="list-style-type: none"> To determine the influence of foliar application of Ca, Zn and B on guava yield and quality at different growth stages and To assess the impact on the shelf life of fruits 	Binodpur
359.	Effect of foliar application of zinc on growth, yield and fruit quality in guava	<ul style="list-style-type: none"> To find out the optimum level of zinc for better growth, yield and fruit quality of guava and To increase fertilizer uptake 	Gazipur
360.	Response of quality attributes of litchi to foliar application of zinc and boron	<ul style="list-style-type: none"> To determine the influence of foliar application of B and Zn on litchi yield, quality and shelf life of fruits and To determine best concentration and time of application of B and Zn for yield maximization and quality improvement 	Binodpur
361.	Effect of potassium sulphate on litchi	<ul style="list-style-type: none"> To find out effect of Potassium Sulphate on litchi and To determine the optimum level of Potassium Sulphate for better growth and yield of Litchi. 	Lebukhali
362.	Isolation and inoculation of mycorrhizal fungi for	<ul style="list-style-type: none"> To isolate the fungal inoculums from different soils of litchi orchard in Bangladesh and 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	growth, development and fruiting of litchi	<ul style="list-style-type: none"> To evaluate the effect of mycorrhiza on the growth and development of litchi tree 	
363.	Effect of liming on yield performance of malta, litchi and mango	<ul style="list-style-type: none"> To observe the effectiveness of added lime on the crop performance and To observe Phosphorus uptake as affected by liming 	Khagrachari
364.	Response of sweet orange to dolochun in hilly area	<ul style="list-style-type: none"> To find out the optimum dose of dolochun for maximizing yield and fruit quality of malta 	Akbarpur
365.	Effect of irrigation and growth regulators on prevention of fruit drop of mandarin	<ul style="list-style-type: none"> To determine the effect of growth regulators on control of fruit drop in mandarin and To grow mandarin under irrigation and rain-fed condition 	Jaintapur
366.	Effect of organic and inorganic fertilizers on the yield and quality of sweet orange	<ul style="list-style-type: none"> To evaluate the response of organic fertilizer on sweet orange and To increase yield and quality of fruits 	Hathazari
367.	Effect of irrigation and mulch on yield and quality of BARI Sweet Orange-1	<ul style="list-style-type: none"> To minimize fruit drop and To increase the yield and quality 	Cumilla
368.	Effect of vermicompost application on the growth, yield and quality of mandarin	<ul style="list-style-type: none"> To find out the appropriate vermicompost dose for successful mandarin production 	Jaintapur
369.	Integrated nutrient management package for quality mandarin production var. BARI Mandarin-2	<ul style="list-style-type: none"> To established and efficient nutrient management package for mandarin product and To find out suitable dose of organic and chemical fertilizer 	Khagrachari
370.	Yield and profitability of sweet orange var. BARI Malta-1 as influenced by organo-mineral fertilization	<ul style="list-style-type: none"> To examine the cost effectiveness of the use of organic-based fertilizers and To determine the optimum rate of organo-mineral fertilizer in citrus production 	Jaintapur and Cumilla
371.	Effect of nitrogen fertilization at various phenological stages on growth, yield and fruit quality of sweet orange var. BARI Sweet Orange-1	<ul style="list-style-type: none"> To know the response of different N-fertilizer application frequencies on vegetative growth, yield and fruit quality of BARI Sweet Orange-1 	Jaintapur
372.	The effect of N P K fertilization on yield and quality of sweet orange var. BARI Sweet Orange-1	<ul style="list-style-type: none"> To establishing criteria for fertilizer recommendations based on soil test and leaf analyses and 	Jaintapur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To find out optimum doses of NK and ratio of N/K for maximum yield and fruit size of sweet orange 	
373.	Effect of Zn as foliar spray on the growth and yield of sweet orange	<ul style="list-style-type: none"> To determine the optimum level of zinc for better growth and yield of sweet orange and To increase fertilizer uptake 	Narshingdi
374.	Integrated nutrient management package for quality sweet orange production var. BARI Sweet Orange-1	<ul style="list-style-type: none"> Established and efficient nutrient management package for sweet orange production and To find out suitable dose of organic and chemical fertilizer. 	Khagrachari
375.	Effect of different fertilizer management levels on growth, yield and fruit quality of pummelo (<i>Citrus grandis</i>)	<ul style="list-style-type: none"> To determine the effects of different fertilizer management levels on the vegetative and reproductive growth, leaf nutrient status, yield and fruit quality of pummelo 	Raikhali Ramgarh Khagrachhari Hathazari and Akbarpur
376.	Effect of potassium on the growth, yield and quality of sweet orange	<ul style="list-style-type: none"> To show the effect of potassium on the fruit quality of sweet orange and To develop an optimum dose of potassium for maximum growth and production of sweet orange in hilly area of Chottogram 	Raikhali Khagrachhari and Jaintapur
377.	Response of mandarin to N, P, K and Mg fertilizer in hilly region	<ul style="list-style-type: none"> To evaluate the response of mandarin to different nutrients and To find out the optimum dose of NPKMg for maximizing yield and fruit quality of mandarin 	Akbarpur and Jaintapur
378.	Effect of Mn, Zn and Cu addition on the yield and quality of sweet orange	<ul style="list-style-type: none"> To evaluate the response of sweet orange yield and quality to addition of Mn, Zn, and Cu and To determine the optimum rate of Mn, Zn and Cu nutrients for quality sweet orange production 	Gazipur and Akbarpur
379.	Split application of fertilizer on growth, yield and quality of lotkon	<ul style="list-style-type: none"> To promote the initial growth rate of lotkon sapling and fruit quality and To standardize the judicious use of fertilizer 	Narshingdi
380.	Response of strawberry to organic and inorganic fertilizer	<ul style="list-style-type: none"> To find out the effective combination of organic and inorganic fertilizer dose for quality and yield maximization of strawberry ii) To make nutrient balance sheet 	Gazipur and Cumilla
381.	Effect of irrigation on the lean season fruit production	<ul style="list-style-type: none"> To find out the optimum irrigation schedule for the studied crops 	Gazipur Rahmatpur and Raikhali

Sl. No.	Research Title	Major Objective (s)	Location (s)
382.	Integrated package development for growth regulator, fertilizer and irrigation in lean season fruit production	<ul style="list-style-type: none"> To develop the integrated package on growth regulators, fertilizer and irrigation schedule for the selected lean season fruit crops 	Gazipur
383.	Effect of split application of fertilizer on manipulating harvest time, yield and quality of selected minor fruits	<ul style="list-style-type: none"> To find out the optimum fertilizer dose and splits to manipulate harvesting time yield and quality of selected minor fruits 	Gazipur Debiganj Raikhali and Rahmatpur
384.	Design and development of low-cost sensor based automatic irrigation systems for orchard and field crops	<ul style="list-style-type: none"> To design and develop sensor based user-friendly irrigation systems for orchard and field crops and To compare water and cost savings by the systems with those of the conventional methods 	Khagrachari
385.	Inclusive value chain development of jackfruit in some selected areas of Bangladesh	<ul style="list-style-type: none"> To identify the existing supply chain of jackfruit in the selected areas and To ensure quality sapling for jackfruit production through grafting techniques 	Gazipur and Ramgarh
386.	Postharvest storage and value addition of mango through semi solid mesocarp	<ul style="list-style-type: none"> To identify the suitable food additive / preservative for semi solid mango mesocarp preservation To identify the suitable drying percentage for prepared mango and To identify the storage time of prepared mango 	Gazipur
387.	Postharvest quality and marketable life of mango cv. harivanga as influenced by maturity stages	<ul style="list-style-type: none"> To find out the proper stage of maturity and causes of internal breakdown and To maintain quality and extend shelf life/marketable life 	Burirhat
388.	Intervention of postharvest technologies and studies on technical and economic feasibility of integrated technologies in banana value chain	<ul style="list-style-type: none"> To intervene and integration of improved postharvest technologies in banana value chain and To maintain quality and reduce postharvest losses of banana 	Bogura/ Rajshahi to Dhaka and /or Gazipur City
389.	Fresh cut processing techniques of guava using sanitizers	<ul style="list-style-type: none"> To develop fresh cut processing techniques using sanitizers and To study the effect of sanitizers to extend shelf life of guava with quality 	Gazipur
390.	Effect of ethylene absorber (KMNO ₄) and Silica gel on the	<ul style="list-style-type: none"> To know the effect of KMNO₄ on the shelf life To know the effect of Silica gel pack on the shelf life and 	Jashore and Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	postharvest life and quality of papaya	<ul style="list-style-type: none"> To find out the combined effect of $KmNO_4$ and silica gel on the shelf life and postharvest quality of papaya 	
391.	Increasing shelf life of litchi	<ul style="list-style-type: none"> To protect the pericarp browning and quality of litchi and To extend the availability period of litchi 	Gazipur and Debiganj
392.	Effect of hot water treatment with salts on postharvest quality of fresh cut golden apple	<ul style="list-style-type: none"> To develop fresh cut processing techniques of golden apple and To study the effect of hot water treatment with salts to extend the shelf life of fresh cut golden apple maintaining quality 	Gazipur
393.	Nutritional analysis and physicochemical properties of pulp of avocado fruits	<ul style="list-style-type: none"> To analyze the nutritional compositions and physicochemical (specially oil quality) parameters of pulp in avocado fruits 	Gazipur
394.	Development of a simple ripening chamber for uniform and safe ripening of fruits using low-cost ethylene generator	<ul style="list-style-type: none"> To develop a simple fruit ripening chamber To standardize the treatment duration and doses of ethylene and Uniform ripening of commercially mature fruits 	Gazipur
395.	Adoption status productivity and profitability of sweet orange and mandarin cultivation in Sylhet region	<ul style="list-style-type: none"> To know the adoption status production practice, profitability and constraints of mandarin 	Sylhet
396.	Benchmark study of transfer of agricultural technologies to farmers level for increasing farm productivity	<ul style="list-style-type: none"> To find out the existing production technologies practiced by the farmers in the regions and To estimate the cost and return from different fruits cultivation at farm level. 	Shariatpur (Damudda and Goshairhut upazilla) Barisal (Muladi and Babuganj)
397.	Intercropping of winter and summer vegetables in mango orchard	<ul style="list-style-type: none"> To find out the suitability of vegetables in mango orchard as intercrop and To evaluate the economic benefit of intercropping 	Jamalpur
398.	Evaluation of Multi-Storied cropping systems in mango orchard	<ul style="list-style-type: none"> To find out the sustainable land utilization system To maximize the economic benefits and To mitigate the malnutrition of rural people 	Ramghar and Jamalpur
399.	Adaptability of different shade tolerant crops under established fruit orchard	<ul style="list-style-type: none"> To find out suitable crops for growing under permanent fruit tree and To increase the farm income and year-round production 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
400.	Performance of different fruit under multi strata cropping system	<ul style="list-style-type: none"> To increase the farm income and Year-round production 	Gazipur
401.	Standardization of growth media for roof gardening of mango	<ul style="list-style-type: none"> To find out the optimum soil media for mango cultivation on roof and To plant and get higher yield from roof gardening 	Gazipur
402.	Standardization of growth media for roof gardening of guava	<ul style="list-style-type: none"> To find out the optimum soil media for guava cultivation on roof and To plant and get higher yield from roof gardening 	Gazipur and Jamalpur
403.	Standardization of growth media for roof gardening of ber	<ul style="list-style-type: none"> To find out the optimum soil media for ber cultivation on roof and To plant and get higher yield from roof gardening 	Gazipur
404.	Standardization of soil media for roof gardening of sweet orange	<ul style="list-style-type: none"> To standardize pot media for roof gardening of malta and To plant and get higher yield from roof gardening 	Gazipur
405.	Standardization of growth media for roof gardening of dragon fruit	<ul style="list-style-type: none"> To standardize soil media for dragon fruit cultivation on roof and To get higher yield 	Gazipur and Jamalpur
406.	Effect of different soilless media for dragon fruit production on the roof	<ul style="list-style-type: none"> To know the performance of dragon fruit under soilless media and To find out the best soilless media for dragon fruit production on the roof 	Gazipur
407.	Standardization of roof top garden media for quality fruit yield	<ul style="list-style-type: none"> To find out suitable media for roof top garden and To increase roof top garden fruit yield 	Pahartali
408.	Performance of BARI released jackfruit varieties in different agro-ecological zones of Bangladesh	<ul style="list-style-type: none"> To evaluate the performance of BARI released jackfruit varieties To disseminate BARI released jackfruit varieties and To establish mother plant of BARI released jackfruit varieties 	Gazipur and Khagrachari
409.	Screening of BARI released mango varieties against salinity tolerance	<ul style="list-style-type: none"> To find out superior mango variety for saline areas 	Satkhira Patuakhali Chattogram and Cox's Bazar
410.	Impact study on the influence of weather parameters on mango varieties in Bangladesh	<ul style="list-style-type: none"> To find out the performance of mango varieties in the different climatic conditions of Bangladesh and To investigate the impact of changing climate on mango production 	Gazipur Chapainawabganj Satkhira Patuakhali Khagrachari Moulvibazar

Sl. No.	Research Title	Major Objective (s)	Location (s)
411.	Adaptive trial of fruit bagging technology for safe mango production in the hilly areas of Bangladesh	<ul style="list-style-type: none"> To popularize the fruit bagging technology in the hill district To produce safe mango in the hills and To reduce pesticide application for mango production 	Banderban and Rangamati
412.	Adaptive trial on the hot water technology for reducing post harvest loss of mango in the hilly areas of Bangladesh	<ul style="list-style-type: none"> To popularize the Mango fruit in the hill district and To improve the livelihood of the hill people 	Banderban and Rangamati
413.	Adaptive trial of BARI released banana varieties	<ul style="list-style-type: none"> To observe the performance of BARI released banana varieties and To verify the adaptation ability of banana varieties <p>Location: Gazipur, Jamalpur, Narshindi, Cumilla, Jashore, Patuakhali, Cox's Bazar, Chattogram, Gopalganj, Rajshahi, Rangpur, Barishal, Rangamati, Khagrachari and Sylhet</p>	
414.	Performance trial of tissue culture sucker against conventional sucker on yield and quality of banana	<ul style="list-style-type: none"> To find out the effect of tissue culture and conventional sucker on yield and quality of banana <p>Location: Gazipur, Khagrachari and Rahmatpur, Barishal</p>	
415.	Adaptive trial of Fruit varieties in coastal, hilly and char areas	<ul style="list-style-type: none"> To verify the adaptation ability of mango varieties in the coastal, hilly and char areas and To get higher yield and quality fruits. Location: Gazipur, Jamalpur, Narshindi, Cumilla, Jashore, Patuakhali, Cox's Bazar, Chattogram, Gopalganj, Rajshahi, Rangpur, Barishal, Rangamati, Khagrachari and Sylhet 	
416.	Adaptive trial of dragon fruit cultivation in the rangamati hilly area	<ul style="list-style-type: none"> To popularize the dragon fruit in the Rangamati hill district and To improve the livelihood of the hill people of Rangamati 	Rangamati Hill Tract
417.	Perfromance of BARI released fruit varieties	<ul style="list-style-type: none"> To observe the performance of BARI released fruit varieties at cumilla region and To increase the yield and quality 	Cumilla
418.	Enrichment and maintenance of elite fruit tree repository	<ul style="list-style-type: none"> To conserve and maintain the improved varieties of fruits as well as the improved recommended varieties centrally in one site in a more secure repository for future use and proper maintenance 	Gazipur
419.	Enrichment and maintenance of elite fruit tree multiplication block	<ul style="list-style-type: none"> To supply true-to-type quality planting materials to the partner organizations as well as to the nursery associations for the establishment of FMTOs 	Burirhat, Jamalpur Akbarpur Hathazari, Jashore and all HRC Stations
420.	Mother orchard establishment of BARI released citrus fruit varieties	<ul style="list-style-type: none"> To supply true to type quality planting materials released varieties 	Jaintapur

Sl. No.	Research Title	Major Objective (s)	Location (s)
421.	Enrichment and maintenance of indigenous fruit germplasm centre	<ul style="list-style-type: none"> To conserve identified lines in the field gene bank and To select superior fruit varieties 	Debigonj
422.	Training on fruit production technology	<ul style="list-style-type: none"> To disseminate the technologies of fruit crops and To establish technology blocks of released varieties of fruits 	HRC Stations (20)
423.	Validation trial of BARI Released fruit varieties	<ul style="list-style-type: none"> To disseminate BARI released fruit varieties and To increase fruit yield <p>Location: Patuakhali, Barishal, Khulna, Satkhira, Noakhali and Bandarban</p>	
424.	Evaluation of jackfruit germplasm	<ul style="list-style-type: none"> To select superior lines for late season with higher yield and quality <p>Location: Gazipur, Pahartali, Jamalpur and Akbarpur</p>	
425.	Collection and evaluation of year-round jackfruit germplasm	<ul style="list-style-type: none"> To find out the superior off-season and year-round variety and To identify suitable germplasm for higher yield and quality <p>Location: Gazipur, Cumilla and Chapainawabganj</p>	
FLORICULTURE DIVISION			
426.	Collection, evaluation and maintenance of gladiolus	<ul style="list-style-type: none"> Finding out of germplasm in terms of yield and quality Maintaining the genetic purity and Developing new variety 	Gazipur
427.	Collection and maintenance of cactus and succulents	<ul style="list-style-type: none"> Finding out of germplasm in terms of yield and quality and Maintaining the genetic purity 	Gazipur and Jeshore
428.	Collection and maintenance of water lily flowers	<ul style="list-style-type: none"> To collect the different species of water lily flowers available in Bangladesh and To conserve the collected germplasm for future research 	Gazipur
429.	Performance study of bedding flowers	<ul style="list-style-type: none"> To study the performance of bedding flower and seed production 	Gazipur and Jeshore
430.	Hybridization of lilium	<ul style="list-style-type: none"> To develop new varieties of lilium 	Gazipur and Jeshore
431.	Induction of variability through gamma radiation in lily	<ul style="list-style-type: none"> To ascertain the appropriate variation caused by gamma radiation and To increase the yield of lily flower and bulb 	Gazipur and Jeshore
432.	Embryo culture of orchids	<ul style="list-style-type: none"> To develop new varieties 	Gazipur and Jeshore
433.	<i>In vitro</i> multiplication of gladiolus hybrid	<ul style="list-style-type: none"> To ensure the higher number of propagules of gladiolus hybrid within short period 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
434.	Response of <i>Sansevieria spp.</i> to rooting hormone in propagating substrates	<ul style="list-style-type: none"> To see the influences of rooting hormone on leaf cuttings of <i>Sansevieria</i> and To find out the appropriate substrate for <i>Sansevieria</i> propagation 	Gazipur
435.	Effect of bulb size and management practices for quality liliium bulb production	<ul style="list-style-type: none"> To produce quality flower 	Gazipur
436.	Bulb production of liliium influenced by bulbil size and varieties	<ul style="list-style-type: none"> To produce the quality flower year round 	Gazipur
437.	Production and quality of <i>Dracaena fragrans</i> influenced by different coloured shade nets	<ul style="list-style-type: none"> To standardize the appropriate shade net to produce quality <i>Dracaena</i> plants and cut foliage 	Gazipur
438.	Production and quality of <i>Cordyline spp.</i> influenced by different coloured shade nets	<ul style="list-style-type: none"> To standardize the appropriate shade net to produce quality <i>Cordyline</i> plants 	Gazipur
439.	Bulb and bulblet production of liliium influenced by planting materials and growing conditions	<ul style="list-style-type: none"> To standardize the suitable planting materials under optimum growing condition for quality bulb production 	Gazipur
440.	Effect of potting media on growth, yield and quality in aglaonema	<ul style="list-style-type: none"> To find out the suitable substrate (s) for <i>Aglaonema</i> production and To produce the quality foliage 	Gazipur
441.	Bulb production of liliium from bulblets influenced by growing media	<ul style="list-style-type: none"> Standardization of a suitable growing medium for liliium bulb production through bulblets 	Gazipur and Jashore
442.	Effect of pinching and boron on quality flower production of carnation	<ul style="list-style-type: none"> To standardize the pinching time and dose of boron for quality flower production of carnation 	Gazipur and Jashore
443.	Effect of different potting media on plant growth, spike yield and quality of spathoglottis orchid	<ul style="list-style-type: none"> To find out the suitable potting media for quality spathoglottis orchid production 	Gazipur and Jashore
444.	Study on the growth and survival rate of the different ornamental plants on wall mount pot with organic growth medium	<ul style="list-style-type: none"> To find out the performance of planting medium in vertical facades for growing ornamental plants and To find out fabricated box usability in terms of vertical facades/ wall for ornamental plants. 	Gazipur and Jashore
445.	Screening of selected tuberose genotypes	<ul style="list-style-type: none"> To find out saline tolerant Tuberose genotype (s) 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	against saline stress (pot culture)		
446.	Management of botrytis blight disease of liliom	<ul style="list-style-type: none"> To develop appropriate technology against blight disease management 	Gazipur
447.	Disease free gladiolus corm production from different generations of corms	<ul style="list-style-type: none"> To find out the corm generation level at which Fusarium wilt initiate 	Gazipur
448.	Hot-water treatment of gladiolus cormels for controlling corm-borne fungal diseases	<ul style="list-style-type: none"> To find out optimum temperature to treat gladiolus cormels to produce fungal diseases free corms 	Gazipur
449.	Bio-rational management of boll worm attacking rose	<ul style="list-style-type: none"> To develop an environment friendly management option for rose boll worm and To document the pest status of rose boll worm 	Gazipur
450.	Lilium bulb production from scale influenced by N and K	<ul style="list-style-type: none"> To standardize the optimum doses of N and K for quality bulb production from scale 	Gazipur
451.	Effects of combined application of nitrogen, phosphorus, potassium and sulphur on yield of gypsophila	<ul style="list-style-type: none"> To find out the suitable combination dose of N, P, K and S for maximization of gypsophila flower yield and To measure the nutrients uptake from the soil 	Gazipur
452.	Determining optimum storage temperature and duration for preservation of lilium flower	<ul style="list-style-type: none"> To find out the optimum temperature for preservation of lilium flower and To find out the storage duration for preservation of lilium flower 	Gazipur
453.	Effect of vase chemicals on post-harvest life of dendrobium orchids	<ul style="list-style-type: none"> To identify the optimum dose of vase chemicals to increase the vase life and quality of orchid flower 	Gazipur
454.	Effect of substrates on yield and quality of anthurium in soilless culture	<ul style="list-style-type: none"> To find out the suitable substrate for quality anthurium production 	Gazipur
455.	Adaptive trial of different varieties of gladiolus, tuberose, marigold and lilium at farmers field	<ul style="list-style-type: none"> To evaluate the performance of the varieties in farmer's field 	Gazipur
456.	Breeder seed/propagule production of flower crops	<ul style="list-style-type: none"> Producing breeder propagules of different flower crops for distribution among the growers and nurserymen and To maintain genetic purity 	Gazipur
457.	Training on flower technology	<ul style="list-style-type: none"> To train scientists, officers, SA, SAAO and farmers on flower production, seed/propagule production, hydroponic culture, post- harvest technologies 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		including the development of improved varieties	
TUBER CROPS RESEARCH CENTRE			
458.	Hybridization and Selection	<ul style="list-style-type: none"> To create variants for subsequent variety selection and To improve the genetic base of the parent population 	Gazipur and Debigonj
459.	Hybridization in potato (September 2019- June 2020)	<ul style="list-style-type: none"> To create variants for subsequent variety selection and To improve the genetic base of the parent population 	Gazipur and Debigonj
460.	Hybridization for Late Blight Resistance Potato Variety Development (S-I)	<ul style="list-style-type: none"> To create variants for subsequent variety selection and To improve the genetic base of the parent population 	Gazipur and Debigonj
461.	Hybridization for Heat tolerant Potato variety Development(S-II)	<ul style="list-style-type: none"> To create variants for subsequent variety selection and To improve the genetic base of the parent population 	Gazipur and Debigonj
462.	Hybridization for Salt tolerant Potato variety Development(S-III)	<ul style="list-style-type: none"> To create variants for subsequent variety selection and To improve the genetic base of the parent population 	Gazipur and Debigonj
463.	Hybridization for Virus tolerance Potato variety Development(S-IV)	<ul style="list-style-type: none"> To create variants for subsequent variety selection and To improve the genetic base of the parent population 	Gazipur and Debigonj
464.	Hybridization for Processing Potato variety Development(S-V)	<ul style="list-style-type: none"> To create variants for subsequent variety selection and To improve the genetic base of the parent population 	Gazipur and Debigonj
465.	Hybridization for Early Planting Potato Variety Development (S-VI)	<ul style="list-style-type: none"> To create variants for subsequent variety selection To improve the genetic base of the parent population 	Gazipur and Debigonj
466.	Production of Seedling Tubers of the Hybrid Populations ($F_1 C_0$)	<ul style="list-style-type: none"> Production of seedling tubers for evaluation and variety selection 	Debigonj and Gazipur
467.	Field Evaluation of Seedling tubers of Clonal Hybrid ($F_1 C_1$)	<ul style="list-style-type: none"> Selection of superior clone (s) 	Debigonj

Sl. No.	Research Title	Major Objective (s)	Location (s)
468.	Preliminary Observation Trial with Clonal Hybrids (F ₁ C ₂)	<ul style="list-style-type: none"> To select superior clones for subsequent program of variety development 	Debigonj
469.	Secondary Observation Trial with Clonal Hybrids (F ₁ C ₃)	<ul style="list-style-type: none"> To select superior genotype(s) for subsequent program of variety development 	Debigonj
470.	Seed Multiplication with Clonal Potato Hybrids (F ₁ C ₄)	<ul style="list-style-type: none"> To increase seed for fulfillment the requirement of research 	Debigonj
471.	Preliminary Yield Trial with Clonal Potato Hybrids (F ₁ C ₅)	<ul style="list-style-type: none"> To select superior genotype(s) for SYT 	Debigonj and Gazipur
472.	Secondary Yield Trial with Clonal Potato Hybrids (F ₁ C ₆)	<ul style="list-style-type: none"> To select superior genotype(s) for AYT 	Debigonj, Gazipur and Jamalpur
473.	Advanced Yield Trial with Clonal Potato Hybrids (F ₁ C ₇)	<ul style="list-style-type: none"> To select stable clones and finalize clones for RYT 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj
474.	Participatory Variety Selection of Advanced Clonal Potato Hybrids (F ₁ C ₇)	<ul style="list-style-type: none"> To select suitable clone (s) in collaboration with farmers and other stakeholders for releasing varieties 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj
475.	Regional Yield Trial with Clonal Potato Hybrids (F ₁ C ₈)	<ul style="list-style-type: none"> Selection of suitable varieties for release 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj
476.	Participatory Variety Selection of Regional Clonal Potato Hybrids	<ul style="list-style-type: none"> To select suitable clone (s) in collaboration with farmers and other stakeholders for releasing varieties 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj
477.	Secondary Yield Trial of Exotic Potato Varieties for Table, Export and Processing Purposes (2 nd Generation)	<ul style="list-style-type: none"> To select superior exotic variety in context of Bangladesh environment 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj
478.	Advanced Yield Trial of Exotic Potato Varieties for Table, Export and Processing Purposes	<ul style="list-style-type: none"> To select the superior stable varieties in context of Bangladesh 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj

Sl. No.	Research Title	Major Objective (s)	Location (s)
479.	Participatory Variety Selection of Advanced Exotic Potato Varieties for Table, Export and Processing Purposes	<ul style="list-style-type: none"> To select suitable Varieties (s) in collaboration with farmers and other stakeholders for releasing varieties 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj
480.	Regional Yield Trial of Exotic Potato Varieties for Table, Export and Processing Purposes	<ul style="list-style-type: none"> To select suitable varieties for release 	Bogura, Debigonj, Gazipur, Jamalpur, Jashore and Munshigonj
481.	Participatory Variety Selection of Exotic Potato Varieties for Table, Export and Processing Purposes	<ul style="list-style-type: none"> To select suitable varieties in collaboration with farmers and other organization 	Bogura, Debigonj, Gazipur, Jamalpur Jashore and Munshigonj
482.	Observation Trial with Clonal Potato Hybrids and Exotic Varieties for Early Heat Tolerant	<ul style="list-style-type: none"> To select the superior genotypes for early heat tolerant variety development 	Debigonj
483.	Screening of the Potato Variety for Export Potential	<ul style="list-style-type: none"> To select the superior variety(s)/genotype(s) suitable for Export 	Bogura, Gazipur, Jashore, Munshigonj Faridpur, and Patuakhali
484.	Multiplication of Biofortified CIP Germplasm	<ul style="list-style-type: none"> To show the performance of the biofortified clones and select promising clones 	Debigonj
485.	Morphological Characterization of Advanced Breeding Lines of Potato	<ul style="list-style-type: none"> To fulfill the DUS test requirement to characterize the advanced breeding lines and released varieties To develop photographic monograph with descriptors 	Gazipur and Debigonj
486.	Screening of Parental Lines for TPS Production under Extended Photoperiod	<ul style="list-style-type: none"> To identify the genotypes capable of producing flowers and berries under extended photoperiod 	Gazipur and Debigonj
487.	Selfing in diploid potato germplasms	<ul style="list-style-type: none"> To develop an inbred line of potato To develop hybrid potato at the diploid level and To improve germplasms of potato 	Gazipur and Debigonj
488.	Production of Seedling Tubers of the Selfed Populations ($F_1 S_0$)	<ul style="list-style-type: none"> Production of seedling tubers for evaluation and inbred line selection 	Gazipur
489.	Maintenance of Released Potato Varieties, Germplasm, Lines and TPS Parents	<ul style="list-style-type: none"> To maintain the released potato varieties, germplasm and lines for future breeding programme 	Debigonj

Sl. No.	Research Title	Major Objective (s)	Location (s)
490.	Seed Multiplication of Potato Breeding Materials	<ul style="list-style-type: none"> To increase seed for fulfillment the requirement of research 	Debigonj
491.	Multiplication, Purification and Maintenance of Indigenous Potato Variety	<ul style="list-style-type: none"> To improve the quality as well as maintain the indigenous potato varieties for future breeding programme 	Burirhat and Hathazari, Chattogram
492.	Hybridization of Sweet Potato by Polycrossing	<ul style="list-style-type: none"> To create variability and diversity over the existing genotypes of sweet potato 	Gazipur
493.	Secondary Yield Trial of CIP (Mozambique) Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones and To select dry fleshed and carotene containing sweet potato clones 	Gazipur
494.	Secondary Yield Trial of CIP Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones and To select dry fleshed and carotene containing sweet potato clones 	Gazipur
495.	Advanced Yield Trial of F ₁ C ₆ hybrid clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones and To select dry fleshed and carotene containing sweet potato clones 	Gazipur Jamalpur Pahartali, Bogura and Jashore
496.	Regional Yield Trial of Anthocyanin containing Sweet Potato	<ul style="list-style-type: none"> To select anthocyanin containing sweet potato as variety and To know the performance under different agro-ecological area of Bangladesh 	Gazipur Jamalpur Pahartali, Bogura and Jashore
497.	Regional Yield Trial of White Fleshed Sweet Potato	<ul style="list-style-type: none"> To select white flesh sweet potato as variety and To select dry fleshed and weevil tolerant sweet potato 	Gazipur Jamalpur Pahartali, Bogura and Jashore
498.	Regional Yield Trial of F1C7 Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding & early sweet potato clones and To select dry fleshed and carotene containing sweet potato clones 	Gazipur, Jamalpur, Pahartali, Bogura and Jashore
499.	Regional Yield Trial of F1C8 Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones and To select dry fleshed and carotene containing sweet potato clones 	Gazipur Jamalpur Pahartali, Bogura and Jashore
500.	Participatory Variety Selection of F1C7 Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> Selection of suitable varieties obtained from RYT in collaboration with farmers and other organizations and To know the farmers choice and opinion 	Jamalpur Pahartali and Bagura
501.	Participatory Variety Selection Trial of F1C8 Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> Selection of suitable varieties obtained from RYT in collaboration with farmers and other organizations and To know the farmers choice and opinion 	Jamalpur Pahartali and Bagura

Sl. No.	Research Title	Major Objective (s)	Location (s)
502.	Preliminary Yield Trial of Mukhikachu Lines (February to October)	<ul style="list-style-type: none"> To evaluate the Mukhikachu lines and To select high yielding Mukhikachu line(s) for utilization in next year of AYT 	Gazipur
503.	Regional Yield Trial of Mukhikachu Lines (February to October)	<ul style="list-style-type: none"> To select high yielding Mukhikachu line (s) for releasing variety 	Gazipur, Jamalpur Jashore and Bogura
504.	Advanced Yield Trial of Rhizome Producing Panikachu Lines (January to September)	<ul style="list-style-type: none"> To evaluate the selected lines To select high yielding rhizome producing Panikachu line(s) for utilization in next year RYT 	Gazipur Jamalpur Jashore and Bogura
505.	Advanced Yield Trial of Stolon Producing Panikachu Lines	<ul style="list-style-type: none"> To evaluate the selected lines and To select high yielding stolon producing Panikachu line(s) for utilization in next year RYT 	Gazipur Jamalpur Jashore and Bogura
506.	Observational Trial of Panchamukhi Kachu in Relation to Spacing	<ul style="list-style-type: none"> To select the best spacing for Panchamukhi Kachu production 	Gazipur
507.	Observational Trial of Ghataman Kachu in Relation to Spacing	<ul style="list-style-type: none"> To select the best spacing for Ghataman Kachu production 	Gazipur
508.	Maintenance of Aroids Germplasm	<ul style="list-style-type: none"> To collect the aroids germplasm from different regions of Bangladesh and abroad 	Gazipur
509.	Regional Yield Trial of Yam (<i>Dioscorea</i> spp.) Germplasm	<ul style="list-style-type: none"> To identify high yielding and commercially important genotype 	Gazipur Bogura Jessore
510.	Participatory Yield Trial of Yam (<i>Dioscorea</i> spp.) Germplasm	<ul style="list-style-type: none"> To select suitable germplasm in collaboration with farmers and other stakeholders for releasing varieties 	Gazipur
511.	Preliminary Yield Trail of Some Exotic Cassava (<i>Manihot esculenta</i>) Lines	<ul style="list-style-type: none"> To identify high yielding and commercially important genotype 	Gazipur
512.	Preliminary Yield Trail of Some Local Cassava (<i>Manihot esculenta</i>) lines	<ul style="list-style-type: none"> To identify high yielding and commercially important genotype 	Gazipur
513.	Production, Distribution and <i>In Vitro</i> Maintenance of Potato Varieties/Germplasm	<ul style="list-style-type: none"> To maintain the genetic purity of the varieties To increase the number of propagules and To conserve the genetic materials for future program. 	Gazipur (TC lab.) and Debigonj
514.	Production of Minituber (G ₀) of Popular BARI Released Potato Varieties at Net House and Green House Conditions and Tuberization Behavior Study at Green House	<ul style="list-style-type: none"> To produce G₀ generation seeds in net house and green house conditions from disease free plantlets. ii. To use the minituber for the production of Breeder's seed 	Gazipur (Green house and Net House)

Sl. No.	Research Title	Major Objective (s)	Location (s)
515.	Improvement of Indigenous Promising Potato Cultivars through Meristem Culture and Their Yield Performance Study with Traditional Cultivars.	<ul style="list-style-type: none"> To produce virus free plantlets through meristem culture and To see yield performance between the virus free cultivars and conventional cultivars 	Gazipur (TC lab.)
516.	Tissue Culture of Cassava (<i>Manihot Esculenta</i> Crantz) Germplasm	<ul style="list-style-type: none"> To identify high yielding and commercially important genotype To enrich the germplasm which can be used in breeding program and To see the regeneration efficiency 	TC lab, TCRC, Gazipur
517.	Standardization of <i>In Vitro</i> Protocol for Short, Medium and Long-Term Conservation in Potato	<ul style="list-style-type: none"> To conserve tuber crops for long time To conserve advanced breeding lines for future use 	TC lab, TCRC, Gazipur
518.	<i>In Vitro</i> Propagation of Stress Tolerant Potato Varieties and Standardization of Nutrient Film Technique Protocol for Quality Seed Production	<ul style="list-style-type: none"> To develop a new breeder seed production system in TCRC To produce high quality potato breeder seed year-round and To get clean and disease-free potato seed 	TC lab. and Greenhouse, TCRC, Gazipur
519.	Molecular Characterization and Fingerprinting of Popular Cultivated IPVs Potato Using SNP Marker	<ul style="list-style-type: none"> To study the genetic variation and diversity of popular potato cultivars (IPVs) and cloned varieties DNA fingerprinting and documentation Phylogenetic tree establishment among the varieties and To know the genetic linkage mapping among the varieties 	Gazipur (Molecular Biology lab.) and Molecular Biology Lab, (MSU, USA)
520.	Molecular Characterization and Fingerprinting of BARI Released cloned Potato Varieties Using SSR Marker	<ul style="list-style-type: none"> To study the genetic variation and diversity of cloned Potato varieties DNA fingerprinting and documentation Phylogenetic tree establishment among the varieties and To know the genetic linkage mapping among the varieties 	Molecular Biology lab. TCRC, BARI, Gazipur and Molecular Biology Lab, MSU, USA
521.	Molecular Characterization of BARI Released Sweet Potato Varieties Using SSR Marker	<ul style="list-style-type: none"> i.To characterize and identify the genetic variation of sweet potato varieties using SSR marker ii.To examine the level of genetic diversity within the released varieties 	Molecular Biology lab. TCRC, BARI, Gazipur
522.	Complete Chloroplast Genome Sequencing and QTL Analysis of Stress Tolerant Potato Varieties	<ul style="list-style-type: none"> i.To know the genetic makeup of the genotypes 	Molecular Biology lab. TCRC, BARI, Gazipur; BSPC,

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> ii.To know the genetic variation and phylogenetic relationship among the varieties iii.To identify the stress tolerant gene and genetic linkage mapping 	Debigonj and RARS, Rangpur
523.	Combining of PVY and PLRV Resistance Genes in Tetraploid Potato	<ul style="list-style-type: none"> i.To develop virus resistance potato variety ii.To improve germplasm of potato 	TCRC, Gazipur and RARS, Rangpur
524.	Characterization of R-genes for Late Blight Disease of Potato	<ul style="list-style-type: none"> i.To identify R-genes from TCRC released potato varieties ii.Varieties with R-genes will be used in the breeding program to pyramid R-genes for durable resistance for late blight iii.To characterize germplasm of potato 	TCRC, Gazipur and RARS, Rangpur
525.	Secondary Observation Trial of Combined PVY and PLRV Resistance Germplasm	<ul style="list-style-type: none"> i.To select superior genotype (s) for subsequent program of PVY and ii. PLRV resistance variety development iii.To improve germplasm of potato 	BSPC, Debigonj
526.	Secondary yield trial of anthocyanin rich potato germplasm	<ul style="list-style-type: none"> Detection of anthocyanin in potatoes and to develop anthocyanin rich variety 	TCRC, Gazipur and BSPC, Debigonj;
527.	Molecular detection of different strain of PVY and PLRV diseases in Bangladesh	<ul style="list-style-type: none"> To identify PVY and PLRV races in Bangladesh 	TCRC, Gazipur and RARS, Burirhat, Rangpur
528.	Screening of wild diploid potato genetic resources for combined resistance to late blight, scab and viruses	<ul style="list-style-type: none"> To identify diploid genotypes in Potatoes for future breeding to develop late blight, scab and virus resistant potato variety 	TCRC, Gazipur
529.	Determination of ploidy level of indigenous potato and sweet potato varieties/ germplasm	<ul style="list-style-type: none"> To check the ploidy level of indigenous potatoes and cloned sweet potato varieties 	Gazipur and BSPC, Debigonj
530.	Diploid production from potatoes of 4x-genotypes by anther culture	<ul style="list-style-type: none"> To develop diploid lines in potato 	Tissue culture Lab and Green house, Gazipur
531.	Determination of Ploidy Level of Indigenous Potato and Sweet Potato Varieties/Germplasm	<ul style="list-style-type: none"> To identify ploidy level of the indigenous potato and sweet potato and To improve the information of the indigenous potato and sweet potato germplasm for future breeding program 	Molecular lab, TCRC, Gazipur
532.	<i>In vitro</i> Regeneration of Sweet Potato (<i>Ipomoea batatas</i> L)	<ul style="list-style-type: none"> To develop an efficient plant regeneration protocol for genetic transformation of sweet potato in future 	Tissue culture lab, TCRC, BARI, Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
533.	Development of 3-R-Gene GM Potato Variety for Late Blight Resistant	<ul style="list-style-type: none"> To develop late blight resistant potato varieties through biotechnological approaches using a 3-R gene construct and To commercialize genetically modified LBR resistant potato varieties 	Tissue culture and Molecular biology Lab, TCRC, BARI, Gazipur and MSU, USA
534.	Collection, Isolation and PCR Based Detection of Genotypes and Races of <i>Phytophthora</i> in Bangladesh	<ul style="list-style-type: none"> Collection and identification of <i>Phytophthora</i> genotypes through molecular technique and PCR based detection of <i>Phytophthora</i> races in Bangladesh 	Molecular mycology lab, MSU, USA; Molecular Biology lab and Plant Pathology lab, TCRC, BARI, Gazipur
535.	Development of cost-effective nutrient solution for Aeroponic culture	<ul style="list-style-type: none"> Cost effective nutrient solution development for Aeroponic 	Greenhouse, TCRC, Gazipur
536.	Effect of growth hormones on tuber formation of potato under aeroponic culture	<ul style="list-style-type: none"> To evaluate the exogenous effects of gibberellin and abscisic acid in the formation of potato tuber. 	Green house, TCRC, Gazipur
537.	Production of Quality Potato Seeds	<ul style="list-style-type: none"> Ensuring the demand of quality seeds throughout the country and Producing breeder seed for BADC 	Gazipur and Debiganj
538.	Production and Preservation of Sweet Potato Vines	<ul style="list-style-type: none"> Ensuring the demand of quality seeds throughout the country Location: Gazipur, Jamalpur, Bogura, Jashore, Hathajari, Barisal, Debigang 	
539.	Production and Preservation of Aroids Seeds	<ul style="list-style-type: none"> Ensuring the demand of quality seeds throughout the country Location: Gazipur, Jamalpur, Bogura, Jashore, Hathajari, Barisal, Debigang 	
540.	Production, Distribution and <i>In Vitro</i> Maintenance of Potato Varieties/Germplasm	<ul style="list-style-type: none"> To maintain the genetic purity of the varieties To increase the number of propagules and To conserve the genetic materials for future program. 	TC lab, Gazipur and Debiganj
541.	Production of Minituber (G ₀) of Popular BARI Released Potato Varieties at Net House and Green House Conditions and Tubertization Behavior Study at Green House	<ul style="list-style-type: none"> To produce G₀ generation seeds in net house and green house conditions from disease free plantlets To increase the amount of nucleus seed and off- season multiplication To see the tuberization behavior of potato in green house and 	Greenhouse and Net House, Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To use the minituber for the production of Breeder's seed 	
542.	Improvement of Indigenous Promising Potato Cultivars through Meristem Culture and Their Yield Performance Study with Traditional Cultivars.	<ul style="list-style-type: none"> To produce virus free plantlets through meristem culture and To see yield performance between the virus free cultivars and conventional cultivars 	TC lab, Gazipur
543.	Effect of Planting Dates and Spacing on the Yield of Early Harvesting 'Baby' potato and Economics	<ul style="list-style-type: none"> To select the appropriate planting date for early harvesting potato tubers To find out the proper spacing for better yield of 'baby' potato tubers and To determine the economic returns on the then market value. 	Debiganj, Panchagarh.
544.	Bulking Behaviour of Promising Potato Varieties	<ul style="list-style-type: none"> To know the bulking behaviour of promising potato varieties/germplasm To identify early varieties/germplasm and To find out optimum time of harvesting for maximum production of large tubers required for processing. 	Gazipur
545.	Effect of different natural storage condition on keeping quality of potato at Munshigonj.	<ul style="list-style-type: none"> To find out suitable storage condition at farmers potato field at least three months. 	Munshigonj (TCRSC)
546.	Comparison between production system of farmers' and research practice in respect of yield and economic benefit of potato	<ul style="list-style-type: none"> To compare the yield between the farmers' practice and research practice and To find out the better economic output of potato production system. 	Munshigonj
547.	Effect of Biochar with Compost and Fertilizer Growth and Yield of Potato	<ul style="list-style-type: none"> To evaluate the effect of Biochar with Fertilizer, growth, and tuber yield of potato and To explore the effect of Biochar and Compost on soil properties and nutrients status 	Gazipur
548.	Sensory Evaluation of Sweet Potato Shoot as Leafy Vegetables	<ul style="list-style-type: none"> To evaluate the selected improve germplasm suitable for as a leafy vegetables. 	Gazipur
549.	Effect of Urea Super Granule (USG) on the Yield Performance of BARI Panikachu-1 (<i>Colocasia esculenta L.</i>)	<ul style="list-style-type: none"> To find out the efficiency of USG and compare the yield performance of Panikachu with prilled urea and To determine the optimum and economic dose of USG for Panikachu. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
550.	Effect of Spacing on the Yield of Mukhikachu	<ul style="list-style-type: none"> To Select the appropriate Spacing for maximum mukhikachu yield and To find out optimum land use in cultivating mukhikachu 	Gazipur and Bogra
551.	Screening of sweet potato varieties for organic cultivation system	<ul style="list-style-type: none"> To identify the superior sweet potato varieties under low input organic production system 	Gazipur
552.	Effect of botanical herbicides on majors weed species and yield of potato	<ul style="list-style-type: none"> To find out superior botanicals minimizing the impact of weed in organic field. 	Gazipur
553.	Efficiency of botanicals on virus disease management in organic potato.	<ul style="list-style-type: none"> To find out superior materials to reduce the virus infection in organic potato field. 	Gazipur
554.	Evaluation of Stolon Producing Taro Genotypes Under Low Input Organic Cultivation System	<ul style="list-style-type: none"> To select the superior stolon producing taro lines for organic cultivation 	Gazipur
555.	Effects of Different Registered Organic Fertilizers on the Yield and Yield Contributing Characters of Potato	<ul style="list-style-type: none"> To find out the efficiency of different organic fertilizers and To find out suitable organic fertilizer(s). 	Gazipur
556.	Effect of Foliar Application of Zinc and Manganese on the Yield and Quality of Potato (<i>Solanum tuberosum</i> L.)	<ul style="list-style-type: none"> To evaluate the response of potato to zinc and manganese application as foliar spray. To find out the suitable foliar dose of zinc and manganese for potato and To study the influence of zinc and manganese on the quality of potato through foliar application. 	Gazipur and Debiganj
557.	Integrated Nutrient Management for Potato-Aroids-T. aman Rice Cropping Pattern	<ul style="list-style-type: none"> To develop a suitable fertilizer package for the cropping pattern ii. To increase crop productivity and sustain soil health 	Gazipur and Bogra
558.	Determination of Fertilizer dose for Promising Released Panikachu Variety	<ul style="list-style-type: none"> To observe the response of panikachu to different nutrients To update and optimize the fertilizer of package panikachu matching the soil and agro climatic condition and To maximize yield and quality panikachu 	Gazipur
559.	Effect of Potassium Sulphate on the Yield and Quality of Potato Through Controlling Stem Canker and Scab Disease.	<ul style="list-style-type: none"> To evaluate the effect of potassium sulphate as a source of sulphur in controlling <i>Streptomyces scabies</i> in potato to find out the suitable dose and source of sulphur for maximizing the yield of potato 	Gazipur and Debiganj

Sl. No.	Research Title	Major Objective (s)	Location (s)
560.	Effect of zinc on biochemical parameters, processing quality and zinc bio-fortification in potato tuber	<ul style="list-style-type: none"> To increase zinc concentration in potato tuber as bio-fortification. To find out the suitable dose of zinc for potato and To study the influence of zinc on the quality of potato tuber. 	Gazipur and Debigonj
561.	Evaluation of different sources of urea and spacing on the yield and quality of Panikachu	<ul style="list-style-type: none"> To select appropriate form of urea-N to increase nitrogen use efficiency for low land taro and To find out suitable spacing for changing urea form. 	Gazipur
562.	Effect of irrigation on the growth, yield and quality of potato variety	<ul style="list-style-type: none"> To evaluate the influence of irrigation on the yield and quality of potato and To find out optimum time of irrigation for reducing scab disease of potato 	Debigonj
563.	Response of Potato to Phosphorous in Old Himalayan Piedmont Plain soil	<ul style="list-style-type: none"> To determine the optimum dose of phosphorus for maximizing the yield and quality of potato and To evaluate the effect of P fertilizer on P uptake, fertilizer P recovery (FPR) and applied P use efficiency (APUE) of potato. 	Debigonj
564.	Determination of Fertilizer dose for sweet potato vine production	<ul style="list-style-type: none"> To observe the response of sweet potato vine to different nutrients To determine the optimize fertilizer package of sweet potato vine matching the soil and agro climatic condition and To maximize the fresh yield of sweet potato vine. 	Gazipur and Bogura
565.	Assessment of atmospheric carbon absorption through potato	<ul style="list-style-type: none"> To find out suitable potato variety in respect of carbon absorption and To assess the total carbon absorption through potato cultivation in Bangladesh in climate change aspect and To estimate the organic carbon adding in soil through potato residues. 	Gazipur and Debigonj
566.	Survey and Monitoring of New Tuber Crops Diseases in Bangladesh	<ul style="list-style-type: none"> To identify the new disease with their causal organisms <p>Location: Gazipur, Munshiganj, Chittagong, Jamalpur, Jessore, Debigonj, BADC seed production block and farmers field, Rangpur, Bogura, Cumilla and other different locations</p>	
567.	Evaluation of Potato Varieties and Lines against Late Blight Disease by Detached Leaf Methods	<ul style="list-style-type: none"> To find out the resistance level of potato varieties and advance lines against late blight disease 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
568.	Screening of Selected Potato Varieties and Germplasm against Late Blight Disease	<ul style="list-style-type: none"> To explore the resistant varieties/ TPS Parents/ CIP germplasm 	Burirhat, Rangpur and Debiganj, Panchagarh
569.	Yield loss Assessment of late blight (Ib) Resistant Potato Variety/ Germplasm under Natural Inoculum Pressure	<ul style="list-style-type: none"> To evaluate the resistant ability of varieties / germplasm To assess the yield loss due to disease and To select optimum time of planting for avoiding late blight disease 	Burirhat, Rangpur and Debiganj, Panchagarh
570.	Effect of Different Fungicidal Combinations in Controlling Late Blight of Potato	<ul style="list-style-type: none"> To select effective combination (s) of fungicides for controlling late blight of potato 	Burirhat, Rangpur and Debiganj, Panchagarh
571.	Efficacy of Fungicides against Leaf Blight of Panikachu and Mukhikachu	<ul style="list-style-type: none"> To select effective fungicides against <i>Phytophthora</i> leaf blight and ii To reduce the yield due to the disease 	Gazipur
572.	Development of Cost-Effective Integrated Fertilizer Management Practice and Management of Soil Borne Diseases of Potato Utilizing Agricultural Waste Tobacco Dust	<ul style="list-style-type: none"> To develop cost-effective integrated fertilizer management practice utilizing agricultural waste tobacco dust and To manage soil borne disease 	Burirhat, Rangpur
573.	Effect of Different Organic Matter for Managing Soil Borne Diseases (Common Scab and Stem Canker & Black Scurf) of Potato	<ul style="list-style-type: none"> To select effective organic amendment(s) for potato cultivation 	Burirhat, Rangpur and Debiganj, Panchagarh
574.	Screening of Potato Varieties against Soil Borne Diseases (Common Scab, Stem Rot and Stem Canker & Black Scurf)	<ul style="list-style-type: none"> To study the tolerance level of BARI released potato varieties against soil borne disease (common scab, stem rot and stem canker and black scurf). 	Burirhat, Rangpur and Debiganj, Panchagarh
575.	Efficacy of Different Chemicals against Bacterial Wilt of Potato	<ul style="list-style-type: none"> To identify the effective chemicals against bacterial wilt and fungicides of potato 	Gazipur
576.	Standardization of Molecular Detection Procedure of <i>Ralstonia solanacearum</i> causing Brown Rot of Potato Tuber	<ul style="list-style-type: none"> PCR based detection of brown rot of tuber 	Gazipur
577.	Monitoring of Disease Status of Bari Released	<ul style="list-style-type: none"> To study the tolerance level of BARI released potato varieties against common scab disease 	Gazipur and Debiganj, Panchagarh

Sl. No.	Research Title	Major Objective (s)	Location (s)
	Potato Varieties against Common Scab		
578.	Evaluation of Potato Varieties/Germplasm against PLRV and PVY	<ul style="list-style-type: none"> To find out the virus disease resistant potato varieties/germplasm 	Gazipur
579.	Observational Trial of Sweet Potato Varieties/Germplasm against Virus Diseases	<ul style="list-style-type: none"> To identify the resistant or tolerant sources of germplasm 	Gazipur
580.	Detection of Potato Viruses (PLRV, PVY, PVX, PVM and PVS) in the Supplied Sample of Different Companies through DAS-ELISA	<ul style="list-style-type: none"> To identify the potato viruses (PLRV, PVY, PVX, PVM and PVS) from samples of different companies for enhancing virus free seed potato production 	Gazipur
581.	Monitoring of Different Released Potato Varieties against Post-Harvest Diseases	<ul style="list-style-type: none"> To find out the suitable varieties for long term storage under natural environmental condition 	Gazipur
582.	Development of Management Approach against Root Aphid (<i>Pemphigus</i> Sp.) attacking Potato	<ul style="list-style-type: none"> To find out the most effective management option for root aphid on potato and To know the damage severity of the pest 	Joypurhat
583.	Evaluation of Released Potato Varieties and Advanced Materials against Potato Cutworm (<i>AgrotisIpsilon</i>) in Field Condition	<ul style="list-style-type: none"> To evaluate BARI released potato varieties along with advanced lines against cut worm in the field 	Bogura
584.	Development of Effective Integrated Management Package against Sweet Potato Weevil in Farmer's Field	<ul style="list-style-type: none"> To develop eco-friendly, cost effective and compatible IPM measures for the management of sweet potato weevil 	Bogura
585.	Integrated Management of Cutworm (<i>Agrotisipsilon</i>) in Potato	<ul style="list-style-type: none"> To find out an effective management approach for potato cutworm 	Bogura
586.	Management of Potato Tuber Moth (PTM) in Storage Condition	<ul style="list-style-type: none"> To find out an effective management approach for potato tuber moth (PTM) in storage and To estimate the extent of damage by PTM 	Bogura
587.	Field Efficacy of Attract and Kill Method against Potato Tuber Moth in Field Condition	<ul style="list-style-type: none"> To know the effectiveness of attract and kill method against potato tuber moth in field To monitor of the population of PTM in the field condition and their extent of damage 	Bogura, Munshiganj and Debiganj

Sl. No.	Research Title	Major Objective (s)	Location (s)
588.	Survey and Monitoring of New Pest Arthropods Infesting Tuber Crops	<ul style="list-style-type: none"> • Identification of insect pests attacking tuber crops and • Determination of damage severity of insect pests Location: Bogura, Debiganj and Munshiganj, seed production blocks of BADC and farmer's field	
589.	Screening of Different Sweet Potato Varieties/Lines against Potato Weevil (<i>Cylasfromicarius</i> Fab.)	<ul style="list-style-type: none"> • To identify the suitable varieties/lines resistance/tolerant to sweet potato weevil infestation and • To determine the effects of sweet potato weevil infestation on the yield 	Bogura
590.	Survey, Monitoring and Documentation of Major Insect Pests of Mukhikachu	<ul style="list-style-type: none"> • Identification of insect pests attacking aroid and • Determination of damage severity of insect pests 	Bogura
591.	Studies on Succession of Insect-Mite Pests on Yam	<ul style="list-style-type: none"> • Identification of insect pests attacking yam and • Determination of damage severity of insect pests over time 	Bogura
592.	Studies on Succession of Insect-Mite Pests on Cassava	<ul style="list-style-type: none"> • Identification of insect pests attacking cassava and • Determination of damage severity of insect pests 	Bogura
593.	Studies on Storage Behavior of Potato Varieties/Germplasm under Natural Storage Conditions	<ul style="list-style-type: none"> • To assess the keeping quality of tubers, 	Gazipur
594.	Evaluation of Potato Varieties and Germplasm/Lines for Processing Qualities	<ul style="list-style-type: none"> • To select suitable varieties and germplasm lines for chips, French fries and Dried chips and • To select the optimum colour and texture of the chips and French-fries 	Gazipur
595.	Adaptive Trial with Newly Released Potato Varieties	<ul style="list-style-type: none"> • To popularize the newly released improved potato varieties. • To collect the feedback of the newly released varieties. Location: Barishal, Bhola, Borguna, Bogura, Chittagonj (Pahartoli& RARS), Chandpur, Coxesbazar, Cumilla, Dinajpur, Faridpur, Gibandha, Gopalganj, Gazipur, Jamalpur, Jashore, Jhenaidah, Khulna, Kishoregonj, Kushtia, Madaripur, Manikgonj, Munshiganj, Mymensing, Norshindi, Noakhali, Panchogor, Patuakhali, Rajshahi, Rangpur, Sherpur, Satkhira, Tangail and Thakurgoan (Four-Ten trials in each of the above districts)	
596.	Promotion and Dissemination of Newly Released Late Blight Resistant Potato Variety	<ul style="list-style-type: none"> • To popularize the newly released improved potato varieties • To collect the feedback of the newly released varieties and • To increase the production as well as income of the growers Location: Dinajpur, Rangpur, Bogura, Jamalpur, Rajshahi and Jashore Two to ten trials in each of the above districts	

Sl. No.	Research Title	Major Objective (s)	Location (s)
597.	Promotion and Dissemination of Newly Released Climate SMART (Heat and Salt tolerant) Potato Variety	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties To collect the feedback of the newly released varieties and. To increase the production as well as income of the growers. Location: Barishal, Patuakhali, Barguna, Khulna, Satkhira, Coxesbazar, and Jashore 20 trials in each of the above districts	
598.	Adaptive Trials with Sweet Potato Varieties	<ul style="list-style-type: none"> To popularize the newly released improved sweet potato varieties and To collect the feedback of the newly released varieties. Location: Narsingdi, Manikgong, Bogura, Gaibanda, Rangpur, Kurigram, Jamalpur, Sherpur, Kishoregong, Mymensingh, Jashore, Noakhali, Sylhet and Cumilla	
599.	Effect of Nutrient Management and Storage Methods on the Yield and Storability of Sweet Potato	<ul style="list-style-type: none"> To disseminate the developed fertilizer package for the yield and storability of sweet potato and To collect the feedback of the newly developed fertilizer package Location: Kushtia, Bogra, Gaibandha, Serpur	
600.	Adaptive Trials with Panikachu Varieties	<ul style="list-style-type: none"> To test the adaptability of the released varieties of Panikachu at farmers' level. Location: Narsingdi, Manikgong, Bogura, Joypurhat, Rangpur, Jamalpur, Sherpur, Kishoregong, Jashore, Kushtia, Noakhali, Habigonj, Sylhet, Moulvibazar and Barishal	
601.	Adaptive Trials with Mukhikachu Varieties	<ul style="list-style-type: none"> To test the adaptability of the released varieties of Mukhikachu at farmers' level. Location: Bogura, Gaibanda, Jamalpur, Sherpur, Kishoregong, Tangail, Mymensingh, Narsingdi, Jashore, Kushtia, Noakhali, Habigonj, Sylhet, Moulvibazar and Barishal	
602.	Hybridization of blackgram	<ul style="list-style-type: none"> Creation of genetic variation of desired characters and development of varieties having early and synchronous maturity, disease resistance and better yield component. 	Ishurdi
603.	Confirmation of blackgram F ₁ generation	<ul style="list-style-type: none"> Identifying confirmed cross materials and selection of desired genotypes with high yield potential, early maturing and resistant to insect and diseases. 	Ishurdi
604.	Growing and evaluation of blackgram F ₂ generation	<ul style="list-style-type: none"> Selection of desired segregating genotypes with high yield potential, early maturing and resistant to insect and diseases and attaining towards homozygosity. 	Ishurdi
605.	Growing and evaluation of blackgram F ₃ generation	<ul style="list-style-type: none"> Selection of desired segregating genotypes with high yield potential, early maturing and resistant to insect and diseases and attaining towards homozygosity. 	Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
606.	Growing and evaluation of blackgram F ₄ generation	<ul style="list-style-type: none"> Selection of desired segregating genotypes with high yield potential, early maturing and resistant to insect and diseases and attaining towards homozygosity. 	Ishurdi
607.	Preliminary yield trial of blackgram	<ul style="list-style-type: none"> Selection of stable genotypes for Regional Yield Trial which are prerequisite for variety development. 	Ishurdi, Gazipur Jamalpur Madaripur and Barind, Rajshahi
608.	Participatory varietal selection of blackgram	<ul style="list-style-type: none"> Selection of farmers preferred stable genotypes over different locations which are prerequisite for variety development. 	Ishurdi Gazipur Jamalpur Madaripur and Barind, Rajshahi
609.	Evaluation of genetic parameters of blackgram germplasm	<ul style="list-style-type: none"> To regenerate the existing collection of blackgram germplasm at PRC 	Ishurdi
610.	Hybridization of lentil	<ul style="list-style-type: none"> Creation of genetic variation for desired characters and development of varieties having early and synchronous maturity, disease resistance and better yield component 	Ishurdi
611.	Confirmation of lentil F ₁ generation	<ul style="list-style-type: none"> Identifying confirmed cross materials and selection of desired genotypes with high yield potential, early maturing and resistant to insect and disease 	Ishurdi
612.	Growing and evaluation of lentil F ₂ generation	<ul style="list-style-type: none"> Selection of desired segregating genotypes with high yield potential, early maturing and resistant to insect and diseases and attaining towards homozygosity. 	Ishurdi
613.	Growing and evaluation of lentil F ₃ generation	<ul style="list-style-type: none"> Selection of desired genotypes towards homozygosity 	Ishurdi
614.	Growing and evaluation of lentil F ₄ generation	<ul style="list-style-type: none"> Selection of desired genotypes and attaining towards homozygosity. 	Ishurdi
615.	Growing and evaluation of lentil F ₅ generation	<ul style="list-style-type: none"> Selection of desired genotypes and attaining towards homozygosity and also find out high yield potential, early matured, disease resistant or tolerant genotypes 	Ishurdi
616.	Observation trial of lentil	<ul style="list-style-type: none"> Selection of genotypes for Preliminary Yield Trial which are prerequisite for variety development. 	Ishurdi
617.	Preliminary yield trial of lentil	<ul style="list-style-type: none"> Selection of stable genotypes for Regional Yield Trial which are prerequisite for variety development. 	Ishurdi Gazipur Madaripur and Jashore.
618.	Regional yield trial of lentil	<ul style="list-style-type: none"> Selection of stable genotypes over different locations for PVS which are 	Ishurdi, Gazipur, Madaripur,

Sl. No.	Research Title	Major Objective (s)	Location (s)
		prerequisite for variety development	Jashore, Barisal and Jamalpur.
619.	Candidate variety demonstration of lentil	<ul style="list-style-type: none"> Evaluating performances of the promising advance lines in large plots and Selecting candidate varieties for on station testing. 	Ishurdi
620.	Participatory varietal selection of lentil	<ul style="list-style-type: none"> Selection of farmers preferred stable genotypes over different locations which are prerequisite for variety development. 	Pabna (OFRD) Jashore, Madaripur Gazipur and Barishal
621.	International trials of lentil (ICARDA)	<ul style="list-style-type: none"> Selection of disease resistant and adaptable genotypes in Bangladesh environment 	Ishurdi
622.	Screening of lentil germplasm under relay condition	<ul style="list-style-type: none"> To evaluate the performance and growth responses of lentil germplasm under relay condition 	Ishurdi
623.	Hybridization of chickpea	<ul style="list-style-type: none"> Creation of genetic variation for desired characters and for the development of high yielding, short duration, heat tolerant and BGM resistant chickpea varieties. 	Ishurdi
624.	Confirmation of chickpea F ₁ generation	<ul style="list-style-type: none"> Identifying confirmed cross materials and selection of desired genotypes with high yielding potential, short duration, heat tolerance and BGM resistance 	Ishurdi
625.	Growing and evaluation of chickpea F ₂ generation	<ul style="list-style-type: none"> Selection of desired segregating genotypes with high yield potential, early maturing and resistant to insect and diseases and attaining towards homozygosity 	Ishurdi
626.	Growing and evaluation of chickpea F ₃ generation	<ul style="list-style-type: none"> Selection of desired genotypes towards homozygosity 	Ishurdi
627.	Growing and evaluation of chickpea F ₄ generation	<ul style="list-style-type: none"> Selection of desired genotypes towards homozygosity 	Ishurdi
628.	Growing and evaluation of chickpea F ₅ generation	<ul style="list-style-type: none"> Selection of desired genotypes and attaining towards homozygosity and also find out high yield potential, early matured, disease resistant or tolerant genotypes 	Ishurdi
629.	Regional yield trial of chickpea	<ul style="list-style-type: none"> Selection of stable genotypes over different locations for PVS which are prerequisite for variety development 	Ishurdi Jessore Madaripur Gazipur, Barisal and Barind

Sl. No.	Research Title	Major Objective (s)	Location (s)
630.	Evaluation of chickpea exotic germplasm	<ul style="list-style-type: none"> • Selection of suitable genotypes for including variety development program of chickpea. 	Ishurdi
631.	Hybridization of fieldpea	<ul style="list-style-type: none"> • Creation of genetic variation for desired characters and for the development of high yielding, disease resistance, short duration variety with strong root system having bold seed. 	Ishurdi
632.	Confirmation of field pea F ₁ generation	<ul style="list-style-type: none"> • Identifying confirmed cross materials and selection of desired genotypes with high yield potential, short duration variety with strong root system having bold seed. 	Ishurdi
633.	Growing and evaluation of field pea F ₂ generation	<ul style="list-style-type: none"> • Selection of desired segregating genotypes with high yield potential, early maturing and resistant to insect and diseases and attaining towards homozygosity. 	Ishurdi
634.	Growing and evaluation of field pea F ₃ generation	<ul style="list-style-type: none"> • Selection of desired genotypes towards homozygosity. 	Ishurdi
635.	Growing and evaluation of field pea F ₄ generation	<ul style="list-style-type: none"> • Selection of desired genotypes and attaining towards homozygosity. 	Ishurdi
636.	Growing and evaluation of fieldpea F ₅ generation	<ul style="list-style-type: none"> • Selection of desired genotypes and attaining towards homozygosity and also find out high yield potential, early matured, disease resistant or tolerant genotypes. 	Ishurdi
637.	Participatory varietal selection of fieldpea	<ul style="list-style-type: none"> • Selection of farmers' preferred stable genotypes over different locations which are prerequisite for variety development. 	Pabna (OFRD) Jashore, Madaripur Gazipur and Barishal
638.	Evaluation of fieldpea genotypes	<ul style="list-style-type: none"> • Selection and evaluation of fieldpea genotypes collected from various sources 	Ishurdi, Gazipur and Madaripur
639.	Collection and evaluation of local grasspeagermplasm	<ul style="list-style-type: none"> • To enrich and widen the genetic base of the gene pool of grasspea and • To evaluate the collected germplasm 	Sathkhira Patuakhil Khulna, Narail, Gopalganj Pirojpur and Bagherhat
640.	Hybridization of grasspea	<ul style="list-style-type: none"> • Creation of genetic variation and development of high yielding grasspea genotypes having low toxin content, salinity tolerance and disease tolerance 	Ishurdi
641.	Confirmation of grasspea F ₁ generation	<ul style="list-style-type: none"> • Identifying confirmed cross materials and selection of desired genotypes with high yield potential, short duration variety with strong root system having bold seed. 	Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
642.	Growing and evaluation of grasspea F ₂ generation	<ul style="list-style-type: none"> • Selection of desired segregating genotypes with high yield potential, early maturing and resistant to insect and diseases and attaining towards homozygosity 	Ishurdi
643.	Evaluation of grass pea genotypes	<ul style="list-style-type: none"> • Selection and evaluation of stable early and low ODAP content genotypes for future breeding trials 	Ishurdi and Madaripur
644.	Regional yield trial of grasspea	<ul style="list-style-type: none"> • Selection of stable genotypes for PVS trial which are prerequisite for variety development and • To find out the yield performance of promising line at multi-locations of grass pea growing areas 	Ishurdi Gazipur Sathkhira and Madaripur
645.	Evaluation of grasspea exotic germplasm	<ul style="list-style-type: none"> • Selection of suitable genotypes for including variety development program of grass pea 	Ishurdi
646.	Collection and evaluation of cowpea germplasm	<ul style="list-style-type: none"> • To enrich and widen the genetic base of the gene pool of Cowpea and • To evaluate the collected germplasm 	Chattogram Patuakhali Bhola and Gazipur.
647.	Evaluation of cowpea genotypes	<ul style="list-style-type: none"> • To evaluate cowpea for yield and disease resistant 	Ishurdi (PRC lab.)
648.	Evaluation of Fababean (<i>Vicia faba</i> L.) exotic germplasms	<ul style="list-style-type: none"> • Selection of high yielding, disease resistant and adaptable genotypes in Bangladesh environment and • Adaptable desired lines would be identified. 	Gazipur and Ishurdi
649.	Collection and evaluation of sonamung germplasm	<ul style="list-style-type: none"> • To enrich and widen the genetic base of the gene pool of Sonamung and • To evaluate the collected germplasm 	Rangpur Mymensing Barishal, Jashore and Gazipur
650.	Hybridization of mungbean	<ul style="list-style-type: none"> • Creation of genetic variation for desired characters and development of varieties having early and synchronous maturity, disease resistance and better yield component. 	Ishurdi
651.	Confirmation of mungbean F ₁ generation	<ul style="list-style-type: none"> • Identifying confirmed cross material and selection of desired genotypes 	Ishurdi
652.	Growing and evaluation of mungbean F ₃ generation	<ul style="list-style-type: none"> • Selection of desired genotypes and attaining towards homozygosity. 	Ishurdi
653.	Growing and evaluation of mungbean F ₄ generation	<ul style="list-style-type: none"> • Selection of desired genotypes and attaining towards homozygosity. 	Ishurdi
654.	Growing and evaluation of mungbean F ₅ generation	<ul style="list-style-type: none"> • Selection of desired genotypes and attaining towards homozygosity. 	Ishurdi
655.	Observation Trial of Mungbean	<ul style="list-style-type: none"> • Selection of genotypes for Preliminary Yield Trial which are prerequisite for variety development. 	Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
656.	Interspecific hybridization involving <i>Vigna radiata</i> with <i>Vigna mungo</i>	<ul style="list-style-type: none"> To generate variability through interspecific hybridization and To develop uniform maturity and awn in pod surface for mungbean and early maturity for blackgram 	Ishurdi
657.	Confirmation of mungbean F ₁ generation developed by interspecific crosses	<ul style="list-style-type: none"> Identifying confirmed cross material and selection of desired genotypes 	Ishurdi
658.	Growing and evaluation of mungbean F ₂ generation developed by interspecific crosses	<ul style="list-style-type: none"> Selection of desired genotypes and attaining towards homozygosity. 	PRC, Ishurdi
659.	Participatory varietal selection of mungbean	<ul style="list-style-type: none"> Selection of farmers preferred stable genotypes over different locations which are prerequisite for variety development. 	Farmer's field under PRC, Ishurdi, RPRS, Madaripur and OFRD, Tangail
660.	Candidate variety demonstration of mungbean	<ul style="list-style-type: none"> Evaluating performances of the promising advance lines and Selecting candidate varieties for on station testing. 	PRC, Ishurdi
661.	International trials of mungbean (AVRDC)	<ul style="list-style-type: none"> Selection of disease resistant and adaptable genotypes in Bangladesh environment 	Gazipur, Ishurdi Barishal and Rangpur
662.	Genetic mapping of quantitative trait loci for seed weight of mungbean, <i>Vigna radiata</i> (L.) Wilczek	<ul style="list-style-type: none"> To identify quantitative trait loci controlling seed weight. 	Gazipur
663.	PCR-based detection and characterization of mungbean yellow mosaic virus in Bangladesh	<ul style="list-style-type: none"> To develop strategic for the diagnosis and characterization of mungbean yellow mosaic virus prevailing in Bangladesh. 	Gazipur (PRSS) and Biotechnology Division
664.	Screening of chickpea germplasm for Barind region under field condition	<ul style="list-style-type: none"> To screen out suitable chickpea genotypes for Barind region 	Godagari Rajshahi
665.	Screening of mungbean genotypes against waterlogging stress at vegetative growth stage on the basis of physiological parameters	<ul style="list-style-type: none"> To find out waterlog tolerant mungbean genotypes and to study the tolerance mechanism 	Gazipur
666.	Screening of blackgram germplasm for high barind tract and char land	<ul style="list-style-type: none"> To find out the suitable line for Barind tract Location: Godagari, Rajshahi, Shapahar, Naogaon and Jamalpur	

Sl. No.	Research Title	Major Objective (s)	Location (s)
667.	Screening of mungbean germplasm under NaCl salinity	<ul style="list-style-type: none"> To observed the effects of salt stress on germination and growth responses of mungbean germplasm 	Gazipur
668.	Study the heat tolerance in lentil under field conditions	<ul style="list-style-type: none"> To identify heat tolerant genotypes in available germplasm and their utilization breeding program. 	Gazipur Ishurdi and Jashore
669.	Performance of chickpea genotypes under optimum and late sown conditions	<ul style="list-style-type: none"> To identify terminal heat tolerant genotypes from local and exotic sources and their utilization in breeding program. 	Ishurdi and Jashore
670.	Evaluation of grass pea (Early and Low-B-ODAP) genotypes to salt stress conditions.	<ul style="list-style-type: none"> To study the saline tolerant grasspea line/germplasm and To adaptation of grasspea line in saline areas of Bangladesh. 	Gazipur and Ishurdi
671.	Effect of waterlogging at vegetative stage and yield of blackgram	<ul style="list-style-type: none"> To determine the effect of waterlogging on growth and yield of different blackgram genotypes 	Ishurdi
672.	Identification and quantification of aroma through morpho-physiological and chemicals analysis in mungbean	<ul style="list-style-type: none"> To select superior mungbean genotypes for higher yield & yield related traits and To identify mungbean genotype based on aroma compound 2-Acetyl-1-Pyrroline (2AP) <p>Location: Ishurdi, Gazipur, (Molecular laboratory in Plant Breeding Division, Toxicology lab; and Entomology division) Rangpur and Thakurgaon</p>	
673.	Screening of Grasspea Genotypes against water logging at Different Growth Stages	<ul style="list-style-type: none"> Selection and evaluation of grasspea genotypes based on water logging condition for grasspea variety development 	Madaripur (RPRS)
674.	Screening of grass pea germplasm under waterlogging stress at germination	<ul style="list-style-type: none"> To find out waterlogging tolerant genotypes for breeding purposes 	Ishwardi
675.	Study on agro-morphological and physiological traits of grass pea associated with waterlogging (WL) tolerance	<ul style="list-style-type: none"> Finding traits for possible use in indirect selection for WL tolerance 	Ishwardi
676.	Screening of blackgram germplasm under waterlogging stress at germination	<ul style="list-style-type: none"> To find out waterlogging tolerant genotypes for breeding purposes 	Ishwardi
677.	Performance of pea as affected by shoot picking for vegetable and grain production	<ul style="list-style-type: none"> To find out the effect of shoot picking for vegetable on growth, yield and economic return of field pea. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
678.	Effects of seeding time on growth and yield of a promising pea genotypes (BP001)	<ul style="list-style-type: none"> To find out the optimum sowing time for higher growth and yield of pea genotypes (BP001). 	Gazipur and Ishurdi
679.	Variation and correlation of morpho-agronomic traits and biochemical contents (protein and β -ODAP) in grass pea (<i>Lathyrussativus</i> , L) Landraces	<ul style="list-style-type: none"> To characterize grass pea landraces for morphological, agronomical and biochemical (β-ODAP and protein) traits and also to investigate the correlations between these traits 	Gazipur
680.	Detoxification of ODAP in grass pea by various food processing techniques	<ul style="list-style-type: none"> To evaluate the detoxification of ODAP in grass pea seed samples collected from different sites of Bangladesh 	Gazipur Ishurdi and Jashore
681.	Development of cropping pattern Blackgram/Grasspea-Mungbean-T.aman against existing cropping pattern Grasspea-T. aman in charland	<ul style="list-style-type: none"> To increase the cropping intensity producing three or more crops over the same piece of land round the year and To increase the productive efficiency of the individual crop. 	Chilmari, Kurigram.
682.	Effects of P nutrient management and conservation agriculture on crop productivity and soil fertility of lentil-mung bean-t.aman cropping sequence	<ul style="list-style-type: none"> To assess the effects of CA and P management practices on productivity and sustainability of lentil-mung bean-T. aman cropping sequence and To determine the actual P requirement for mustard under CA system 	Ishurdi
683.	Effects of seeding method and seed rate on yield and yield attributes of newly released variety of khesari	<ul style="list-style-type: none"> To determine the optimal plant population densities and sowing method for newly released Khesari variety (BARI Khesari-5) 	Ishurdi
684.	Effect of sowing date on growth and yield of newly released varieties of chickpea	<ul style="list-style-type: none"> To find out the optimum time of sowing for maximum grain yield of chickpea. To judge the suitable variety for growing under different environments and To assess the heat unit accumulated and heat use efficiency by different varieties under different environments. 	Ishurdi and Madaripur
685.	Effects of pulse-based cropping pattern on crop performance and soil health	<ul style="list-style-type: none"> To observe the crop performance and economics through pulse-based cropping pattern and To observe the change of soil nutrients status in long term basis. 	Ishurdi, Pabna and Madaripur
686.	Screening of pigeon pea genotypes for higher yield	<ul style="list-style-type: none"> To find out the suitable genotype for higher yield 	Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
687.	Growth and yield performance as influenced by nipping practices at different growth stages of chickpea	<ul style="list-style-type: none"> To find out the effect of nipping practices on growth, yield and yield of chickpea and To find out economic return of nipping practices. 	Jashore
688.	Effects of seeding method and seed rate on yield of fieldpea	<ul style="list-style-type: none"> To determine the optimal plant population densities for newly released field pea variety (BARI Motor 3) 	Gazipur and Ishurdi, Pabna
689.	Performance of short duration lentil genotypes in Saline Areas	<ul style="list-style-type: none"> To find out the suitable short duration lentil genotypes for better crop growth, adaptation and yield in the saline areas. 	Sathkhira
690.	Effect of silicon (Si) on arsenic uptake in lentil under arsenic prone areas soil	<ul style="list-style-type: none"> To find out the effect of Silicon (Si) on arsenic uptake in lentil under arsenic prone soil 	Gazipur and Ishurdi
691.	Adaptation of cowpea genotypes for Southern and Chittagong region	<ul style="list-style-type: none"> To find out the suitable genotypes for better adaptation and higher yield of cowpea. 	Barisal and Hathazari, Chattagram
692.	Application of growth regulator for synchronizing ripening of mungbean	<ul style="list-style-type: none"> To find out the suitable herbicide to synchronize ripening of mungbean. 	Gazipur and Ishurdi, Pabna
693.	Performance of fieldpea varieties/germplasm relay with T. Aman rice	<ul style="list-style-type: none"> To evaluate the performance and growth responses of fieldpea varieties/germplasm relaying with T. Aman rice 	Ishurdi
694.	Effects of rice husk ash on the performance of lentil and succeeding crop in rice-based cropping system	<ul style="list-style-type: none"> To investigate rice ash effects on soil properties and the performance of lentil and mungbean. 	Ishurdi
695.	Response of mungbean to post emergence herbicides	<ul style="list-style-type: none"> To determine the relative susceptibility of mungbean varieties to herbicide damage To evaluate weed control across varieties 	Ishurdi
696.	Performance of mixed cropping of grass pea and mustard under relay cropping system	<ul style="list-style-type: none"> To verify the suitable combination of grass pea as mixed crop with mustard under relay cropping system. 	Ishurdi
697.	Effect of shoot picking on growth and yield of grass pea	<ul style="list-style-type: none"> To find out the effect of shoot picking for vegetable on growth and yield of grass pea and To find out the economic return. 	Ishurdi
698.	Phenology, growth and yield of lentil as influenced by sowing time and seed rate	<ul style="list-style-type: none"> To evaluate the changes of phenology, growth and yield and To find out the optimum seed rate according to sowing time 	Ishurdi
699.	Efficacy of herbicides for controlling weeds in lentil field	<ul style="list-style-type: none"> To find out the suitable herbicide to control weed in lentil 	Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
700.	Effect of poultry manure with or without chemical fertilizer on the nodulation, yield and protein content of chickpea	<ul style="list-style-type: none"> To find out the effect of poultry manure with or without chemical fertilizer for chickpea production 	Ishurdi
701.	Integrated Nutrient Management for quality yield of field pea and maintenance soil health.	<ul style="list-style-type: none"> To study the effect of organic and inorganic fertilizers on the yield and quality of field pea and To reduce the use of inorganic fertilizers. 	Ishurdi
702.	Fertilizer management for rice with Grasspea relay cropping system.	<ul style="list-style-type: none"> To find out the fertilizer dose for rice with grass pea relay system. 	Ishurdi, Madaripur Gazipur and Gopalganj
703.	Effect of different level of phosphorus and their integration with manures on different crops in the lentil-mungbean-T. aman rice cropping pattern	<ul style="list-style-type: none"> To determine the optimum rates of P by inclusion of manures for lentil-mungbean-T. aman rice cropping system and To reduce the rate of P fertilizer application by inclusion of manure treatment 	Ishurdi
704.	Productivity of blackgram as influenced by integrated application of phosphorus and zinc under rainfed condition	<ul style="list-style-type: none"> To find out the optimum P and Zn fertilizer for yield and quality of black gram under rainfed condition and To study the effects of P and Zn application on yield and quality of black gram 	Ishurdi
705.	Effect of fertilizer management for sustaining soil fertility and yield performance of Lentil-Maize-T. aman rice cropping pattern	<ul style="list-style-type: none"> To find out the suitable fertilizer dose for lentil-maize-T. aman rice cropping pattern and To monitoring soil health as affected by fertilizer 	Ishurdi
706.	Prevalence of pathogens associated with foot and root rot disease of lentil	<ul style="list-style-type: none"> To investigate the involvement of different foot and root rot pathogens at early vegetative stage covering the wide agro-ecological area of Bangladesh. 	Ishurdi
707.	Screening of lentil lines against stemphylium blight under inoculated condition (3 rd year)	<ul style="list-style-type: none"> To find out the resistant sources against stemphylium blight of lentil. 	Ishurdi Madaripur and Jashore
708.	Study on present status of Pulses crop diseases in major pulse growing areas of Bangladesh	<ul style="list-style-type: none"> To assess the disease status of pulse crop due to climate change <p>Location: Pabna, Sirajgonj, Jashore, Barisal, Rajshahi, Patuakhali, Faridpur, Kurigram, Khulna and Madaripur</p>	
709.	Efficacy of Folicur and Nativo fungicides for controlling stemphylium blight of lentil	<ul style="list-style-type: none"> To find out the most effective dose and spray schedule of those fungicides in controlling Stemphylium blight of lentil. 	Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
710.	Efficacy of fungicides for controlling rust disease of lentil	<ul style="list-style-type: none"> To find out the most effective dose and spray schedule of those fungicides in controlling rust of lentil. 	Ishurdi
711.	Screening of mungbean lines resistant to mungbean yellow mosaic virus and CLS	<ul style="list-style-type: none"> To find out the resistant sources against MYMV and CLS of Mungbean. 	Ishurdi and Madaripur
712.	Screening of blackgram lines for resistance to yellow mosaic virus	<ul style="list-style-type: none"> To find out the resistant sources against YMV of Blackgram. 	Ishurdi Madaripur Gazipur and Jashore
713.	Response of promising mungbean varieties/ entries against flower thrips and pod borers	<ul style="list-style-type: none"> Finding out the more resistant mungbean varieties/entries against flower thrips and pod borers and Finding out the high yielding varieties/entries of mungbean. 	Ishurdi, Pabna
714.	Foliar application of commercially available macro and micro nutrients for the management of flower thrips and pod borers of mungbean	<ul style="list-style-type: none"> Developing environment friendly management of flower thrips and pod borers of mungbean with macro and micronutrients and Producing toxic insecticide free mungbean with higher yield. 	Ishurdi, Pabna and Barishal
715.	Development of biorational based management approach(s) for the controlling of flower thrips and pod borers in mungbean	<ul style="list-style-type: none"> Developing environment friendly management package (s) of major insect pests of mungbean and Producing toxic insecticide free mungbean and 	Ishurdi
716.	Population fluctuation of grasspea aphid, <i>Aphis craccivora</i> Koch in relation to sowing time and its effect on grain yield(on-going)	<ul style="list-style-type: none"> To know population fluctuation trend and to find out suitable time (s) of sowing to avoid aphid infestation and To assess yield loss due to aphid infestation 	Ishurdi, Pabna
717.	Effect of botanicals and synthetic chemicals on pea aphid, <i>Acyrtosiphon pisum</i> Harris in field pea	<ul style="list-style-type: none"> To find out effective management option of pea aphid in field pea 	Ishurdi, Pabna
718.	Design and development of four-wheel tractor operated bed planter cum seeder	<ul style="list-style-type: none"> To design four-wheel tractor operated bed planter cum seeder To fabricate the designed seeder and To evaluate the developed bed planter cum seeder for different crop establishment 	Ishurdi

Sl. No.	Research Title	Major Objective (s)	Location (s)
719.	Determination of some threshing parameters of BARI thresher for different pulse crops at various moisture content	<ul style="list-style-type: none"> To determine different operational parameters influencing the threshing of pulse crop harvested at various moisture content and To evaluate the technical and economic performance of the improved thresher 	Ishurdi
720.	Effect of Threshing Methods on seed damage and storage in pulses	<ul style="list-style-type: none"> To find out grain quality as well as mechanical damage under different threshing method and To determine seed quality during storage under different threshing method 	Ishurdi, Pabna
721.	Effect of row spacing on different lentil varieties under strip tillage system (on-going)	<ul style="list-style-type: none"> To find out performance of lentil on variable row spacing. 	Ishurdi, Pabna
722.	Agricultural Diversification and its Impact on Food Security in Some Selected Areas of Bangladesh.	<ul style="list-style-type: none"> To find out the agricultural diversification index To estimate the food security of the sample farm household To identify the contribution of pulses crop in the farm household food security and To determine the relationship between agricultural diversification and food security 	Patuakhali, Pabna and Jessore
OILSEED RESEARCH CENTRE			
Rapeseed and Mustard			
723.	Collection of rapeseed-mustard germplasm	<ul style="list-style-type: none"> To enrich and widen the genetic base of the gene pool of Oiliferous <i>Brassica rapa</i>, <i>B. juncea</i> and <i>B. napus</i> 	Gazipur
724.	Maintenance of germplasm of <i>Brassica rapa</i> , <i>Brassica juncea</i> and <i>Brassica napus</i>	<ul style="list-style-type: none"> To maintain the existing germplasm of oiliferous <i>Brassica rapa</i>, <i>B. juncea</i> and <i>B. napus</i> and To use in future breeding programme 	Gazipur
725.	Development of BC ₂ S ₆ in <i>Brassica rapa</i>	<ul style="list-style-type: none"> To create genetic variation. To incorporate short duration gene into high yielding varieties 	Gazipur
726.	Development of short duration inbred lines in <i>Brassica rapa</i> Advancing S ₅ to S ₆ generation	<ul style="list-style-type: none"> To develop short duration inbred lines having desirable agronomic traits 	Gazipur
727.	Hybridization in <i>Brassica rapa</i>	<ul style="list-style-type: none"> To incorporate earliness in <i>Brassica rapa</i> existing genotypes 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
728.	Evaluation of segregating generation of <i>Brassica rapa</i> (F ₄ , F ₅ and F ₆ generation)	<ul style="list-style-type: none"> To advance generation and To select short duration plants / families having desirable traits. 	Gazipur
729.	Growing of F ₃ generation derived from 16 genotypes of <i>B. rapa</i> into a single parent	<ul style="list-style-type: none"> To create genetic variability. To accumulate favorable genes from 16 parents into a single parent. 	Gazipur
730.	Observation Trial of <i>Brassica rapa</i> (Set-I & Set-II)	<ul style="list-style-type: none"> To develop short duration inbred lines having desirable agronomic traits 	Gazipur
731.	Observation Yield trial of <i>Brassica rapa</i> (Set-III & IV)	<ul style="list-style-type: none"> To select high yield potential lines with early maturity those can be grown in between T. aman and Boro rice. 	Jamalpur
732.	Preliminary Yield Trial of <i>Brassica rapa</i> (Set-I)	<ul style="list-style-type: none"> To advance generation. To select short duration plants/families having desirable traits. 	Gazipur, Ishurdi, Jashore Rahmathpur and Hathazari
733.	Preliminary Yield trial of <i>Brassica rapa</i> (Set-II)	<ul style="list-style-type: none"> To select high yield potential lines with early maturity those can be grown in between T. aman and Boro rice. 	Jamalpur and Gazipur
734.	Regional Yield Trial of <i>Brassica rapa</i> (Set-I)	<ul style="list-style-type: none"> To select short duration high yielding lines with better agronomic traits and wider adaptability and To develop short duration variety to fit in between T. aman and Boro rice. 	Gazipur Ishurdi Jamalpur Jessore Rahmatpur and Hathazari
735.	Regional Yield trial of <i>Brassica rapa</i> (Set-II)	<ul style="list-style-type: none"> To select high yield potential lines with early maturity those can be grown in between T.Aman and Boro rice 	Jamalpur Gazipur and Rajbari
736.	Hybridization in <i>B. napus</i>	<ul style="list-style-type: none"> To incorporate earliness in <i>B. napus</i> existing genotypes 	Jamalpur
737.	Growing of segregating population (F ₁ -F ₆) of <i>B. napus</i>	<ul style="list-style-type: none"> To obtain F₂-F₆ population and to advance F₂-F₆ generation 	Jamalpur
738.	Observation Yield trial of <i>B. napus</i> (Set-I and Set-II)	<ul style="list-style-type: none"> To select high yield potential lines with early maturity those can be grown in between T.Aman and Boro rice 	Jamalpur
739.	Preliminary Yield trial of <i>B. napus</i>	<ul style="list-style-type: none"> To select high yield potential lines with early maturity those can be grown in between T.Aman and Boro rice 	Jamalpur, Gazipur and Jessore
740.	Regional Yield trial of <i>B. napus</i>		Jamalpur, Gazipur Hathazari, Rahmatpur Jessore and Burirhat

Sl. No.	Research Title	Major Objective (s)	Location (s)
741.	Seed production of advance lines of Rapeseed	<ul style="list-style-type: none"> To increase the seed of advanced lines of rapeseed 	Jalalpur
742.	Evaluation of segregating generation of <i>Brassica juncea</i> (F ₄ , F ₆ generation - Set-I and Set-II)	<ul style="list-style-type: none"> To select plant families having desirable traits 	Gazipur
743.	Observation Trial of <i>Brassica juncea</i>	<ul style="list-style-type: none"> To select lines with high yield potential, better agronomic traits and wider adaptability and 	Gazipur
744.	Preliminary Yield Trial of <i>Brassica juncea</i>	<ul style="list-style-type: none"> To develop high yielding variety of <i>B. juncea</i> 	Gazipur Ishurdi Jessore and Hathazari
745.	Regional Yield Trial of <i>Brassica juncea</i>	<ul style="list-style-type: none"> To select lines with high yield potential, better agronomic traits and wider adaptability and To develop high yielding variety of <i>B. juncea</i>. 	Gazipur, Ishurdi Jamalpur, Jessore Rahmatpur and Hathazari
746.	Observation trial of entries developed from back cross generation of interspecific crosses among <i>B. carinata</i> , <i>B. rapa</i> and <i>B. napus</i>	<ul style="list-style-type: none"> Utilization of genetic variability of inter specific cross and To find out genotypes suitable for cultivation in Bangladesh. 	Gazipur
747.	Maintenance of CMS, restorer and maintainer lines of <i>Brassica napus</i>	<ul style="list-style-type: none"> To maintain the male sterile and maintainer lines and To use in future breeding programme. 	Gazipur
748.	Development of hybrid variety in rapeseed I. Development of short duration parental lines II. Development of test cross hybrids III. Evaluation of test cross hybrids	<ul style="list-style-type: none"> To develop short duration parental lines and To develop and evaluate test cross hybrids. 	Gazipur
749.	Identification of early restorer lines for hybrid production in <i>Brassica napus</i>	<ul style="list-style-type: none"> To develop suitable restorer for hybrid production 	Gazipur
750.	Maintenance of double low genotypes of <i>Brassica napus</i>	<ul style="list-style-type: none"> To maintain the double low genotypes. 	Gazipur
751.	Development of double low short duration genotypes through interspecific hybridization	<ul style="list-style-type: none"> To develop double low short duration genotypes through crossing between <i>Brassica rapa</i> and <i>Brassica napus</i>. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	I. Evaluation of F ₃ generation		
752.	Regional yield trial of double low genotypes of <i>Brassica napus</i>	<ul style="list-style-type: none"> To observe the performance of double low genotypes in Bangladesh condition. To determine the amount of erucic acid and glucosinolate of the genotypes 	Gazipur, Ishurdi and Jashore
753.	Germplasm collection, evaluation and maintenance	<ul style="list-style-type: none"> Water logging tolerant, short duration, disease, insect resistant and high yield potential lines will be selected 	Gazipur Jessore and Ishurdi
754.	Hybridization of sesame	<ul style="list-style-type: none"> Water logging tolerant, short duration, disease, insect resistant and high yield potential lines will be selected 	Gazipur
755.	Generation advance	<ul style="list-style-type: none"> Water logging tolerant, short duration, disease, insect resistant and high yield potential lines will be selected. 	Gazipur
756.	Experimental variety trials OT,	<ul style="list-style-type: none"> Water logging tolerant, short duration, disease, insect resistant and high yield potential lines will be selected. 	Gazipur
757.	Experimental variety trials PYT	<ul style="list-style-type: none"> Water logging tolerant, short duration, disease, insect resistant and high yield potential lines will be selected. 	Gazipur, Hathazari, Ishurdi and Jessore
758.	Experimental variety trials RYT	<ul style="list-style-type: none"> Water logging tolerant, short duration, disease, insect resistant and high yield potential lines will be selected. 	Gazipur, Jamalpur, Ishurdi Jessore Hathazari and Rahmatpur
759.	Development of water-logged tolerant variety of sesame	<ul style="list-style-type: none"> Water logged genotype will be selected 	Gazipur
Groundnut			
760.	Collection and evaluation of groundnut germplasm (New)	<ul style="list-style-type: none"> Enrich the gene pool and to use in future breeding program 	Gazipur and Jamalpur
761.	Maintenance of groundnut germplasm	<ul style="list-style-type: none"> To maintain the existing germplasm 	Gazipur and Jamalpur
762.	Creation of Genetic Variability in groundnut through Hybridization (New)	<ul style="list-style-type: none"> To create genetic variability and to develop short duration, high yielding variety 	Gazipur (Set-I) and Jamalpur (Set-II)
763.	Evaluation of segregating generation of groundnut (Growing F ₁ , F ₂ , F ₃ , F ₄ , F ₅ and F ₆)	<ul style="list-style-type: none"> Selection of short duration plants having desirable traits cluster bearing, large pod, disease tolerance etc 	Gazipur
764.	OT(Set I and Set II)	<ul style="list-style-type: none"> Selection of high yielding and early maturity lines having disease resistance with desirable agronomic traits 	Gazipur (Set- I) and Jamalpur (Set II)

Sl. No.	Research Title	Major Objective (s)	Location (s)
765.	PYT (Set I and Set II)	<ul style="list-style-type: none"> Selection of high yielding and early maturity lines having disease resistance with desirable agronomic traits Location : Gazipur, Ishurdi, and Burirhat (Set-II) Selection of high yielding and early maturity lines having disease resistance with desirable agronomic traits Location: Jamalpur, Gazipur and Burirhat RYT Set II- Gazipur Jamalpur Ishurdi Burirhat, Rahmatpur and Hathazari	
766.	and RYT(Set I and Set II) (6 exp. Will be conducted)		
767.	RYT with small kernel size groundnut	<ul style="list-style-type: none"> To select the early mature genotypes with small kernel size and high yield. 	Hazhazari Jamalpur and Burirhat
768.	RYT with medium large size kernel Groundnut	<ul style="list-style-type: none"> To select the early mature genotypes with large medium size kernel size and high yield. 	Hazhazari Jamalpur and Burirhat
769.	Seed Increase of Advanced lines of Groundnut and BARI released groundnut varieties (New)	<ul style="list-style-type: none"> To increase seeds for adaptive trial 	Gazipur Jamalpur and Burirhat
770.	Seed production of advanced lines of Groundnut (New)	<ul style="list-style-type: none"> To increase the seed of advanced lines of groundnut. 	Jamalpur
Soybean			
771.	Collection of soybean germplasm	<ul style="list-style-type: none"> To enrich the gene pool of soybean 	Gazipur
772.	Maintenance and evaluation of soybean germplasm	<ul style="list-style-type: none"> To maintain and evaluate the germplasm of soybean 	Gazipur
773.	Observation Trial of Soybean	<ul style="list-style-type: none"> To select high yielding genotypes for the next yield trial 	Gazipur
774.	Preliminary Yield Trial of Soybean	<ul style="list-style-type: none"> To select high yielding genotypes for the next yield trial 	Gazipur
775.	Regional Yield trial of Soybean	<ul style="list-style-type: none"> To select the high yielding genotypes 	Gazipur
Sunflower			
776.	Collection of soybean germplasm	<ul style="list-style-type: none"> To enrich the gene pool of soybean 	Gazipur
777.	Maintenance and evaluation of soybean germplasm	<ul style="list-style-type: none"> To maintain and evaluate the germplasm of soybean 	Gazipur
778.	Observation Trial of Soybean	<ul style="list-style-type: none"> To select high yielding genotypes for the next yield trial 	Gazipur
779.	Preliminary Yield Trial of Soybean	<ul style="list-style-type: none"> To select high yielding genotypes for the next yield trial 	Gazipur and Cumilla (Chadpur)
780.	Regional Yield trial of Soybean	<ul style="list-style-type: none"> To select the high yielding genotypes Location: Gazipur Noakhali /Iaxmipur Burirhat Cumilla (Chandpur) and Bhola	

Sl. No.	Research Title	Major Objective (s)	Location (s)
781.	Collection of sunflower germplasm	<ul style="list-style-type: none"> Enrich the gene pool and use in future breeding program 	Gazipur (Collect germplasm from abroad will be evaluated)
782.	Maintenance and evaluation of sunflower germplasms	<ul style="list-style-type: none"> To maintain, evaluate and select the germplasm for future breeding program 	Gazipur
783.	Development of dwarf inbred lines in sunflower (Advancing S ₅ to S ₆)	<ul style="list-style-type: none"> Advancing S₅ to S₆ generation 	Gazipur
784.	Identification of parental lines for development of hybrid sunflower variety.	<ul style="list-style-type: none"> To identify parental lines (CMS, restorer and maintainer) of sunflower 	Gazipur
785.	Development of synthetic and composite sunflower variety	<ul style="list-style-type: none"> To develop synthetic variety of sunflower To develop composite variety of sunflower 	Gazipur
786.	Creating new genetic variability in sunflower using induced mutation. (Evaluation of M4 mutants created by Gamma radiation)	<ul style="list-style-type: none"> To create genetic variability in sunflower for development of high yielding dwarf sunflower variety 	Gazipur
787.	Molecular characterization of sunflower dwarf mutants (i) by the expression analysis of <i>ent-kaurenoic acid oxidase1 (HaKAO1)</i> gene sequence (ii) by the expression analysis of <i>Fata</i> and <i>SAD</i> gene sequences	<ul style="list-style-type: none"> To analyze sunflower dwarf mutant molecularly 	Gazipur (Plant Breeding Lab and ORC field)
788.	Creation of sunflower mutant through EMS i) Evaluation of M3 mutants	<ul style="list-style-type: none"> To create & detect genetic variability in sunflower for development of dwarf high yielding sunflower variety 	Gazipur
789.	Estimation of maternal effect in sunflower	<ul style="list-style-type: none"> To estimate maternal effect in sunflower 	Gazipur
Linseed, Niger and Safflower			
790.	Maintenance and evaluation of Linseed, niger and safflower germplasm	<ul style="list-style-type: none"> Maintenance of linseed, niger & safflower germplasm for future breeding. 	Gazipur and Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
791.	Observation trial of niger and safflower	<ul style="list-style-type: none"> To develop high yielding variety of niger 	Gazipur Noakhali
792.	Regional yield trial of linseed	<ul style="list-style-type: none"> To develop high yielding variety of linseed 	Gazipur, Borguna Patuakhali and Noakhali
793.	Screening of linseed genotypes under different level of salinity	<ul style="list-style-type: none"> To select the salinity stress tolerant linseed genotypes 	Gazipur
794.	Adaptive trial of advanced lines of linseed	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of linseed in the farmers field 	Noakhali Chadpur Rangpur and Bhola
Crop and Soil management			
795.	Effect of sowing time based temperature variation on growth, seed yield and yield components of groundnut	<ul style="list-style-type: none"> To study the effects of high temperature on yield and yield components and To study whether the effects of high temperature are additive or multiplicative 	Gazipur and Jamalpur
796.	Effect of sowing time based temperature variation on growth, seed yield and yield components of sunflower	<ul style="list-style-type: none"> To study the effects of high temperature on yield and yield components of sunflower and To study whether the effects of temperature are additive or multiplicative. 	Gazipur
797.	Performance of selected genotypes of linseed under rainfed condition	<ul style="list-style-type: none"> To find out drought tolerant varieties / advanced lines / genotypes of linseed 	Gazipur
798.	Development of seed rate for Mustard-Boro mixed cropping system	<ul style="list-style-type: none"> To observe the optimum rate of seed for mustard-boro mixed cropping 	Cumilla
799.	Effect of irrigation on growth and yield of sunflower genotype	<ul style="list-style-type: none"> Effect of different irrigation regimes on the growth and yield of sunflower genotypes and To identify critical growth stages for irrigation of sunflower. 	Gazipur
800.	Effect of spacing on dwarf sunflower genotype	<ul style="list-style-type: none"> To determine optimum spacing for maximizing yield of sunflower genotype 	Gazipur and Jashore
801.	Determination of fertilizer doses for dwarf sunflower genotype	<ul style="list-style-type: none"> To determine optimum level of fertilizer for maximizing yield of sunflower genotype 	Gazipur and Jashore
802.	Effect of seed priming on the yield and seed quality of groundnut (<i>Arachis hypogaeal.</i>)	<ul style="list-style-type: none"> To find out the suitable seed priming method for better crop establishment and shortening the crop growth period in groundnut 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
803.	Effect of different storage conditions and containers on the seed quality of sunflower	<ul style="list-style-type: none"> To find out suitable seed containers for sunflower seed storage and To assess the quality of sunflower seed under different storage conditions 	Gazipur
804.	Screening of linseed genotypes against salinity	<ul style="list-style-type: none"> To select salt tolerant linseed genotypes 	Gazipur
805.	Intercropping of fenugreek with groundnut	<ul style="list-style-type: none"> To identify the suitable row arrangement of fenugreek with groundnut for higher productivity and profit 	Gazipur
806.	Performance of mustard, groundnut and sunflower varieties at char areas in Bangladesh	<ul style="list-style-type: none"> To find out the suitable of mustard, groundnut and sunflower varieties for char and haor areas. 	Bhuapur, Faridpur, Gopalganj
807.	Performance of mustard, groundnut and sunflower varieties at haor areas in Bangladesh	<ul style="list-style-type: none"> To find out the suitable of mustard, groundnut and sunflower varieties for char and haor areas 	Keshoregonj Sunamganj and Moulovibazar
808.	On-farm adaptive trial of mustard genotypes in Barind tract areas	<ul style="list-style-type: none"> To select suitable genotype of mustard for Barind areas 	Joypurhat and Rajshahi
809.	Performance of mustard varieties in hilly areas	<ul style="list-style-type: none"> To select suitable variety of mustard for hilly areas 	Dighinala Khagrachari and Raikhali
810.	Performance of sunflower (<i>Helianthus annuus</i> L.) and soybean genotypes in southern region of Bangladesh	<ul style="list-style-type: none"> To identify the suitable variety of sunflower and soybean in southern region 	Barisal, Patuakhali Pirojpur, Shatkhira and Noakhali
811.	Development of fertilizer management package for Mustard-Boro mixed cropping system	<ul style="list-style-type: none"> To observe the suitable dose of fertilizer in mustard-boro mixed cropping. 	Cumilla
812.	Development of cropping pattern for increasing cropping intensity and productivity	<ul style="list-style-type: none"> Increase cropping intensity and productivity through crop intensification in rice-based cropping system and Increase farmer's income, access to food and nutrition, employment opportunity and livelihood improvement. 	Gazipur
813.	Screening of sesame varieties/ advanced lines against drought stress	<ul style="list-style-type: none"> To find out drought tolerant varieties/ advanced lines /genotypes of sesame and To identify the resistant, moderate resistant and susceptible genotypes of sesame under stress condition 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
814.	Performance of selected genotypes of soybean under saline condition in saline area	<ul style="list-style-type: none"> To find out the better genotype tolerant to salinity 	Noakhali Benorpotha, Shatkhira
Disease Management			
815.	Survey of the pathogen (<i>Sclerotium rolfsii</i>) causing collar rot disease of sunflower from major sunflower growing areas in the coastal regions of Bangladesh	<ul style="list-style-type: none"> To know the incidence of collar rot of sunflower caused by <i>Sclerotium rolfsii</i> under prevailing weather condition and To understand the relationship between weather parameters and disease progress for better management of collar rot of sunflower. 	Barisal Potuakhali Kuakata and Khulna
816.	Collection, Isolation and morpho- physiological characterization of <i>Sclerotium rolfsii</i> isolates from sunflower in coastal area of Bangladesh	<ul style="list-style-type: none"> To characterize <i>Sclerotium rolfsii</i> isolates collect from different locations regarding morphological and physiological nature. 	Gazipur
817.	Screening of sunflower germplasm/ cultivars under inoculated condition against collar rot disease (<i>Sclerotium rolfsii</i>) in pot house	<ul style="list-style-type: none"> To find out the tolerant/ resistant lines of sunflower against <i>Sclerotium rolfsii</i>. 	Gazipur
818.	In vitro Study on the efficacy of different isolates of bio-control agent against <i>Sclerotium rolfsii</i> . causing collar rot of sunflower	<ul style="list-style-type: none"> To find out the suitable bio control agents to control <i>Sclerotium rolfsii</i> 	Gazipur
819.	Efficacy of fungicides against <i>Sclerotium rolfsii</i> causing collar rot of sunflower under In vitro condition	<ul style="list-style-type: none"> To find out suitable fungicides for effective control measure of collar rot of sunflower. 	Gazipur
Insect Pest Management			
820.	Survey and documentation of insect pests and natural enemies of sunflower	<ul style="list-style-type: none"> To record the insect pest's species of sunflower with their natural enemies To estimate the extent of damage by the major insect pests of sunflower. 	Gazipur Barisal and Patuakhali
821.	Development of integrated pest management technique against major insect pests of soybean	<ul style="list-style-type: none"> To avoid the indiscriminate use of insecticides for controlling of insect pest of soybean To determine the best management package for the control of insect pest of soybean 	Gazipur and Noakhali district

Sl. No.	Research Title	Major Objective (s)	Location (s)
822.	Study of the incidence and damage severity of flea beetle and pod borer in mustard	<ul style="list-style-type: none"> To record the incidence of flea beetle and pod borer in mustard To estimate damage severity of these pests in mustard varieties. 	Gazipur, Jessore and Jamalpur
823.	Screening of soybean entries against leaf roller and hairy caterpillar under natural field condition	<ul style="list-style-type: none"> To find out the tolerance entries against leaf roller and to record the incidence of the pests 	Gazipur
Post Harvest and Biochemical Studies			
824.	Physicochemical properties, oxidative stability and fatty acid composition of linseed and mustard oil blends	<ul style="list-style-type: none"> To enhance linseed oil oxidation stability through blending with mustard oils 	Gazipur (Central Laboratory)
825.	Proximate composition and food value of BARI released groundnut varieties	<ul style="list-style-type: none"> To determine the proximate composition in different groundnut varieties To determine the mineral constituents in different groundnut varieties 	Gazipur (Central Laboratory)
826.	Determination of oil content and fatty acid composition in different oilseed varieties and lines	<ul style="list-style-type: none"> To select lines/genotypes better oil quality with respect to oil content and fatty acids composition 	Gazipur (Central Laboratory)
Technology Transfer Programme			
827.	Training programmes for farmers, SA, SSA, SAAO, Officers and Scientists	<ul style="list-style-type: none"> Dissemination of modern varieties of oilseed crops and Block demonstration of the latest oilseed technologies Improvement of skill of the farmers and extension personnel 	Gazipur, Ishurdi Jamalpur, Jashore and Hathazari
828.	Field Day		Gazipur, Ishurdi Jamalpur, Jashore and Hathazari
829.	Block Demonstration		Gazipur, Ishurdi and Jamalpur,
Seed Production Programme			
830.	Breeders seed and TLS production of rapeseed-mustard	<ul style="list-style-type: none"> To produce breeders' seeds and TLS of modern varieties/advanced lines of Oilcrops. Location: Gazipur, Ishurdi, Jamalpur, Jashore, Hathazari, Rahamatpur, Pahartali, Bogra, Burirhut.	
831.	Breeder and TLS production of groundnut	<ul style="list-style-type: none"> To supply seed to BADC, research divisions and other research organizations, NGOs, farmers etc. Location: Gazipur, Ishurdi, Jamalpur, Kishoregonj, Jashore, Burirhat, Noakhali and Hathazari.	

Sl. No.	Research Title	Major Objective (s)	Location (s)
832.	Breeder seed and TLS production of sesame, sunflower and soybean	<ul style="list-style-type: none"> To supply seed to BADC, research divisions and other research organizations, NGOs, farmers etc. Location: Gazipur, Ishurdi, Jamalpur, Jashore, Hathazari, Burirhat, Rahmatpur, Debigonj, Pabna, Chadpur, Bhola, Noakhali and Laxmipur.	
833.	Breeder seed and TLS production of minor oilseeds	<ul style="list-style-type: none"> To supply seed to BADC, research divisions and other research organizations, NGOs, farmers etc. 	Gazipur, Burirhat Noakhali and Rangpur
SPICES RESEARCH CENTRE			
Varietal Improvement			
834.	Characterization of onion lines using molecular markers	<ul style="list-style-type: none"> To develop a DNA fingerprint of BARI released varieties 	Bogura (SRC) Gazipur (RSRC)
835.	Improvement of poly crossed onion population through mass selection	<ul style="list-style-type: none"> Accumulation of desired genes from different poly crossed lines to develop a single population with broad genetic base with improved yield and quality 	Gazipur
836.	Pungency Assessment of BARI released onion varieties	<ul style="list-style-type: none"> Estimation of Cultivar differences for pungency 	Gazipur
837.	Development of CMS and maintainer line (s) of Chilli	<ul style="list-style-type: none"> To introgress CMS genes in the cultivated well adapted varieties of Chilli for the development of CMS Male sterile (A) and Maintainer (B) line (s) 	Bogura
838.	Collection and Evaluation of Chilli Germplasm	<ul style="list-style-type: none"> To collect chilli germplasm from Faridpur region of Bangladesh To select kharip chilli germplasm (s) and To select suitable chilli germplasm for release as region specific variety 	Bogura
839.	Advanced yield trial of chilli	<ul style="list-style-type: none"> To evaluate chilli germplasm s in large plots To identify suitable genotypes for RYT 	Bogura
840.	Screening of chilli genotype for summer season	<ul style="list-style-type: none"> To screen chilli genotype for summer season To increase the chilli yield 	Bogura
841.	Morphological and molecular characterization of chilli genotypes with special reference to pungency related genes	<ul style="list-style-type: none"> To find out the diversity within and among species using morphological and molecular markers (SSRs) To characterize selected chilli genotypes with respect to pungency related genes 	Gazipur
842.	Regional yield trail of naga chili	<ul style="list-style-type: none"> To study the regional adaptability and To select promising naga chili germplasm for releasing variety Location: Jaintapur Akhorpu Norsingdhi, Bogura, Magura and Lalmonirhat	

Sl. No.	Research Title	Major Objective (s)	Location (s)
843.	Evaluation of exotic ginger lines	<ul style="list-style-type: none"> To study the performance of different ginger germplasm and To select the promising one 	Gazipur
844.	Regional yield trial of coriander genotype (s) for leaf production	<ul style="list-style-type: none"> To evaluate coriander germplasm s in different regions and To identify suitable genotypes to release as variety 	Bogura Lalmonirhat (RSRC) Gazipur, Magura (SRSC) Faridpur
845.	Collection, conservation and characterization of small and large cardamom germplasm	<ul style="list-style-type: none"> To collect small and large cardamom germplasm and To study the morpho-physiological behavior of small and large cardamom 	Bogura Jaintapur, Sylhet (CRS)
846.	Collection, evaluation and conservation of aromatic and medicinal spices	<ul style="list-style-type: none"> To collect some spices germplasm and other crops having medicinal properties and To study the morpho-physiological behavior of spices and other crops 	Bogura
847.	Collection and evaluation of indigenous spices crop under Sylhet region	<ul style="list-style-type: none"> Collection of indigenous spices germplasm to enrich gene pool. 	Jaintapur, Sylhet
Stress Breeding			
848.	Screening of black cumin germplasm for salinity tolerance	<ul style="list-style-type: none"> To evaluate the performance of black cumin under different salinity level 	Magura (RSRC)
Cultural Management			
849.	Effect of different PGR and transplanting time on quality and yield of onion	<ul style="list-style-type: none"> To minimize bolting problem of onion production and To increase yield and bulb quality of onion. 	Faridpur (SRSC)
850.	Development of a Power Tiller operated planter for Garlic	<ul style="list-style-type: none"> To modify the seed metering mechanism of existing BARI seeder machine To test the performance of seeder for planting of garlic clove and To evaluate technical and economic performance of garlic planter in comparison of traditional systems 	Bogura
851.	Effect of different rhizome size for ginger seedling production under pro-tray technique	<ul style="list-style-type: none"> To evaluate the performance of different rhizome size for raising ginger seedling under pro-tray technique and To ensure sustainable ginger production under adverse climatic condition. 	Bogura
852.	Effect of different growth media for ginger seedling production under pro-tray technique	<ul style="list-style-type: none"> To evaluate the performance of different growth media for raising ginger seedling under pro-tray technique and To ensure sustainable ginger production under adverse climatic condition. 	Bogura

Sl. No.	Research Title	Major Objective (s)	Location (s)
853.	Effect of ginger cultivation as influenced by planting date	<ul style="list-style-type: none"> To find out the suitable planting date for kharif-I season 	Lalmonirhat
854.	Effect of shade level on growth and yield of aromatic ginger (akangi)	<ul style="list-style-type: none"> To know the optimum light intensity level for higher yield of aromatic ginger (Akangi) 	Magura
855.	Effect of different media to enhance rooting of black pepper in nursery	<ul style="list-style-type: none"> To select suitable potting media for quality planting materials production 	Jaintapur, Sylhet
856.	Effect of different technique to produce planting materials of black pepper	<ul style="list-style-type: none"> To ensure high production of planting material 	Jaintapur, Sylhet
Soil and Water Management			
857.	Effect of soil moisture regime and nutrient management on seed yield of onion	<ul style="list-style-type: none"> To assess growth, yield and quality seed production of onion under varying levels of soil moisture and nutrient management an To determine the nutrient uptake, nutrient balance sheet and water use efficiency of onion under varying soil moisture levels and nutrient management 	Gazipur
858.	Effect of nitrogen and irrigation on yield and keeping quality of onion bulb production	<ul style="list-style-type: none"> To assess yield and quality bulb production of onion under different levels of irrigation and nitrogen To determine the nutrient uptake, nutrient balance sheet of onion under irrigation and nitrogen and To determine the water use efficiency for onion cultivation. 	Magura
859.	Optimization of Irrigation System for Onion Yield	<ul style="list-style-type: none"> To maximize water use efficiency and To find out the best irrigation system for onion production 	
860.	Effect of Lime on the growth and yield of Naga Chilli	<ul style="list-style-type: none"> To find out the optimum dose of lime for naga chilli 	Jaintapur, Sylhet
861.	Determination of P, K and S for yield maximization of black cumin	<ul style="list-style-type: none"> To develop a suitable P, K and S package for satisfactory production of black cumin and To determine the nutrient balance sheet of black cumin cultivation. 	RSRC, Gazipur
862.	Effect of nitrogen, phosphorus, potassium and sulphur on the growth and yield of fennel	<ul style="list-style-type: none"> To develop a suitable nutrient recommendation package for satisfactory production of fennel and To determine the nutrient balance sheet of fennel cultivation 	Gazipur
863.	Effect of NPK on the Growth and Yield of Black Pepper	<ul style="list-style-type: none"> To find out the optimum dose of NPK for higher growth and yield of Black pepper 	Jaintapur

Sl. No.	Research Title	Major Objective (s)	Location (s)
864.	Effect of nutrient management on fruit yield and quality of plum	<ul style="list-style-type: none"> To develop a suitable nutrient management package for maximizing fruit yield of plum To improve shelf life of fruit for fresh consumption 	Gazipur
865.	Effect of nutrient management on leaf yield of bay leaf	<ul style="list-style-type: none"> To develop a suitable nutrient management package for maximizing leaf yield of bay leaf 	Gazipur
Insect and Disease Management			
866.	Integrated management for fusarium basal rot of onion	<ul style="list-style-type: none"> To know the appropriate management practices for controlling fusarium basal rot of onion 	Magura
867.	Fungicidal management of leaf spot disease of ginger	<ul style="list-style-type: none"> To find out the effective fungicide(s) in controlling leaf spot disease of ginger 	Bogura
868.	Survey and identification of different diseases of spices crop	<ul style="list-style-type: none"> To identify new diseases as well as existing diseases of spices and To isolate pathogens of spice diseases. 	Bogura
Post-Harvest Technology			
869.	Studies on the processing and preservation of onion paste	<ul style="list-style-type: none"> To prepare onion paste from fresh onion To study the effects of different types of preservatives (in different concentration and combination of potassium metabisulphite and sodium benzoate) on the keeping quality of the pastes To study the effects of packaging materials (Foil pack, glass container and plastic bottle) on the keeping quality of the above spices To study the effects of storage conditions (ambient and refrigerated temperature) on the keeping quality of onion paste. 	Bogura
870.	Studies on the processing and preservation of garlic paste	<ul style="list-style-type: none"> To prepare garlic paste from fresh garlic To study storage stability and determine organoleptic acceptability of developed products and To minimize the post- harvest losses and optimize process parameter to obtain high quality process products from garlic 	Bogura
871.	Studies on quality of developed ginger-garlic mix paste during storage	<ul style="list-style-type: none"> To prepare ginger-garlic mix paste from fresh ginger and garlic To study storage stability and determine organoleptic acceptability of developed products To minimize the post- harvest losses and optimize process parameter to obtain 	Bogura

Sl. No.	Research Title	Major Objective (s)	Location (s)
		high quality process products from ginger and garlic	
872.	Study on dehydrated ginger powder and its post dehydration physico-chemical studies (with peeling and without peeling)	<ul style="list-style-type: none"> To prepare ginger powder with peeling and without peeling from fresh ginger To study storage stability and determine organoleptic acceptability of developed products and To minimize the post- harvest losses and optimize process parameter to obtain high quality process products from ginger 	Bogura
873.	Formulation of different processed products from Plum	<ul style="list-style-type: none"> To prepare jam, morobba, bar and candy from plum To study storage stability and determine organoleptic acceptability of developed products and To minimize the postharvest losses and optimize process parameter to obtain high quality process products from plum 	Bogura
Socio- Economic Study			
874.	Studies on Post-Harvest Losses of Onion and Factors Affecting for Such Losses in Selected Areas in Bangladesh	<ul style="list-style-type: none"> To estimate the physical and financial losses of onion at farm to retail level To identify the factors responsible for post-harvest losses of onion and To identify the points of remedial intervention to reduce the post-harvest losses. 	Rajshahi Pabna and Rajbari
875.	Assessment of onion production trend in onion growing area of Bangladesh through Remote Sensing technique	<ul style="list-style-type: none"> To estimate the onion acreage in the study area To estimate the onion production trends in the study area and To validate the accuracy of remote sensing derived results with the field 	Bogura
Technology Validations and Transfer			
876.	On-farm trial of winter onion varieties in char land	<ul style="list-style-type: none"> To evaluate the performance of onion varieties at different char land To popularize onion variety at different char lands among the farmers and To promote their adoption 	Shariakandi Bogura Gaibandha Atgharia, Pabna, Sirajgang Faridpur and Gazipur (OFRD)
877.	Performance of BARI released chilli varieties in char land of Jamalpur	<ul style="list-style-type: none"> To popularize BARI released high yielding chilli varieties at char land and To study the adaptability of BARI released chilli varieties at farmers' level 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
878.	On farm adaptability trial of released chilli varieties in saline areas	<ul style="list-style-type: none"> To find out the suitable chilli varieties for saline areas and To increase the chilli production and productivity in saline areas 	Magura
879.	On farm adaptability trial of released chilli varieties in char land areas	<ul style="list-style-type: none"> To find out the suitable chilli varieties for char land areas and To increase the chilli production and productivity in char areas 	Bogura
PLANT GENETIC RESOURCES CENTRE			
EXPLORATION AND COLLECTION OF PGR			
880.	EXPLORATION AND COLLECTION OF PLANT GENETIC RESOURCES	<ul style="list-style-type: none"> TO ENHANCE DIVERSITY OF COLLECTION TO PROTECT THE TRADITIONAL CROPS AND THEIR VARIETIES 	PGRC, Gazipur
881.	COLLECTION OF geographical indications (GI' S), LANDRACES AND WILD RELATIVES OF BARI MANDATED CROPS	<ul style="list-style-type: none"> To collect and characterize of Geographical Indications (GI's), landraces 	Gazipur
882.	Participatory Rural Appraisal (PRA)	<ul style="list-style-type: none"> To tapping the knowledge of local inhabitants to document Geographical Indication crops and To identify cultivated crops that have specific qualities linked to the place where they are produced 	Gazipur
Germplasm Characterization and Evaluation			
883.	Characterization of GI and Landraces of Brinjal germplasm	<ul style="list-style-type: none"> To explore the genetic diversity of brinjal germplasm 	Gazipur
884.	Characterization of Mung bean germplasm	<ul style="list-style-type: none"> To identify GI's accession and To document the accession 	Gazipur
885.	Characterization of GI and Landraces cucumber germplasm	<ul style="list-style-type: none"> To explore the genetic diversity of cucumber germplasm and To identify the accession 	Gazipur
886.	Characterization of Ash gourd germplasm	<ul style="list-style-type: none"> To identify every accession of the collection of Ash gourd germplasms and To explore genetic diversity of Ash gourd collection 	Gazipur
887.	Characterization of Yard long bean germplasm	<ul style="list-style-type: none"> To identify every accession of the collection of yard long bean and To explore genetic diversity of yard long bean collection 	Gazipur
888.	Characterization of Sesame germplasm	<ul style="list-style-type: none"> To study the genetic diversity of Sesame germplasm and To identify salient features that distinguish germplasm from one another 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
889.	Characterization of Bottle gourd germplasm	<ul style="list-style-type: none"> To study the genetic diversity in bottle gourd germplasm and To identify accession having useful traits 	Gazipur
890.	Characterization of Hyacinth bean germplasm	<ul style="list-style-type: none"> To explore the genetic diversity of hyacinth bean germplasm and To identify the accessions having useful traits 	Gazipur
891.	Characterization of Black gram germplasm	<ul style="list-style-type: none"> To study the genetic diversity in black gram germplasm and To identify accession and Documentation of the accession 	Gazipur
892.	Characterization of amaranth germplasm	<ul style="list-style-type: none"> To study the genetic diversity in red amaranth germplasm 	Gazipur
893.	Characterization of GI and Landraces of Jackfruit	<ul style="list-style-type: none"> To characterize jackfruit germplasm <i>in situ and</i> To document origin linked specific quality, attributes or a reputation that are identifiable to the consumers 	Gazipur
894.	Characterization of GI and Landraces of Guava	<ul style="list-style-type: none"> To characterize guava germplasm <i>in situ and</i> To document origin linked specific quality, attributes or a reputation that are identifiable to the consumers 	Gazipur
895.	Identification of Climate Smart PGR (CSP)	<ul style="list-style-type: none"> To explore climate smart PGR of mustard, mung bean and maize 	Gazipur
Germplasm Evaluation			
896.	Molecular characterization of GI and Landraces Brinjal germplasm	<ul style="list-style-type: none"> To establish Intellectual Property Right To identify duplicate accessions and To estimate genetic diversity 	Gazipur
897.	Molecular characterization of GI and Landraces Mustard germplasm	<ul style="list-style-type: none"> To establish IPR To identify duplicate accessions and To estimate genetic diversity 	Gazipur
898.	Molecular characterization of GI and Landraces Chilli germplasm	<ul style="list-style-type: none"> To establish IPR To identify duplicate accessions and To estimate genetic diversity 	Gazipur
Germplasm Conservation, Monitoring, Regeneration and Utilization			
899.	Conservation, Regeneration and Utilization	<ul style="list-style-type: none"> To retain viability of germplasm of different crop for longer period and for future use 	Gazipur
900.	Conservation of Germplasm in Active and Base Collection	<ul style="list-style-type: none"> To retain viability of germplasm of different crop for longer period and for future use. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
901.	Monitoring of Germplasm in Active and Base collection	<ul style="list-style-type: none"> To check the viability and quantity of conserved seedgene bank and To monitor the germplasm/accession for future use 	Gazipur
902.	Distribution of germplasm	<ul style="list-style-type: none"> To exploit the germplasm for crop improvement To restore diversity lost on farms and in natural habitat and To conduct other researches 	Gazipur
903.	Regeneration of different crops	<ul style="list-style-type: none"> To study the variability ofgermplasm To identify salient features that distinguish germplasm from one another and To regenerate the original sample and conserved accession. 	Gazipur
904.	Conservation of Germplasm at the Field Genebank	<ul style="list-style-type: none"> To maintain germplasm at the field genebank and To identify salient features that distinguish germplasm from one another 	Gazipur
PGR Collection and Conservation Through Biotechnology			
905.	<i>In vitro</i> Collection of PGR	<ul style="list-style-type: none"> To collect immature plant /seed/fruit/shoot/any tissue from field 	Gazipur
906.	<i>In vitro</i> conservation and cryo-preservation of vegetatively propagated crops	<ul style="list-style-type: none"> To conserve the vegetatively propagated crops for <i>in vitro</i> condition 	Gazipur
907.	<i>In vitro</i> bulblet formation of garlic from root tip for short-term storage of germplasm	<ul style="list-style-type: none"> To fine tune the embryogenesis protocol for root explants for regeneration and somatic embryogenesis potentiality and To develop an effective and applicable protocol for the short-term synthetic seed storage of garlic. 	Gazipur
908.	Micro-rhizomes production for <i>in vitro</i> short-term storage of ginger germplasm	<ul style="list-style-type: none"> To optimize the methods for development of micro rhizome for synthetic seeds. 	Gazipur
909.	Somatic embryogenesis of turmeric for short-term storage of germplasm	<ul style="list-style-type: none"> To finetune the embryogenesis protocol for regeneration and somatic embryogenesis potentiality and to develop an effective and To develop applicable protocol for the short-term synthetic seed storage of turmeric. 	Gazipur
910.	Synthetic (encapsulated) seed production of potato for short-term storage of germplasm	<ul style="list-style-type: none"> To develop protocol of Synthetic seed production of potato 	Gazipur
911.	Synthetic (encapsulated) seed production of mint for short-term storage of germplasm	<ul style="list-style-type: none"> To develop standard protocol of Synthetic seed production of mint 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
Pre-breeding work of PGR			
912.	Intra and Interspecific crossing of Brinjal for new trait discover	<ul style="list-style-type: none"> To discover new trait for future use to address the climate change 	Gazipur
913.	Intra and Interspecific crossing of Okra for new trait discover	<ul style="list-style-type: none"> To discover new trait for future use to address the climate change 	Gazipur
Documentation of PGR			
914.	Development of database software for Germplasm Documentation	<ul style="list-style-type: none"> To develop a menu-based data management program in MS Access To document information of germplasm electronically 	Gazipur
915.	Use of mobile Apps for Passport data collection	<ul style="list-style-type: none"> To developed BARI-PGRC mobile apps for passport data collection To trouble shoot noise during data collection 	PGRC, Gazipur
PLANT BREEDING DIVISION			
Maize Improvement			
916.	Maintenance and seed increase of promising inbred lines of maize (9 Sets)	<ul style="list-style-type: none"> To maintain, seed increase and enrich genetic resources of local maize germplasm 	Gazipur
917.	Maintenance and characterization of exotic and locally developed maize inbred lines (3 sets)	<ul style="list-style-type: none"> To characterize, maintain and evaluation of newly developed inbred lines 	Gazipur
918.	Development of base population in maize	<ul style="list-style-type: none"> To develop source population for the production of desirable elite/superior inbred lines locally 	Gazipur
919.	Advancing S ₀ to S ₁ generation of field corn (1 set)	<ul style="list-style-type: none"> To extract elite/superior inbred lines locally 	Gazipur and Dinajpur (BWMRI)
920.	Advancing S ₂ to S ₃ generation of waxy maize (2 sets)	<ul style="list-style-type: none"> To extract elite/superior inbred lines of waxy maize locally for hybrid development. 	Gazipur
921.	Advancing S ₃ to S ₄ generation of field corn (1 Set)	<ul style="list-style-type: none"> To extract superior inbred lines locally 	Gazipur
922.	Advancing S ₄ to S ₅ generation of sweet corn (2 Sets)	<ul style="list-style-type: none"> To extract superior inbred lines locally 	Gazipur
923.	Advancing S ₅ to S ₆ generation of field corn and baby corn (3 sets)	<ul style="list-style-type: none"> To extract superior inbred lines locally 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
924.	Advancing S ₆ to S ₇ generation of field corn, pop corn and sweet corn (8 Sets)	<ul style="list-style-type: none"> To extract superior inbred lines locally 	Gazipur
925.	Evaluation of inbred lines of field corn through line × tester method	<ul style="list-style-type: none"> To test the GCA of the inbred lines and SCA of crosses and selection of desirable best cross(es) and To find out heterotic patterns and heterotic partners of inbred lines. 	Gazipur
926.	Study on combining ability in maize at different locations (2 sets)	<ul style="list-style-type: none"> To study general combining ability (gca) of parents, specific combining ability (sca) effects of the crosses and To estimate standard heterosis and selection of better cross (es) 	Gazipur Jashore Dinajpur Barishal Jamalpur and Rangpur
927.	Evaluation of selected single cross hybrids of field corn, baby corn and pop corn (5 Sets)	<ul style="list-style-type: none"> To test the performance of locally developed single cross hybrids at different agro ecological regions and select widely adapted one (s) 	Gazipur
928.	Evaluation of single cross field corn hybrids at different location (3 sets)	<ul style="list-style-type: none"> To test the performance of locally developed single cross hybrids at different locations in Bangladesh and select widely adapted hybrids 	Gazipur Jashore Dinajpur and Barishal
929.	Evaluation of promising field corn and baby corn hybrids at different agro-ecological regions (2 sets)	<ul style="list-style-type: none"> To test the performance of locally developed single cross hybrids at different agro-ecological zones in Bangladesh and select widely adapted hybrids 	Gazipur Jashore Dinajpur and Rangpur
930.	Evaluation of promising hybrids of field corn at different location	<ul style="list-style-type: none"> To observe the performance of promising hybrids at different location and select better one (s) 	Gazipur Jashore, Dinajpur Jamalpur and Chattogram
931.	Large plot observation trial of maize at different agro-ecological regions	<ul style="list-style-type: none"> To observe the performance of locally developed hybrids in large plot 	Gazipur, Jashore Dinajpur Jamalpur and Chattogram
932.	Development of single cross maize hybrids through line×tester method in isolation (2 sets)	<ul style="list-style-type: none"> To produce test cross hybrids for evaluation of inbred lines and To find out heterotic patterns and heterotic partners of inbred lines. 	Bogura and Narshingdi
933.	Production of single cross field corn hybrids through diallel mating design	<ul style="list-style-type: none"> To produce test cross hybrids for evaluation of inbred lines and To find out heterotic patterns and heterotis patterns of inbred lines 	Gazipur
934.	Seed production of selected single cross hybrids of short statured, lodging tolerant, heat tolerant, excess soil	<ul style="list-style-type: none"> To increase hybrid seeds of selected promising hybrids for their testing in multilocation trial 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	moisture and saline tolerant field corn and baby corn (4 Sets)		
935.	Seed production of promising maize hybrids	<ul style="list-style-type: none"> To increase hybrid seeds of last year and previously selected crosses in each set and To observe the performance of the hybrids in different locations. 	Bogura Narshingdi Sherpur and Dinajpur
936.	Maintenance and seed increase of the parental lines of BARI maize hybrids	<ul style="list-style-type: none"> To maintain purity of the parental lines and hybrids and To produce and increase of pure seeds of the parental lines of BARI maize hybrids for future use 	Gazipur
937.	Seed production of parental lines of BARI maize hybrids	<ul style="list-style-type: none"> To produce breeder seed of the parental lines for further use and To distribute the increased seed to BADC and other private agencies. <p>Location: Bogura, Thakurgaon, Cumilla, Sherpur, Gazipur, Jamalpur Dinajpu, Rangpur, Kishoregonj and Madaripur</p>	
938.	Seed production of parental lines of selected promising maize hybrids	<ul style="list-style-type: none"> To increase F₁ seeds of the promising hybrids <p>Location: Bogura, Narshingd, Cumilla, Sherpur and Dinajpur</p>	
939.	Seed production of BARI hybrid maize	<ul style="list-style-type: none"> To increase the hybrid seeds stock of the promising BARI maize hybrids for demonstration and distribution. <p>Location: Debigonj, Jamalpur, Jashore, Rangpur; Gazipur and Dinajpur</p>	
940.	Maintenance and seed production of BARI composite maize varieties	<ul style="list-style-type: none"> To supply breeder's seed to BADC and other organization To maintain the purity of the popular composite varieties and To supply seed directly to farmers. <p>Location: Sherpur; Gazipur; Faridpur; Pabna and Chattogram</p>	
941.	Comparative study on oxidative stress tolerance mechanism in maize (C ₄) and barley (C ₃) under drought condition	<ul style="list-style-type: none"> To better understanding the comparative stress tolerance mechanism in C₄ and C₃ under drought condition underlying stress tolerant mechanism in maize under salinity and drought stress. 	Gazipur
942.	Comparative yield trial of BARI released and imported maize hybrids at different locations	<ul style="list-style-type: none"> To observe the performance of imported and local maize hybrids and select better one (s) and To share the information of the better performing hybrids to the farmers. 	Gazipur Jamalpur Rangpur Dinajpur and Moulvibazar
943.	Adaptive trial of BARI maize hybrids in charland of Bogura	<ul style="list-style-type: none"> To observe the performance of BARI maize varieties in charland of Bogura and To popularize BARI maize varieties /hybrids to the farmers in Bogura. 	Bogura

Sl. No.	Research Title	Major Objective (s)	Location (s)
944.	Adaptive trial of BARI maize hybrids in Cumilla region	<ul style="list-style-type: none"> To observe the performance of BARI maize varieties in Cumilla region and To popularize BARI maize varieties /hybrids to the farmers in Cumilla. 	Cumilla
945.	Adaptive trial of BARI maize hybrids in Pabna	<ul style="list-style-type: none"> To observe the performance of BARI maize varieties in Pabna and To popularize BARI maize varieties /hybrids to the farmers in Pabna. 	Pabna
946.	Adaptive trial of BARI maize hybrids in charland of Dinajpur	<ul style="list-style-type: none"> To observe the performance of BARI maize varieties in charland of Dinajpur To popularize BARI maize varieties /hybrids to the farmers in Dinajpur. 	Dinajpur
947.	Field days on the performance of BARI maize hybrids	<ul style="list-style-type: none"> To popularize BARI maize hybrids among the farmers and private agencies. 	Kishoreganj Thakurgaon and Dinajpur
Barley, Millets and Sorghum Improvement			
948.	Hybridization of barley	<ul style="list-style-type: none"> To incorporate early, dwarfness and hull-less traits in high yielding varieties and advance lines of barley. 	Gazipur
949.	Confirmation of F ₁ generation of barley (3 sets)	<ul style="list-style-type: none"> To confirm the F₁'s 	Gazipur
950.	Performance of F ₆ generations of barley	<ul style="list-style-type: none"> To advance the generations and To select individual plant and families on the basis of desirable traits. 	Gazipur
951.	Evaluation of barley germplasm for early and high yield	<ul style="list-style-type: none"> i) To test the performance of the selected genotypes. ii) Identifying early maturing and high yielding barley progenies. 	Gazipur
952.	Preliminary yield trial of hull-less barley	<ul style="list-style-type: none"> To select better performing hull-less barley lines 	Gazipur Jamalpur and Rangpur
953.	International hull-less barley yield trial	<ul style="list-style-type: none"> To test the performance of exotic barley lines in Bangladesh condition 	Gazipur
954.	International barley observation nurseries-high input	<ul style="list-style-type: none"> To test the performance of exotic barley lines in Bangladesh condition 	Gazipur
955.	Global spring barley yield trial for low input condition	<ul style="list-style-type: none"> To test exotic barley lines in Bangladesh condition. 	Gazipur
956.	Evaluation of foxtail millet germplasm	<ul style="list-style-type: none"> To select high yielding genotypes based on yield and yield contributing characters 	Gazipur
957.	Large plot yield trial of finger millets	<ul style="list-style-type: none"> To select better performing finger millets line 	Gazipur Jamalpur and Rangpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
958.	Advanced yield trial of pearl millet germplasm	<ul style="list-style-type: none"> To evaluate the performance of the selected genotypes for future breeding program 	Gazipur Jamalpur and Rangpur
959.	Multilocation trial of selected ICRISAT sorghum lines	<ul style="list-style-type: none"> To test the performance of sorghum variety/germplasm and select suitable better performing one(s) in Bangladesh condition. 	Gazipur Satkhira and Noakhali
960.	Large plot yield trial of proso millet germplasm	<ul style="list-style-type: none"> To select better performing proso millet lines for releasing as a variety 	Gazipur, Jamalpur and Rangpur
961.	Evaluation of buckwheat germplasm	<ul style="list-style-type: none"> To select high yielding genotypes based on yield and yield contributing characters 	Gazipur
962.	Regeneration of oat germplasm	<ul style="list-style-type: none"> To collect the oat germplasm and To regenerate the oat germplasm 	Gazipur
963.	Collection and maintenance of quinoa germplasm	<ul style="list-style-type: none"> To collect, maintain and enrich genetic resources of quinoa germplasm 	Gazipur
964.	Breeder seed production of barley	<ul style="list-style-type: none"> To maintain and increase seed of the released variety and Breeder seed will be produced to supply seed producing agency like BADC, DAE or NGOs and Distribution of quality seeds directly to the farmer 	Gazipur Debigonj Panchagarh Rangpur and Pabna
965.	Breeder seed production of millets and sorghum	<ul style="list-style-type: none"> To maintain and seed increase of the released variety and advance line ii Breeder's seed will be reproduced to supply seed producing agency like BADC, D DAE or NGOs and ii Distribution of quality seeds directly to the farmer 	Gazipur Debigonj Panchagarh Rangpur and Pabna
966.	Comparative study on oxidative stress tolerance in sorghum (C ₄) and barley (C ₃) crops under drought condition	<ul style="list-style-type: none"> To better understanding the comparative stress tolerance mechanism in C₄ and C₃ under drought. 	Gazipur
967.	Screening of barley genotypes against spot blotch	<ul style="list-style-type: none"> To identify new sources of resistance 	Gazipur
968.	Validation of promising selected proso millet lines under rainfed condition	<ul style="list-style-type: none"> To select better performing proso millet line (s) 	Gazipur Gaibandha and Rajshahi
969.	Field days on the performance of BARI released barley and foxtail millet varieties	<ul style="list-style-type: none"> To popularize BARI Barley and Foxtail millet varieties among the farmers and private agencies. 	Jamalpur Munshigonj Khulna and Tangail
970.	Training program	<ul style="list-style-type: none"> To train-up farmers for barley and millets production technology 	Jamalpur, Bogura Rajshahi and Khulna

Sl. No.	Research Title	Major Objective (s)	Location (s)
AGRONOMY DIVISION			
971.	Effect of seasonal variation and spacing on growth and yield of sorghum	<ul style="list-style-type: none"> To find out suitable spacing as well as seasonal variation for sorghum production 	Gazipur and Jamalpur
972.	Nitrogen use efficiency in maize through different application method	<ul style="list-style-type: none"> To increase efficiency of N in maize cultivation To observe the growth and yield of maize Uptake of N and protein content 	Gazipur
973.	Grain and fodder production of sorghum as affected by cutting time	<ul style="list-style-type: none"> To increase total productivity and economic return and Additional forage sorghum will be obtained 	Gazipur
974.	Preparation of maize compost through different composting method	<ul style="list-style-type: none"> To produce a new organic source of plant nutrients an To find out the effectiveness of maize compost 	Gazipur
975.	Effect of planting time of sweet potato under different management practices	<ul style="list-style-type: none"> To find out the suitable variety and management practice for year round production and Supply nutrient and economic return 	Jamalpur
976.	Effect of sowing date and fertilizer management on cabbage in summer season at Jashore region	<ul style="list-style-type: none"> To find out the optimum sowing date and fertilizer management for cabbage in the summer season 	Jashore
977.	Effect of sowing date and fertilizer management on cauliflower in summer season at Jashore region	<ul style="list-style-type: none"> To find out the optimum sowing date and fertilizer management for cauliflower in the summer season 	Jashore
978.	Collection and evaluation of murta plant germplasm in Bangladesh	<ul style="list-style-type: none"> To collect and evaluate the murta plant germplasm from different locations of Bangladesh and To identify the suitable line(s) of murta plant towards developing murta variety <p>Location: Barishal, Sylhet, Sunamganj, Barishal, Jhalakati, Tangail, Sirajganj, Cumilla, Noakhali, Feni and Chattagram</p>	
979.	Effects of management practices on the yield and quality of murta plant products in Bangladesh	<ul style="list-style-type: none"> To develop suitable management package for increasing the yield of murta plant (shitalpati) products and To improve the quality of murta plant products in Bangladesh. 	Barishal Jhalakati and Sylhet
980.	Effects of different chemical treatments of murta cane on the quality of shitalpati in Bangladesh	<ul style="list-style-type: none"> To develop suitable chemical treatment/process of murta cane for improving the quality of shitalpati in Bangladesh. 	Barishal Nalchity Jhalakati and Sylhet

Sl. No.	Research Title	Major Objective (s)	Location (s)
981.	Effect of gibberellic acid on growth and yield of potato	<ul style="list-style-type: none"> To find out appropriate concentration and appropriate time of GA₃ application in potato tuber production and To increase tuber number per plant and accelerate potato production scheme 	Dinajpur and Rajbari
982.	Effect of sowing date and planting method on growth and yield of squash	<ul style="list-style-type: none"> To evaluate the optimum sowing time and planting method of Squash 	Dinajpur Rajbari
983.	Yield and quality of newly released sweet potato varieties as influenced by integrated nutrient management	<ul style="list-style-type: none"> To find out suitable nutrient management of sweet potato for higher productivity 	Gazipur and Munshiganj
984.	Effect of seasonal variation and integrated nutrient management on growth, yield and quality of Squash	<ul style="list-style-type: none"> To know the suitable season for more production of squash and To increase productivity of Squash through integrated nutrient management. 	Gazipur and Rajbari
985.	Effect of seedling age on yield of transplanted sunflower under zero tillage condition in southern region of Bangladesh	<ul style="list-style-type: none"> To find out the optimum age of sunflower seedling for higher yield under zero tillage condition in southern region of Bangladesh 	Rahmatpur, Barishal
986.	Integrated weed management of okra	<ul style="list-style-type: none"> To find out the suitable weed management practice 	Gazipur and Jashore
987.	Integrated Weed Management of Mukhikachu (<i>Colocasiaesculenta</i>)	<ul style="list-style-type: none"> To find out the economic and effective way of weed management in Mukhikachu cultivation 	Jashore
988.	Effects of weed management practices on yield of pineapple in southern region of Bangladesh	<ul style="list-style-type: none"> To develop suitable weed management package for pineapple and To increase the yield and quality of pineapple through weed management in southern region of Bangladesh. 	Rahmatpur, Barishal
989.	Effect of integrated weed management on barley and soil microbes	<ul style="list-style-type: none"> To find out the critical period and suitable weed management practices in barley field and To observe the effect of herbicide on soil microbes 	Gazipur
990.	Response of fertilizer and weed management on black cumin	<ul style="list-style-type: none"> To find out the optimum fertilizer dose and suitable weed management for black cumin 	Gazipur
991.	Performance of legume vegetables intercropping with chilli	<ul style="list-style-type: none"> To find out the suitable intercrop combination of these crops. 	Gazipur and Hathazari
992.	Maize -legume strip cropping for resource conservation	<ul style="list-style-type: none"> To maintain sustainable productivity and To conserve soil health and soil moisture 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
993.	Intercropping of dwarf yard long bean with hybrid maize at different plant population	<ul style="list-style-type: none"> To increase total productivity and economic return and To find out suitable planting geometry of dwarf yard long bean with maize intercropping for higher productivity 	Gazipur and Jashore
994.	Intercropping onion and garlic with brinjal under different planting geometry	<ul style="list-style-type: none"> To find out suitable combination of onion and garlic with brinjal intercropping system for higher productivity and economic return 	Gazipur and Jashore
995.	Performance of relay bitter gourd in chilli+Onion intercropping at medium high land	<ul style="list-style-type: none"> To improve the cropping system through intercropping chilli with onion and To increase the farmer's income 	Jamalpur
996.	Performance of relay bitter gourd in chilli+lalsak intercropping at medium high land	<ul style="list-style-type: none"> To improve the cropping system through intercropping chilli with onion 	Jamalpur
997.	Performances of selected minor cereals as relay crops with T. aman rice in southern region of Bangladesh	<ul style="list-style-type: none"> To evaluate the performances of selected minor cereals as relay crops with T. aman rice and To increase the cropping intensity and economic return. 	Barishal
998.	Development of Four crop-based cropping patterns for increasing cropping intensity and productivity for Chittagong region	<ul style="list-style-type: none"> To increase the cropping intensity and productivity through crop intensification 	Hathazari
999.	Development of alternate cropping pattern for increasing cropping intensity and productivity in Rangpur region	<ul style="list-style-type: none"> To increase cropping intensity and productivity through crop intensification in rice-based cropping system and To increase farmer's income, access to food and nutrition, employment opportunity and woman's participation in agriculture. 	Burirhat, Rangpur
1000.	Nutrient management in potato-maize-T amancropping pattern for Rangpur region	<ul style="list-style-type: none"> To increase productivity through nutrient management 	Burirhat, Rangpur
1001.	Carbon sequestration through residue management and crop productivity in Potato-Maize- T. aman cropping pattern in long term basis	<ul style="list-style-type: none"> To find out carbon sequestration rate To maintain soil health in long basis and To observe productivity trend in long term basis 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1002.	Performance of intercropping pea with sorghum	<ul style="list-style-type: none"> To find out suitable combination of sorghum and garden pea intercropping system for higher productivity and nutritional security 	Gazipur and Burirhat
1003.	Improvement of existing cropping pattern through nutrient rich lentil varieties in lentil- <i>T. aus</i> - <i>T. aman</i> cropping pattern	<ul style="list-style-type: none"> To find out suitable variety of lentil for lentil-<i>T. aus</i>-<i>T. aman</i> cropping pattern To increase farmer's income, access to food and nutrition, employment opportunity and woman's participation in agriculture 	Gazipur, Ishurdi and Madaripur
1004.	Intercropping spinach and red amaranth with brinjal under different planting system	<ul style="list-style-type: none"> To find out suitable variety of lentil for lentil-<i>T. aus</i>-<i>T. aman</i> cropping pattern and To increase farmer's income, access to food and nutrition, employment opportunity and woman's participation in agriculture 	Gazipur
1005.	Estimation of nutrition from different cropping pattern	<ul style="list-style-type: none"> To sustain food security and enrich nutritional status through improved cropping system 	Gazipur
1006.	Long term effect of four crop-based cropping pattern on crop productivity and soil health	<ul style="list-style-type: none"> To observe the crop productivity trends in long term basis and To observe soil nutrient balance in long term basis 	Gazipur, Jashore Burirhat Jamalpur and Ishurdi
1007.	Development of vegetable based cropping pattern for increasing cropping intensity ensuring nutrition	<ul style="list-style-type: none"> To find out the suitable cropping pattern based on vegetable for higher productivity and economic return 	Jashore
1008.	Development of fertilizer package for five crop based cropping pattern in rice based cropping system	<ul style="list-style-type: none"> Development of fertilizer package for five crop based cropping pattern and Increase cropping intensity and productivity in rice based cropping system. 	Jashore
1009.	Development of alternate cropping pattern against Tomato-Fallow- <i>T. aman</i> rice in medium high land of Dinajpur	<ul style="list-style-type: none"> To improve the existing cropping pattern for increasing cropping intensity and productivity and To increase crop yield and farmers' income 	Rajbari, Dinajpur
1010.	Improvement of cropping intensity through relay yard long bean in maize+bush bean (Khaissa) intercropping	<ul style="list-style-type: none"> To improve the cropping system through relay yard long bean in maize + cowpea 	Hathazari and Burirhat
1011.	Potentiality of BARI released tomato varieties under prevail heat stress condition in Dinajpur	<ul style="list-style-type: none"> To identify the suitable BARI tomato variety in late planting 	Rajbari

Sl. No.	Research Title	Major Objective (s)	Location (s)
1012.	Estimation of temperature co-efficient of wheat for adjusting proper sowing time	<ul style="list-style-type: none"> To adjust the sowing of wheat in relation to temperature and To estimate the temperature co-efficient of wheat for adjusting sowing time. 	Gazipur Jamalpur and Rajbari
1013.	Performance of some selected grass pea genotypes against drought	<ul style="list-style-type: none"> To find out drought tolerant grass pea genotype(s) 	Gazipur
1014.	Efficient water management in sweet gourd cultivation	<ul style="list-style-type: none"> To develop water saving technology for sweet gourd cultivation and To reduce the cost for irrigation water in sweet gourd cultivation 	Gazipur
1015.	Screening of Cowpea (<i>Vigna unguiculata</i> L. Walp) genotypes for high yield and drought tolerance	<ul style="list-style-type: none"> To observe the effect of temperature on physiological behavior and To find out the suitable variety for higher pod yield 	Hathazari
1016.	Effect of plant spacing on potato under zero tillage mulch condition in southern coastal region of Bangladesh	<ul style="list-style-type: none"> To determine the effect of plant spacing on potato under zero tillage mulch condition for coastal saline soil and To escape the soil salinity stress during cropping season in southern coastal region. 	Amtoli, Barguna and Dacope, Khulna
1017.	Performance of garlic varieties under different tillage and mulch conditions in southern coastal region of Bangladesh	<ul style="list-style-type: none"> To find out the suitable variety (ies) for cultivation in southern coastal region of Bangladesh To observe the effect of mulching on the yield of garlic and To escape the soil salinity stress during cropping season in southern coastal region. 	Amtoli, Barguna and Dacope, Khulna
1018.	Integrated vegetables and fish cultivation through plastic drum based floating system in flooded ecosystem of Bangladesh	<ul style="list-style-type: none"> To integrate vegetables and fishes under floating agriculture system. To increase the total productivity and net return in flooded ecosystem through integrated vegetables and fish cultivation. 	Barishal and Pirojpur
1019.	Sorjan Based Integrated Farming Systems Research for Increasing Agricultural Productivity under Tidal Flooding Ecosystem in Southern Region of Bangladesh	<ul style="list-style-type: none"> To develop location specific sorjan based farming systems under tidal flooding ecosystem in southern region of Bangladesh and To increase the agricultural diversity under sorjan systems in southern region. 	Khulna
1020.	Effect of salinity irrigated water on growth and yield of lettuce	<ul style="list-style-type: none"> To investigate the potential for using saline water for the cultivation of lettuce 	Gazipur
1021.	Screening of different chilli germplasm in waterlogging condition	<ul style="list-style-type: none"> To find out suitable water logging tolerant chilli germplasm for cultivation in flooding area. 	Cumilla

Sl. No.	Research Title	Major Objective (s)	Location (s)
1022.	Evaluation of cucumber germplasm in waterlogging stress	<ul style="list-style-type: none"> To find suitable water logging tolerant cucumber genotype for cultivation in water logging area 	Cumilla
1023.	Fertilizer management in mustard as relay crop with <i>T. aman</i> rice under Ganges Tidal Floodplain	<ul style="list-style-type: none"> To develop nutrient management package for mustard as relay crop with <i>T. aman</i> rice under Ganges Tidal Floodplain and To increase the rice equivalent yield and economic return. 	Rahmatpur, Barishal
1024.	Performance of Minor Spices at Char land of Jamalpur	<ul style="list-style-type: none"> To study the performance of different minor spices at charland and To identify suitable minor spices crop for charland 	Nawbangha char, Jamalpur
1025.	Screening of foxtail millet in water stress condition in char land	<ul style="list-style-type: none"> To find out the suitable foxtail millet line / variety for water stress condition and To increase production area of char land 	Nawbangha char, Sadar, Jamalpur
1026.	Performance of sweet potato at char land areas in Rangpur	<ul style="list-style-type: none"> To find out suitable variety of sweet potato for charland 	Gangachara char, Burrirhat, Rangpur
1027.	Survey on PGR use pattern of different crops at farmers level in Jashore region	<ul style="list-style-type: none"> To know the PGR use pattern presently at farmers' level and To know the dose and frequency of PGR use at farmers' level 	Jashore
1028.	Survey and identification of weed species of different crops in Dinajpur region	<ul style="list-style-type: none"> To identify the major weed species of potato in Dinajpur 	Dinajpur
Demonstration and on farm validation			
1029.	Demonstration of hybrid maize-bushbean intercropping	<ul style="list-style-type: none"> To find out suitable combination of maize bushbean intercropping system in farmers field for higher productivity and nutritional security 	Banderban
1030.	Demonstration of hybrid maize-pea intercropping	<ul style="list-style-type: none"> To find out suitable combination of maize bushbean intercropping system in farmers field for higher productivity and nutritional security 	Jamalpur
1031.	Demonstration of hybrid maize-potato intercropping	<ul style="list-style-type: none"> To find out suitable combination of maize potato intercropping system in farmers field for higher productivity and nutritional security 	Kushita Rangpur and Cumilla
1032.	Demonstration of mustard- <i>Boro</i> -fallow cropping pattern through short duration mustard variety in the ChalanBeel area	<ul style="list-style-type: none"> To find out suitable cropping pattern in farmers' field of Chalanbeel area. 	Chalanbeel, Sirajgonj

Sl. No.	Research Title	Major Objective (s)	Location (s)
1033.	On farm trial of intercropping pea with hybrid maize at varying planting system	<ul style="list-style-type: none"> To validate the developed pea and hybrid maize intercropping in farmers field 	Jamalpur, Jashore Burirhat, Bandeban and Ishurdi
1034.	On farm trial of intercropping mungbean with mukhikachu at varying planting system	<ul style="list-style-type: none"> To validate the developed mungbean and mukhikachu intercropping in farmers field 	Burirhat, Jashore Tangail and Ishurdi
1035.	Validation of fertilizer management on fruit yield of Bt. Brinjal	<ul style="list-style-type: none"> To validate the effect of fertilizer management on fruit yield of Bt. Brinjal 	Hathazari Jashore and Ishurdi
SOIL SCIENCE DIVISION			
Physical Aspects of Soil Management			
1036.	Assessment of leaching loss of nutrients and determination of crop coefficient values of garlic through lysimetric studies	<ul style="list-style-type: none"> To find out the crop coefficient values (Kc) and evapotranspiration (Et) using lysimeter and To quantify leaching loss of nutrients. 	Gazipur
1037.	Effect of organic and synthetic mulches on soil temperature, nutrient availability and yield of squash	<ul style="list-style-type: none"> To determine the effects of different mulches on soil temperature and To observe the changes in soil moisture and trend of nutrient availability as governed by organic and synthetic mulches. 	Gazipur
1038.	Synchronization of different aged compost to crop demand, nutrient release and their contribution to the production of spinach	<ul style="list-style-type: none"> To determine the nutrient releasing trend of compost of different ages To synchronize the optimum age of compost for maximum benefit of the crop at its peak demand and To observe the changes in soil physical, chemical and biological properties 	Gazipur
1039.	Effect of crop establishment practices and IPNS based nutrient management on vegetable based cropping system and soil physical health	<ul style="list-style-type: none"> To investigate the performance of crops in vegetable based triple crops cropping system under the crop establishment and organic fertilizer application practices and To study the soil health under crop establishment and organic dominant IPNS in the cropping system 	Gazipur
1040.	Effect of crop establishment practices, residue management and starter N dose on N mineralization and soil health performance of vegetable-based cropping system	<ul style="list-style-type: none"> To find out the performance of crops in vegetable-based cropping system To study on N mineralization under starter dose of N and To find out the best combination of crop establishment practice, residue and starter N dose for vegetable-based cropping system and soil health. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1041.	Performance of anaerobically decomposed organic manure under different crop establishment practices	<ul style="list-style-type: none"> • Preparation of anaerobic decomposed organic manure • Incubation study on decomposition rate and nutrient release pattern from anaerobically decomposed organic manure and • Study on performance of the best combinations of organic manure and crop establishment practice at field level. 	Gazipur
1042.	Requirement of potassium fertilizer under tillage and residue management as a tool of conservation agriculture practice in the intensive Wheat-Mungbean-T.Aman cropping system	<ul style="list-style-type: none"> • To determine the optimum rate of potassium fertilizer for the intensive Wheat-Mungbean-T.Aman cropping system under CA practice • To evaluate the effects of crop residue and K fertilizer on soil physico-chemical properties and component crop productivity and • To assess the system productivity in the aforesaid cropping system. 	Jashore
1043.	Decomposition rates of different organic residues under tillage practices and release of nutrients under varied agro-climatic conditions	<ul style="list-style-type: none"> • To estimate the mass loss and release of C and N under crop establishment practices and different agro-climatic conditions and • To find out the mineralization rate of nutrients from different organic residues 	Gazipur, Rajshahi Faridpur, Sylhet Pabna, Satkhira and Chittagong
1044.	Effect of seed priming and sowing method on soil salinity amelioration and yield of sunflower in south-western Bangladesh	<ul style="list-style-type: none"> • To assess the germination percentage and yield attributes of sunflower under different seed priming and planting depth • To study the interactive effect of seed priming and planting depth on soil properties and yield of sunflower. 	Sathkira
1045.	Effect of conservation tillage and urea super granule on soil physico-chemical properties and productivity of Gardenpea – Panikachu - T.Aman	<ul style="list-style-type: none"> • To develop a protocol for USG application under CA practices • To study on the soil physical properties improvement under the crop establishment and USG application practices and • To investigate the performance of crops in the triple crops cropping system under the crop establishment and USG application practices. 	Gazipur
1046.	Effect of glyphosate on soil properties under tilled and untilled soil of wheat field	<ul style="list-style-type: none"> • To determine the phytotoxicity of glyphosate to wheat growth that will plant in sandy soil and clay soil at a different application rate of glyphosate and phosphorus and • To determine residual effects of glyphosate on the subsequent wheat growth when plant back period is of concern. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1047.	Effect of tillage methods and biochar on the cropping system productivity and establishment of carbon and nitrogen footprints	<ul style="list-style-type: none"> To observe the effects of tillage and biochar application on soil physical, chemical and biological properties and crop yields in the triple-crop cropping system To find out the optimum combination of tillage system and potential C source for C stabilization in soil and To assess C and N footprint under different tillage and C source 	Gazipur
1048.	Effect of conservation tillage and phosphorus on the productivity Gardenpea-Maize-T.Aman rice cropping pattern and soil properties	<ul style="list-style-type: none"> To find out the effect of tillage, liming and phosphorus on the productivity of the pattern and To ameliorate acid soil adopting conservation tillage and liming 	Gazipur
1049.	Effect of conservation tillage and split application of potassium on the productivity of Maize-Mungbean-T. Aman and physico-chemical properties of soil	<ul style="list-style-type: none"> To find out the effect of tillage and timing of potassium application on soil physico-chemical properties and To increase the productivity of the pattern 	Gazipur
1050.	Effect of conservation tillage and residue management on soil moisture retention and productivity of Chickpea – Irrigated rice – Monsoon rice cropping pattern in Barind soil	<ul style="list-style-type: none"> To observe the effect the tillage practices and residue management on soil moisture retention To make the best use of residual soil moisture in Barind tract's and To increase the crop productivity of the pattern. 	Barind (OFRD)
1051.	Effect of legume-vegetative cover crop in reducing soil loss and improving crop productivity in hilly region	<ul style="list-style-type: none"> To find out the effect of legume-vegetative cover crop on soil conservation To increase the productivity of hill slope by using LCC and VCC and To minimize rate of soil loss through utilization of LCC and VCC 	Ramgarh
1052.	Effect of IPNS on physico-chemical properties of soil and yield of mango	<ul style="list-style-type: none"> To observe the changes in physical and chemical properties of soil and To find out the influence of organic fertilizer on Mango. 	ChapaiNawabgonj (Mango Research Centre)
1053.	Effect of minimum tillage and crop residue retention on soil physico-chemical properties and crop	<ul style="list-style-type: none"> To observe the effects of tillage and crop residue on soil physico-chemical properties and crop yields in the rice – based cropping system and To find out the optimum combination in tillage systems and crop residue 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	yields under a rice-based cropping system	retention levels for higher crop yield and better soil health.	
1054.	Effect of tillage and nitrogen on the Mustard-Boro-T. Aman rice cropping system under conservation agriculture practice	<ul style="list-style-type: none"> To determine the optimum rate of nitrogen fertilizer for the intensive Mustard-Boro rice-T.Aman cropping system under conservation agriculture practice and To assess the system productivity in the intensive rice-based cropping system. 	Barind (OFRD)
1055.	Effect of minimum tillage and plant residue mulching on wheat cultivation in coastal saline areas of Bangladesh	<ul style="list-style-type: none"> To evaluate the best tillage practice for wheat in saline areas To observe the effect of permanent soil cover on wheat To know the performance of mechanized wheat production and To find out economic water use for wheat in saline areas 	Satkhira
Chemical Aspects of Soil Management			
1056.	Nutrient management for sustaining soil fertility and yield of Wheat-Mungbean-T. Aman cropping pattern	<ul style="list-style-type: none"> To find out judicious fertilizer recommendation for Wheat-Mungbean-T. Aman cropping pattern for sustainable yield and To monitor soil health after each cropping cycle of the pattern; 	Ishurdi and Jashore
1057.	Nutrient management for sustaining soil fertility and yield of Mustard-Mungbean-T. Aman cropping pattern	<ul style="list-style-type: none"> To find out judicious fertilizer recommendation for Wheat - Mungbean-T. Aman cropping pattern for sustainable yield and To monitor soil health after each cropping cycle of the pattern 	Ishurdi and Jashore
1058.	Long-term integrated nutrient management for sustaining soil fertility and yield of Maize-Mungbean-T. Aman cropping pattern	<ul style="list-style-type: none"> To find out judicious fertilizer recommendation for Maize-Mungbean-T. Aman cropping pattern for sustainable yield and To monitor soil health after each cropping cycle of the pattern; and 	Gazipur
1059.	Estimation of fertilizer requirement for four crop based cropping pattern (Mustard-Mungbean-Jute-T. Aman)	<ul style="list-style-type: none"> To develop a fertilizer recommendation for four crop-based cropping pattern and To maximize the yield of four crop-based cropping pattern through nutrient management 	Jamalpur and Jashore
1060.	Temporal analysis of climatic trends and projected changes in climate extremes over Barind region in Bangladesh	<ul style="list-style-type: none"> To analyze the climatic trends of observed climate indices To develop the future climate scenarios by different climate model (GCMs and RCM) and To develop some adaption measures based on future climate scenarios 	Barind (OFRD)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1061.	Integrated nutrient management for sweet orange	<ul style="list-style-type: none"> To develop optimum fertilizer dose for the cultivation of sweet orange 	Jamalpur
1062.	Nutrient management of panikachu on water hyacinth floating bed	<ul style="list-style-type: none"> To develop nutrient management package for panikachu on floating bed and To increase the yield of panikachu under floating agriculture 	Jamalpur
1063.	Nutrient management of turmeric on water hyacinth floating bed	<ul style="list-style-type: none"> To develop nutrient management package for turmeric grown on water hyacinth made floating bed and To increase the yield of turmeric under floating agriculture 	Rahamatpur
1064.	Effect of chemical fertilizer, cowdung and poultry manure on the yield of tomato in the southern region of Bangladesh	<ul style="list-style-type: none"> To find out the efficacy of cowdung and poultry manure on Tomato production To find out nutrient uptake as influenced by cowdung and poultry manure and To find out the effect of cowdung and poultry manure on soil properties. 	Rahamatpur
1065.	Effect of organic manures on broccoli yield and carbon accumulation in soil	<ul style="list-style-type: none"> To improve the stock of organic carbon in the soil and To increase crop yield through integrated plant nutrition system (IPNS) 	Gazipur
1066.	Comparative study of different application methods of potassium on panikachu	<ul style="list-style-type: none"> To compare the effect of basal and top dress application of K on quality of panikachu and To increase the yield of panikachu through K management 	Jamalpur
1067.	Effect of biochar and vermicompost as an organic soil amendment in sweet orange	<ul style="list-style-type: none"> To investigate the effect of biochar and vermicompost on growth and fruit yield of sweet orange and To develop of soil fertility through inclusion of biochar and vermicompost 	Jamalpur
1068.	Effect of poultry litter biochar in ameliorating acid soil	<ul style="list-style-type: none"> To investigate the effectiveness of poultry litter biochar on the amelioration of acidic soil. 	Gazipur
1069.	Effect of crop residue and their biochars for crop production	<ul style="list-style-type: none"> To compare the amelioration effects of CD, biochars and their feedstock on an acid soil To investigate the effects of incorporation of CD, biochars from crop residues on growth and yield of maize and To quantify the change of soil health 	Gazipur
1070.	Development of fertilizer recommendation for Aloe Vera	<ul style="list-style-type: none"> To find out optimum fertilizer doses for the production <i>Aloe Vera</i> 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1071.	Effect of different sources of organic manures on the yield of cauliflower	<ul style="list-style-type: none"> To find out suitable organic manure for cauliflower and To find out the efficacy of different organic manure on producing cauliflower 	Gazipur
1072.	Effect of bioslurry and chemical fertilizer on the yield and quality of onion	<ul style="list-style-type: none"> To find out effect of biogas slurry on the yield and yield component of onion To find out nutrient uptake as influenced by different sources To find out the effect of bio slurry on soil fertility and To increase farmer's income 	Gazipur
1073.	Development of fertilizer recommendation for garlic with chilli cropping system	<ul style="list-style-type: none"> To find out a suitable and economic fertilizer dose for maximizing the yield from the garlic with chilli intercropping system 	Gazipur
1074.	Nutrient management for a rooftop garden	<ul style="list-style-type: none"> To develop fertilizer recommendation for vegetables, fruits and flowers grown on the rooftop garden 	Gazipur
1075.	Development of fertilizer recommendation for cauliflower with maize intercropping system	<ul style="list-style-type: none"> To find out a suitable and economic fertilizer dose for maximizing the yield from the intercropping system 	Gazipur
1076.	Production of compost from household waste	<ul style="list-style-type: none"> To optimize the process parameter to produce compost from kitchen waste and To analyze the quality of compost produced from kitchen waste. 	Gazipur
1077.	Efficacy of different form of urea on nitrogen availability and yield of maize	<ul style="list-style-type: none"> To find out use efficiency of different form of urea and To find out the yield and yield components of maize as influenced by different form of urea. 	Gazipur
1078.	Effect of different rate of nitrogen and phytohormone on the yield of sunflower in coastal area	<ul style="list-style-type: none"> To identify the best combination of nitrogen and phytohormones on the yield of sunflower in coastal area and To find out optimum dose of phytohormones to ameliorate soil salinity for sunflower production in saline areas 	Satkhira
1079.	Effect of biochar and chemical fertilizers on the yield of brinjal in different bed condition	<ul style="list-style-type: none"> To study the effect of biochar and chemical fertilizers on the yield of brinjal to observe the effect of biochar against bacterial wilt on different bed system and To produce healthy and vigorous plants for high yield goal 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1080.	Nutrient management for lemon	<ul style="list-style-type: none"> To find out optimum and economic fertilizer dose for yield maximization of lemon and To know the response of lemon to added nutrients 	Jamalpur
1081.	Comparative study on effectiveness of TSP and DAP fertilizer on Brinjal	<ul style="list-style-type: none"> To find out suitable Phosphorus fertilizer source on brinjal and To increase the yield of brinjal through Phosphorus management 	Jamalpur
1082.	Development of fertilizer recommendation for coriander with garlic intercropping system	<ul style="list-style-type: none"> To find out a suitable and economic fertilizer dose for maximizing the yield from coriander with garlic intercropping system 	Jamalpur
1083.	Nutrient management of sesame in Barishal region	<ul style="list-style-type: none"> To develop nutrient management package for sesame in Barishal region and To increase the yield of sesame through fertilizer management. 	Rahamatpur
1084.	Effect of different nitrogen sources on nitrogen use efficiency and yield of tomato in Cumilla Region	<ul style="list-style-type: none"> To find out the best nitrogen source for tomato yield in Cumilla Region and To find out the nitrogen use efficiency of different sources on nitrogen. 	Cumilla
1085.	Effect of biochar on yield and nutrient uptake of cabbage	<ul style="list-style-type: none"> To find out optimum dose of chemical fertilizer and biochar To find out nutrient uptake pattern as influenced by various level of biochar and To increase soil fertility and sustain crop productivity. 	Gazipur
1086.	Effect of kitchen waste compost on soil carbon accumulation and tomato yield	<ul style="list-style-type: none"> To minimize waste disposal problem and increase soil fertility To enhance carbon accumulation in soil and To increase crop yield. 	Gazipur
1087.	Effect of vermiwash on yield and quality of brinjal	<ul style="list-style-type: none"> To investigate the role of vermiwash on yield and quality of brinjal and To find out suitable foliar dose of vermiwash for maximizing the yield of brinjal 	Jamalpur
1088.	Nutrient management through compost and tricho compost on soil fertility improvement and yield of garlic	<ul style="list-style-type: none"> To study the effect of compost and tricho compost for getting the healthy and vigorous plants for high yield goal To reduce the chemical fertilizers through organic manuring and To evaluate benefit cost ratio of compost and trichocompost for profitable production of garlic 	Jamalpur
1089.	Nutrient management through organic manuring and biofertilizers on soil	<ul style="list-style-type: none"> To study the effect of tricho compost and Arbuscular mycorrhizae for getting the healthy and vigorous plants for high yield goal 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	fertility improvement and yield of garlic	<ul style="list-style-type: none"> To reduce the chemical fertilizers through organic manuring and To evaluate benefit cost ratio of trichocompost and Arbuscular mycorrhizae for profitable production of garlic. 	
1090.	Effect of integrated nutrient management on the yield and nutrient uptake of foxtail millet	<ul style="list-style-type: none"> To assess the effect of organic and inorganic fertilizer on the yield of foxtail millet and To increase soil fertility and sustain crop productivity 	Gazipur and Jamalpur
1091.	Development of permanent block for identifying nutrient deficiency symptoms of crops round the year	<ul style="list-style-type: none"> Development of a demonstration site at RARS, Jamalpur for the farmers, extension personnel and researchers round the year and Facilitate the knowledge about plant nutrient deficiency symptom 	Jamalpur
1092.	Effect of biochar on soil properties after 5-years of in-situ aging under field conditions	<ul style="list-style-type: none"> Investigate the changing nature of biochar and its effect on soil properties Identify the soil health improvement after amendment and Accelerate the sustainable carbon sequestration in to soil. 	Jamalpur
1093.	Effect of biochar on yield and quality of potato	<ul style="list-style-type: none"> To produce spotless and quality tuber To control the scab disease of potato and To sequester carbon in soil for a long time. 	Jamalpur
Micronutrient Aspects of Soil Management			
1094.	Determination of heavy metal status of different vegetables from industrially polluted and non-polluted areas	<ul style="list-style-type: none"> To study the accumulation of heavy metals in vegetables To correlate the heavy metals uptake with essential plant nutrients and To compare the heavy metal status of grown in polluted and non-polluted areas 	Gazipur
1095.	Growth, yield and bulb quality of onion in response to foliar application of zinc and boron	<ul style="list-style-type: none"> To investigate the role of boron and zinc on growth, yield and quality of onion and To find out the suitable foliar dose of zinc and boron for maximizing the yield of onion 	Gazipur
1096.	Response of zinc and boron on yield and nutrient content of coriander	<ul style="list-style-type: none"> To identify a suitable combination of zinc and boron fertilization for Coriander production To evaluate the requirement of Zinc and Boron fertilizer for coriander and To estimate zinc and boron content and uptake both leaves and seeds of coriander. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1097.	Effect of foliar application of zinc on the yield of maize in <i>GangesFlood Plain</i> soils of coastal saline areas	<ul style="list-style-type: none"> To observe the effect of foliar zinc on maize yield in GFP saline soil To find out the best dose of foliar zinc required for optimum maize yield in saline soil and To evaluate the best stage of plant responses towards foliar spray of zinc 	Gazipur
1098.	Determination of critical limit of zinc for lentil	<ul style="list-style-type: none"> To determine and update of critical limit of zinc in different soils for lentil. 	Gazipur
1099.	Boron and zinc management for quality litchi production	<ul style="list-style-type: none"> To find out the effect of micronutrient especially Boron and Zinc on litchi production To develop a balanced fertilizer recommendation for maximizing the yield of litchi and To protect fruit dropping and cracking. 	Ishurdi
1100.	Estimation of greenhouse gas emission and carbon sequestration from crop fields	<ul style="list-style-type: none"> To obtain quantitative estimates of greenhouse gases (CO₂, CH₄ and N₂O) and the carbon sequestration for dominant cropping patterns and To determine the impact of management practices for carbon sequestration under different cropping patterns. 	Gazipur
1101.	Nanoscale zinc oxide particles for improving the growth, yield and quality of amaranth	<ul style="list-style-type: none"> To study the effects of ZnO nano particles on the growth, yield and quality of amaranth To calculate zinc content and uptake of amaranth and To evaluate the efficiency of ZnSO₄ and ZnO nanoparticles. 	Gazipur
1102.	Assessment of heavy metal pollution and health risks in the soil-plant-human systems	<ul style="list-style-type: none"> Determine the contamination levels of chromium (Cr), lead (Pb), cadmium (Cd), copper (Cu), zinc (Zn), nickel (Ni), arsenic (As), and mercury (Hg) in soil and plants and Evaluate the potential health risks caused by heavy metals and metalloids in different age groups via different pathways 	Gazipur
1103.	Estimation of CO ₂ and N ₂ O emission from organic manures and amenders in maize field	<ul style="list-style-type: none"> To evaluate the CO₂ and N₂O emission from terrace soils due to application of biochar, cowdung, poultry manure and vermicompost To observe the maize growth, yield and nutrient uptake and To enhances soil physicochemical properties. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1104.	Effect of boron on yield and nutrient uptake of mungbean	<ul style="list-style-type: none"> To study the effect of boron on yield and nutrient uptake of mungbean To estimate optimum dose of boron for higher yield of mungbean and To find out the boron use efficiency of mungbean 	Gazipur
1105.	Effect of seed priming on yield and nutrient uptake of cauliflower	<ul style="list-style-type: none"> To investigate the role of seed priming on growth, yield and quality of cauliflower and To find out the interactive effect of seed priming on nutrient uptake of cauliflower. 	Gazipur
1106.	Effect of soil and foliar application of boron and zinc on yield and nutrient uptake of strawberry	<ul style="list-style-type: none"> To find out optimum combination of Zn and B fertilization for strawberry production and To compare the effect of the method of micronutrient application foliar vs. soil fertilization on yield and nutrient uptake of strawberry 	Gazipur
1107.	Bioremediation of heavy metals polluted soil from industrial effluents polluted areas using microbes and biochar	<ul style="list-style-type: none"> To evaluate the efficiency of microbes and biochar as a bioaccumulator for heavy metal in contaminated soil and To mitigate heavy metal contamination and to improve crop quality 	Gazipur
1108.	Bioremediation of arsenic in contaminated soils using microbes and biochar	<ul style="list-style-type: none"> To evaluate the role of microbes and biochar in arsenic availability To find out the suitable microbes and biochar for soils in reducing arsenic contamination and To mitigate arsenic contamination and to improve crop quality. 	Gazipur
Microbiological Aspects of Soil Management			
1109.	Study on collection, isolation and screening of indigenous <i>Rhizobium</i> strains, arbuscular mycorrhizal fungi, <i>Azotobacter</i> , phosphate solubilizing bacteria and <i>Azospirillum</i> strain(s) for different crops from different AEZs of Bangladesh	<ul style="list-style-type: none"> To select the best indigenous <i>Rhizobium</i> strain(s), arbuscular mycorrhizal fungi, <i>Azotobacter</i>, phosphate solubilizing bacteria and <i>Azospirillum</i> strain(s) from different AEZs of Bangladesh and To prepare biofertilizer for different legume and other crops 	All RARS and Gazipur
1110.	Assessment of Arbuscular mycorrhizal association in different plants and crops	<ul style="list-style-type: none"> To study the percent root colonization and AM fungal spore population in the rhizosphere soil and To produce suitable AM inoculum for future use in different plants and crops 	Khagrachori Jamalpur Gopalganj and Rangpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1111.	Effect of Arbuscular mycorrhiza and toxic metals on different vegetables	<ul style="list-style-type: none"> To know the effect of AM inoculation on the uptake of toxic metals by different vegetables treated with different concentration of toxic metals and To reduce the toxic metals through the use of arbuscular mycorrhiza 	Gazipur
1112.	Effect of <i>Azotobacter</i> on the growth and yield of onion	<ul style="list-style-type: none"> To study the role of <i>Azotobacter</i> on the growth and yield of onion and To find out the nutrient uptake as influenced by <i>Azotobacter</i> 	Gazipur
1113.	Bio control of foot and root rot disease of pulse and oilseed crops by dual inoculation with <i>Rhizobium</i> and arbuscular mycorrhiza	<ul style="list-style-type: none"> To observe the effect of pre-inoculation of AM and <i>Rhizobium leguminosarum</i> on the disease resistance of pulse and oilseed crops infected by pathogen and To produce healthy and vigorous seedlings of different pulse and oilseed crops 	Gazipur
1114.	Effect of Arbuscular mycorrhizal fungi and phosphorus on vegetables, spices and legume crops	<ul style="list-style-type: none"> To study the effect of combined use of arbuscular mycorrhiza and phosphorus on the performing of vegetables spices and fruit crops under field condition and To reduce to use of P-fertilizer for vegetables, spices and legume crops 	Gazipur
1115.	Effect of biofertilizer, vermicompost and chemical fertilizers on cowpea	<ul style="list-style-type: none"> To study the effect of bio-fertilizer and vermicompost on yield of cowpea To find out nutrient uptake as influence by bio-fertilizer and vermicompost and To reduce the chemical fertilizer in cowpea cultivation 	Gazipur
1116.	Study on the rhizobial population and other soil microorganism status of different soils (AEZs) of Bangladesh	<ul style="list-style-type: none"> To study the native rhizobial and other soil microorganism population of different soils of Bangladesh and To know the effect of climate change on the rhizobial population and other soil microorganisms 	Different AEZ of Bangladesh
1117.	Effect of <i>Trichoderma harzianum</i> and Arbuscular mycorrhizal fungi on growth and disease management in vegetable and pulse crops	<ul style="list-style-type: none"> The aim of this study was to investigate the potential of AMF and <i>Trichoderma harzianum</i>, alone and in dual combination on different growth parameters and disease management in vegetable and pulse crops 	Gazipur
1118.	Effect of cropping pattern and seasonal variation on soil microbial biomass carbon and nitrogen in different AEZs soil of Bangladesh	<ul style="list-style-type: none"> To determine soil microbial biomass carbon and nitrogen in different cropping pattern To find out the seasonal variation of microbial biomass carbon and nitrogen and To monitor the soil fertility status 	Different AEZ of Bangladesh

Sl. No.	Research Title	Major Objective (s)	Location (s)
1119.	Study on symbiotic, biochemical and molecular characterization of Rhizobial strains isolated from different AEZs and their PGPR activity and N ₂ fixation properties in pulse and oil seed legume	<ul style="list-style-type: none"> To isolate and identify effective rhizobial strains from acidic, drought, saline and hilly areas of Bangladesh. To measure nodulation test of collected strains in respective crops and To measure plant growth promoting activity and N fixation capacity in respective crops 	Gazipur
1120.	Response of lentil varieties to elite strains of <i>Rhizobium</i>	<ul style="list-style-type: none"> To study the response of <i>Rhizobium</i> inoculation with different varieties of lentil and To study the effect of <i>Rhizobium</i> inoculation and varieties at different locations 	Gazipur
1121.	Validation of biofertilizer on different legumes (Mungbean, lentil, chickpea, groundnut, soybean etc.)	<ul style="list-style-type: none"> To popularize the rhizobium biofertilizer technology for producing pulse and oilseed legumes in the farmers level 	All OFRD stations
1122.	Effect of Arbuscular mycorrhizal inoculation on groundnut at different salinity levels	<ul style="list-style-type: none"> To evaluate the role of AMF and the percentage of AM colonization on growth and nutrient uptake of groundnut under salinity stress condition and To observe the effect of AM under salinity stress condition. 	Gazipur
1123.	Effect of bio-fertilizer and chemical fertilizers on nodulation pattern, nodule initiation date and yield of pulse crop varieties	<ul style="list-style-type: none"> To know the microbial population status, nodulation pattern and nodule initiation date of chickpea varieties and To increase the yield of chickpea by using bio-fertilizer with low input cost 	Ishurdi
1124.	Effect of sterilization of peat on survival of microbial population at two storage condition	<ul style="list-style-type: none"> To know the survival of <i>Rhizobium</i> in inoculant using different autoclave process and storage condition 	Gazipur
1125.	Effect of Arbuscular mycorrhizal fungi, biochar and vermicompost on soybean in saline soil	<ul style="list-style-type: none"> To evaluate the role of AMF and the percentage of AM colonization on growth and nutrient uptake of soybean under salinity stress condition (12 ds m⁻¹) and To observe the effect of AM, biochar and vermicompost under salinity stress condition (12 ds m⁻¹). 	Gazipur
1126.	Isolation of salt tolerant <i>Rhizobium</i> and their characterization, plant growth promoting and symbiotic performance on pulse and oilseed legume	<ul style="list-style-type: none"> To isolate and identify effective rhizobial strains from coastal saline areas of Bangladesh To characterize morphological, biochemical and PGPR of effective rhizobial strains and To measure nodulation test of collected strains in respective crops. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1127.	DNA isolation, molecular characterization and gene sequences of salt tolerant rhizobial strains and their symbiotic effect on soybean and groundnut at different salinity level	<ul style="list-style-type: none"> To Isolate DNA, molecular characterize and gene sequence of effective salt tolerant bacteria under stress condition To measure stress related enzyme activity soybean and groundnut and To measure N fixation capacity and growth performance of soybean and groundnut at different salinity level 	Gazipur
1128.	Salt tolerant bacterial performance on soybean and groundnut in saline stress coastal region of Bangladesh	<ul style="list-style-type: none"> To check the infection ability of <i>Rhizobium</i> on soybean and groundnut roots in native saline stress condition and To measure N fixation capacity, growth and yield performance of soybean and groundnut 	Rahamatpur
1129.	Effect of organic fertilizer, chemical fertilizer and arbuscular mycorrhizal fungi on growth and yield of lemon	<ul style="list-style-type: none"> To study the effect of organic fertilizer, chemical fertilizer and arbuscular mycorrhizal fungi (AMF) on lemon To find out nutrient uptake as influenced by those fertilizer and To reduce the chemical fertilizer and popularize the AMF 	Jalampur
1130.	Effects of biofertilizer, biochar and chemical fertilizers on yield and qualitative properties of Groundnut	<ul style="list-style-type: none"> To study the effects of bio-fertilizer and biochar on yield and qualitative properties of Groundnut and To reduce the chemical fertilizer in groundnut cultivation 	Ishurdi
PLANT PATHOLOGY DIVISION			
1131.	Study of the disease reaction of guava native germplasm against <i>Nalanthamalapsidii</i> new wilt disease pathogen	<ul style="list-style-type: none"> To screen resistant or moderate susceptible germplasm against <i>Nalanthamalapsidii</i>, wilt disease causing pathogen 	Gazipur
1132.	Characterization and evaluation of microbial prevalence in vegetables with newly developed washing machine of BARI	<ul style="list-style-type: none"> To study the prevalence of microbes after washing with newly developed machine, and to determine the washing performance of machine for shelf life of vegetables 	Gazipur
1133.	Study on Choanephora blight of chilli	<ul style="list-style-type: none"> Survey for the occurrence of Choanephora blight in major chilli growing areas, isolation and characterization of Choanephora sp. and Screening of fungicides and biocontrol agents against Choanephora sp. in in vitro. 	Rangpur
1134.	Characterization of pathogens for head blight complex of minor cereals	<ul style="list-style-type: none"> To identify and characterize the causal organisms for head blight and their interactions on phenotypic and genotypic level. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1135.	Yield loss assessment of lentil due to stemphylium blight disease.	<ul style="list-style-type: none"> To measure and quantify the loss of yield in lentil due to stemphylium blight disease 	Gazipur and Ishurdi
1136.	Characterization of novel species for degradation of propiconazole fungicide in mango	<ul style="list-style-type: none"> To explore the new approach for degrading the propiconazole in mango by the novel species 	Hathazari and Gazipur
1137.	Stemphylium blight disease and yield of lentil as influenced by date of sowing, fungicide spray and variety	<ul style="list-style-type: none"> To evaluate date of sowing and screening of superior lentil variety(s) to manage Stemphylium blight disease. 	Ishurdi
1138.	Impact of Climatic Condition of Jamalpur on White Mold of Mustard	<ul style="list-style-type: none"> To establish a relationship between climate change and disease incidence 	Gazipur
1139.	Yield loss assessment of late blight (lb) resistant potato variety/germplasm under natural inoculum pressure	<ul style="list-style-type: none"> To evaluate the resistant ability of varieties / germplasm To assess the yield loss due to disease and To select optimum time of planting for avoiding late blight disease 	Burirhat, Rangpur and Debiganj, Panchagarh
1140.	Isolation and identification of causal organism of gummosis disease in wood apple	<ul style="list-style-type: none"> To identify the causal organism of gummosis disease in wood apple 	Rangpur
1141.	Study on the Relationship of Weather Factors in Disease Development in Onion	<ul style="list-style-type: none"> To know the effect of weather factors on the incidence and severity as well as disease development in onion 	Gazipur and Jashore
1142.	Screening of collected cucumber lines against different diseases	<ul style="list-style-type: none"> To know the different disease status of cucumber and To screen the cucumber lines against different diseases 	Gazipur
1143.	Screening of mustard lines/varities against alternaria blight or leaf spot disease	<ul style="list-style-type: none"> To find out resistant lines/varities against the diseases. 	Jamalpur
1144.	Screening of selected potato varieties and germplasm against late blight disease	<ul style="list-style-type: none"> To confirm the resistant ability of varieties / germplasms and To reduce the yield loss due to disease 	Burirhat, Rangpur and Debiganj, Panchagarh
1145.	Efficacy of different new fungicides in controlling Sigatoka disease of banana	<ul style="list-style-type: none"> To find out the effective fungicides in controlling sigatoka disease of banana 	Bogura

Sl. No.	Research Title	Major Objective (s)	Location (s)
1146.	Evaluation of new fungicides for controlling purple blotch disease of onion	<ul style="list-style-type: none"> To find out the effective fungicides against purple blotch disease of onion. 	Gazipur and Jashore
1147.	Efficacy of fungicides in controlling White Mold disease of French bean	<ul style="list-style-type: none"> To find out the appropriate chemical fungicide to control the disease 	Gazipur
1148.	Evaluation of new chemical fungicides against Early blight of Tomato	<ul style="list-style-type: none"> To find out the appropriate chemical fungicide to control the disease 	Gazipur
1149.	Evaluation of different new fungicides in controlling Powdery Mildew of Pumpkin	<ul style="list-style-type: none"> To find out an effective chemical in controlling powdery mildew of Pumpkin 	Gazipur Jamalpur Comilla and Jashore
1150.	Evaluation of different new fungicides in controlling Anthracnose of Chilli	<ul style="list-style-type: none"> To find out an effective chemical in controlling Anthracnose of Chilli 	Gazipur, Jamalpur Cumilla and Jashore
1151.	Efficacy of new fungicides in controlling Phomopsis Blight and Fruit Rot of Brinjal	<ul style="list-style-type: none"> To study the efficacy of different new fungicides for controlling Phomopsis Blight and Fruit Rot of Brinjal. 	Gazipur
1152.	Management of Leaf Spot and Vine rot disease of Betel Vine	<ul style="list-style-type: none"> To find out the appropriate management practice(s) of the disease. 	Bogura.
1153.	Management of stem blight and wilt diseases of water melon	<ul style="list-style-type: none"> To identify effective management strategy for stem blight and wilt of water melon. 	Gazipur
1154.	Management of wilt disease of summer tomato	<ul style="list-style-type: none"> To identify the effective control measures against wilt disease of summer tomato 	Narsingdi
1155.	Management of powdery mildew of pumpkin on floating bed cum trellis	<ul style="list-style-type: none"> To find out an effective chemical in controlling powdery mildew of pumpkin To reduce yield losses of that crops. 	Rahmatpur, Barishal
1156.	Management of white rust of red amaranth under floating agriculture	<ul style="list-style-type: none"> To find out an effective chemical in controlling white of red amaranth and To reduce yield losses of that crops 	Rahmatpur, Barishal
1157.	Management of downy mildew (<i>Pseudoperonospora cubensis</i>) of cucurbits on floating bed cum trellis	<ul style="list-style-type: none"> To find out an effective and suitable control measure of the disease and to reduce disease severity and increase yield 	Rahmatpur, Barishal
1158.	Fungicidal management of Alternaria leaf spot and flower blight of marigold	<ul style="list-style-type: none"> To know the effect of fungicides in controlling alternaria leaf spot and flower blight of marigold 	Ishurdi, Pabna

Sl. No.	Research Title	Major Objective (s)	Location (s)
1159.	Fungicidal management of white mold/ sclerotinia rot disease of country bean	<ul style="list-style-type: none"> To know the effect of fungicides in controlling white mold/ sclerotinia stem rot disease of country bean and To determine the effect of fungicides on mycelia growth of <i>Sclerotinia sclerotiorum</i> in laboratory. 	Gazipur
1160.	Effect of different fungicidal combinations in controlling late blight of potato	<ul style="list-style-type: none"> To select effective combination (s) of fungicides for controlling late blight of potato 	Burirhat, Rangpur
1161.	Effect of different organic matter for managing soil borne diseases (common scab and stem canker & black scurf) of potato	<ul style="list-style-type: none"> To select effective organic amendment(s) for potato cultivation 	Burirhat, Rangpur and Debiganj, Panchagarh
1162.	Evaluation of microbial products for controlling Fusarium and Bacterial Wilt of Brinjal and Bt Brinjal	<ul style="list-style-type: none"> To observe the efficacy of microbial products in controlling fusarium and Bacterial Wilt of Brinjal 	Gazipur
1163.	Screening of pathogenic Fungi <i>Fusarium sp</i> and <i>Sclerotinia sclerotiorum</i> for Mycoviruses with Virocontrol Potential	<ul style="list-style-type: none"> To collect and isolate of major soil borne pathogens. To screen plant pathogenic fungal strains <i>Fusarium sp</i> and <i>S. sclerotiorum</i> for identification of mycoviruses association To preserve hypovirulent strains for future use 	Gazipur
1164.	Survey and management of wilt disease of Guava	<ul style="list-style-type: none"> To find out the present status of wilt disease of guava in Bangladesh and To develop suitable method for management of the disease 	Rajshahi
1165.	Screening of organic composts for mass culturing of <i>Trichoderma harzianum</i> to be used against foot & root rot and wilt diseases of chickpea	<ul style="list-style-type: none"> To find out the appropriate compost materials for mass culture of <i>T. harzianum</i> isolates and To evaluate formulated <i>Trichoderma</i> against soil-borne pathogens 	Gazipur
1166.	Screening of compost and biochar against soil borne pathogens	<ul style="list-style-type: none"> To evaluate different composts and biochar for management of soil borne pathogens and To identify suitable composts and biochar against the soil borne pathogens 	Gazipur
1167.	Development of eco-friendly diseases management technology of tomato and eggplant	<ul style="list-style-type: none"> To develop effective, cheap and eco-friendly package for root knot and bacterial wilt diseases of tomato 	Gazipur
1168.	Development of bio-rational based management package	<ul style="list-style-type: none"> To develop effective bio-rational based diseases management technology against 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	against powdery mildew disease of cucurbits	powdery mildew disease of sweet gourd and bottle gourd.	
1169.	Development of bio-rational management package of panama and sigatoka diseases of banana	<ul style="list-style-type: none"> To develop effective and cheap integrated management package(s) against panama and sigatoka diseases of banana 	Gazipur and Kushtia (OFRD)
1170.	Development of bio-rational management package of disease complex of betel vine	<ul style="list-style-type: none"> To develop an effective management package(s) against diseases of betel vine 	Rahmatpur, Barisal Bogura and Kushtia
1171.	Evaluation of anti phytopathogenic activities of seaweed extract	<ul style="list-style-type: none"> To find out an effective and eco-friendly management option against different plant pathogens 	Gazipur
1172.	Study on disease scenario under four crops-based cropping system to increase cropping intensity and productivity	<ul style="list-style-type: none"> To study the disease scenario under four crop-based cropping system compared to rice monoculture 	Gazipur
1173.	Effect of irrigation in controlling common scab of potato	<ul style="list-style-type: none"> To find out the effective management practices in controlling common scab of potato 	Burirhat, Rangpur
1174.	Development of cost-effective integrated fertilizer management practice utilizing agricultural waste tobacco dust	<ul style="list-style-type: none"> To develop cost-effective integrated fertilizer management practice utilizing agricultural waste tobacco dust To manage soil borne disease 	Burirhat
1175.	Demonstration on IPM package technology for the management of panama disease of banana	<ul style="list-style-type: none"> To find out effectiveness of the mature technology against Panama disease of banana in farmers field 	Jessore
1176.	Integrated management of <i>Orobanche</i> of mustard	<ul style="list-style-type: none"> To find out the effective management practices against orobanche of mustard 	Ishurdi, Pabna
1177.	Management of banana postharvest anthracnose	<ul style="list-style-type: none"> To evaluate some biocontrol and chemical product against banana postharvest anthracnose. 	Gazipur
1178.	Collection, isolation and identification of <i>Xanthomonas campestris</i> pv. <i>campestris</i> from Cabbage and Cauliflower	<ul style="list-style-type: none"> To identify the different isolates of pathogenic bacteria <i>Xanthomonas campestris</i> pv. <i>campestris</i> from cabbage and cauliflower to preserve them as type culture. 	Gazipur
1179.	Biochemical and physiological comparison of Tomato isolates of <i>Ralstonia solanacearum</i> with isolates of Brinjal, Potato and Ginger	<ul style="list-style-type: none"> To determine the phenotypic diversity of <i>R. solanacearum</i> isolates from different host plants 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1180.	Collection and Isolation of endophytic bacteria to suppress bacterial wilt pathogens	<ul style="list-style-type: none"> To identify endophytic bacteria as biological control agents to manage the bacterial wilt disease 	Gazipur
1181.	Yield loss assessment of Ginger due to Bacterial Wilt based on physical seed sorting	<ul style="list-style-type: none"> To estimate yield reduction of ginger due to bacterial wilt based on percent seed infection and (ii) To suggest suitable seed that will be helpful for minimization of loss. 	Gazipur
1182.	Characterization of newly isolated endophytic <i>Bacillus</i> isolates against major pathogens	<ul style="list-style-type: none"> To find out the eco-friendly antagonistic endophytic novel <i>Bacillus</i> species to major pathogens 	Hathazari
1183.	Screening of Different Citrus Lines/Varieties against Greening Disease under Natural Field Condition	<ul style="list-style-type: none"> To explore resistant/tolerant varieties/lines against greening disease of citrus 	Gazipur
1184.	Screening of Different Brinjal Lines/Varieties against Bacterial Wilt under Natural Field Condition	<ul style="list-style-type: none"> To explore resistant/tolerant varieties/lines against bacterial wilt disease of brinjal 	Gazipur
1185.	Evaluation of bactericide against bacterial wilt disease of Brinjal	<ul style="list-style-type: none"> To identify effective bactericide against the wilt disease 	Gazipur
1186.	Validation trail of <i>Bacillus oryzicola</i> YC7007 for controlling bacterial wilting in eggplant	<ul style="list-style-type: none"> To explore the new approach for controlling the wilting of eggplant by the endophytic bio-agent YC7007 	Hathazari
1187.	The efficacy test of formulated product by <i>Bacillus siamensis</i> YC7012 for controlling greening disease of sweet orange (BARI Malta-1)	<ul style="list-style-type: none"> To check the antagonistic activities by the <i>Bacillus</i> sp. YC7012 against the greening disease (<i>Candidatus Liberibacter</i> spp.) of BARI Malta 1 	Hathazari
1188.	PCR based detection of Yard long bean infecting virus in Bangladesh	<ul style="list-style-type: none"> To identify major viruses of Yardlong bean in Bangladesh 	Gazipur
1189.	Studies on Symptomatic Variability of PRSV-P	<ul style="list-style-type: none"> To find out the genetical and biological variability of biotypic strains of PRSV-P 	Gazipur
1190.	Confirmation of presence of <i>Citrus tristeza virus</i> (CTV) in citrus by using molecular tools	<ul style="list-style-type: none"> Identification of <i>Citrus tristeza virus</i> (CTV) in citrus for sustainable citrus production 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1191.	Immuno-nucleobased diagnosis of tospoviruses infecting tomato, water melon and onion	<ul style="list-style-type: none"> To identify Tospoviruses that infecting tomato, watermelon and onion in northern part of Bangladesh 	Gazipur
1192.	Determination of transmission mechanism of okra yellow vein clearing mosaic virus OKYVCMV)	<ul style="list-style-type: none"> To determine transmission mechanisms of OKYVCMV of Okra 	Rahmatpur
1193.	Screening of Cucumber germplasm against Cucumber mosaic virus (CMV)	<ul style="list-style-type: none"> To find out resistant/tolerant cucumber germplasm(s) against CMV 	Gazipur
1194.	Evaluation of okra varieties resistant to Okra yellow vein mosaic virus (OKYVMV)	<ul style="list-style-type: none"> To find out OKYVCMV resistant/ tolerant okra variety/ line 	Gazipur
1195.	Screening of chili lines/varieties against leaf curl virus disease	<ul style="list-style-type: none"> To find out the resistant lines/varieties against the disease 	Ishurdi
1196.	Integrated management of Cucumber mosaic virus of Chilli	<ul style="list-style-type: none"> To find out suitable management packages against CMV of chilli. 	Gazipur
1197.	Integrated management of leaf curl virus disease of chili using nylon net, chemicals, bio-pesticides and barrier crop	<ul style="list-style-type: none"> To find out the effective management practices in controlling leaf curl virus disease of chili 	Ishurdi
1198.	Integrated management for Little leaf and Phyllody of Brinjal	<ul style="list-style-type: none"> To find out integrated management practices against little leaf and Phyllody of brinjal. 	Gazipur
1199.	Effect of nematicide, bio-pesticides and organic amendments for the control of root-knot disease of Indian spinach and seed yield	<ul style="list-style-type: none"> To find out the effective management practices in controlling root-knot disease of Indian spinach 	Gazipur
1200.	Survey, isolation and identification of diseases of dragon fruit	<ul style="list-style-type: none"> To identify different diseases and causal organisms of dragon fruit and To assess the disease status (disease incidence and severity). 	Dragon fruit growing area of Bangladesh
1201.	Survey, Isolation and Identification of Plant-parasitic Nematodes of Different Fruits of Bangladesh	<ul style="list-style-type: none"> To know the prevalence of plant-parasitic nematodes in some economically important fruit crops in Bangladesh and To identify those nematodes based on morphological characters 	Jashore Satkhira Barishal Gazipur Kishoreganj and Sylhet

Sl. No.	Research Title	Major Objective (s)	Location (s)
1202.	Survey, isolation and identification of major diseases of Gerbera flower	<ul style="list-style-type: none"> To identify new diseases as well as previously recorded diseases of Gerbera flower and To assess the disease status (severity and estimated losses) of Gerbera flower 	Different flower growing areas
1203.	Survey, isolation and identification of diseases in Tuberose and Gladiolus	<ul style="list-style-type: none"> To identify different diseases and its causal organisms and To assess the disease status (disease incidence and severity) 	Different flower growing areas
1204.	Survey on bacterial wilt disease of Bt-brinjal in Bangladesh	<ul style="list-style-type: none"> To find out the wilt disease infection scenario in Bt-brinjal <p>Location: Plain land (Gazipur, Narsingdi, Kishorgonj, Manikgonj, Sherpur) Coastal belt (Khulna, Noakhali, Cumilla) and North zone (Rangpur, Pabna, Bagura and Barind area)</p>	
1205.	Survey and immuno-nucleobased diagnosis of cucurbit infecting viruses in Northern part of Bangladesh	<ul style="list-style-type: none"> To find out the cucurbit infecting viruses, diseases incidence and yield loss by the associated diseases 	Gazipur
1206.	Survey and identification of watermelon diseases in Bangladesh	<ul style="list-style-type: none"> To find out the major diseases infecting watermelon, diseases incidence and yield loss by the associated diseases 	Gazipur
1207.	Survey on fruit diseases in Bangladesh	<ul style="list-style-type: none"> To identify new diseases as well as existing diseases of different fruit crops and To assess the disease status of different fruit crops. 	Major fruit growing areas of Bangladesh
1208.	Survey on Malta diseases at Southern Region of Bangladesh	<ul style="list-style-type: none"> To identify the diseases of Malta and To determine the severity of the diseases 	Barishal Pirojpur, Jalkathi Gopalganj and Sylhet region
1209.	Survey, isolation and identification of major diseases of vegetable and spice crops on floating bed cultivation in Bangladesh	<ul style="list-style-type: none"> To identify different diseases and its causal organisms and To assess the disease status (disease incidence and severity) 	Project area
1210.	Survey of aloe Vera plant diseases	<ul style="list-style-type: none"> To identify new diseases as well as existing diseases of Aloe vera plant. 	Ishurdi, Pabna
1211.	Survey of Major Diseases of Chilli in Jamalpur and Sherpur Districts	<ul style="list-style-type: none"> To identify different diseases of chilli and To determine the severity of the diseases 	Jamalpur and Sherpur
1212.	Surveillance of Greening Disease of Citrus in Jamalpur Region	<ul style="list-style-type: none"> To identify greening disease of citrus and To determine the severity of the disease 	Jamalpur
1213.	Survey and identification of major postharvest diseases of fruit and vegetable in Bangladesh	<ul style="list-style-type: none"> To identify existing major postharvest fungi borne diseases of fruit and vegetable from different fruit and vegetable growing region of Bangladesh 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To estimate the specific crop loss due to specific postharvest disease and To record the existing postharvest practices or existing fungicides treatment to reduce fruit and vegetable postharvest diseases (especially those caused by fungi). 	
1214.	Survey and identification of major diseases of vegetable crops in saline area	<ul style="list-style-type: none"> To identify existing diseases of vegetable crops in the saline area and To assess the disease status of different field/vegetable crops in the saline area. 	Koira, Dumuria, Botiaghata, Bagherhut, and Satkhira
ENTOMOLOGY DIVISION			
1215.	Response of promising mungbean varieties/ entries against flower thrips and pod borers	<ul style="list-style-type: none"> Finding out the more resistant mungbean varieties/entries against flower thrips and pod borers and Finding out the high yielding varieties/entries of mungbean. 	Ishurdi, Pabna
1216.	Foliar application of commercially available macro and micro nutrients for the management of major insect pests of mungbean	<ul style="list-style-type: none"> Developing environment friendly management of major insect pests of mungbean with macro and micronutrients Producing toxic insecticide free mungbean with higher yield 	Ishurdi, Pabna and Barishal
1217.	Evaluation of some management packages against flower thrips and pod borers of mungbean both in farmer's field and on station conditions	<ul style="list-style-type: none"> Developing environment friendly effective and economic management approach (es) against flower thrips and pod borers of mungbean and Producing toxic synthetic insecticide free mungbean 	Gazipur Barisal and Barind, Rajshahi.
1218.	Survey, monitoring, and documentation of <i>Riptortus pedestris</i> (Hemiptera: alydidae) in southern region of Bangladesh	<ul style="list-style-type: none"> To record the severity of <i>Riptortus pedestris</i> in soybean, cowpea and mungbean 	Rahmatpur, Barisal
1219.	Evaluation of some management packages against pod borer, <i>Helicoverpa armigera</i> infesting chickpea in the farmers' field and on station conditions	<ul style="list-style-type: none"> Finding out an environment friendly management approach of chickpea pod borer at Barind area. 	Barind, Rajshahi and Gazipur
1220.	Population fluctuation of grasspea aphid, <i>Aphis craccivora</i> in relation to sowing time and its effect on grain yield	<ul style="list-style-type: none"> To know population fluctuation trend and to find out suitable time (s) of sowing to avoid aphid infestation To assess yield loss due to aphid infestation 	Ishurdi, Pabna

Sl. No.	Research Title	Major Objective (s)	Location (s)
1221.	Effect of fresh water, botanicals and synthetic chemicals on pea aphid, <i>Acyrtosiphon pisum harris</i> in field pea	<ul style="list-style-type: none"> To find out effective management option of pea aphid in field pea 	Ishurdi, Pabna
1222.	Development of integrated pest management technologies against major insect pests of soybean	<ul style="list-style-type: none"> To avoid the the indiscriminate use of insecticides for controlling of insect pest of soyabean and To determine the best management package for the control of insect pest of soyabean 	Gazipur and Noakhali
1223.	Screening of soyabean entries against leaf roller and hairy caterpillar under natural field condition	<ul style="list-style-type: none"> To find out the resistant entries against leaf roller and hairy caterpillar and To record the incidence of the pests 	Gazipur
1224.	Study of the incidence and damage severity of flea beetle and pod borer in mustard	<ul style="list-style-type: none"> To record the incidence of flea beetle and pod borer in mustard and To estimate damage severity of these pests in mustard varieties. 	Gazipur, Jessore and Jamalpur
1225.	Survey and documentation of insect pests and their natural enemies of sunflower	<ul style="list-style-type: none"> To record the insect pest's species of sunflower with their natural enemies and To estimate the extent of damage by the major insect pests of sunflower. 	Gazipur Barisal and Patuakhali
1226.	Comparative evaluation of different IPM packages against major insect pests of brinjal	<ul style="list-style-type: none"> Validation and up scaling of IPM package for the control of major insect pests of brinjal and Production of toxic synthetic chemical pesticide free brinjal 	Gazipur and Jessore
1227.	Development of a management approach against sucking pests of Brinjal	<ul style="list-style-type: none"> To obtain a suitable management option against sucking pests of Brinjal 	Gazipur and Jamalpur
1228.	Evaluation of new dimension management options against brinjal shoot and fruit borer, <i>Leucinodes orbonalis</i> guenee	<ul style="list-style-type: none"> To obtain a new aspect management options against brinjal shoot and fruit borer 	Gazipur
1229.	Dissemination of bt eggplant production under IPM package at different regions of Bangladesh	<ul style="list-style-type: none"> To popularize the Bt eggplant cultivation under IPM package 	Different regions of Bangladesh
1230.	Comparison of insect pest populations between floating bed and conventional practices in cucurbits	<ul style="list-style-type: none"> To know the difference of insect pest's population between floating agriculture and conventional practices To assess the crop loss by insect pests in floating agriculture and conventional practices and 	Rahmatpur, Barisal

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To assess the yield difference between floating agriculture and conventional practices 	
1231.	Development of bio-rational pest management package against major insect pests of cucurbits grown on floating bed	<ul style="list-style-type: none"> To develop bio-rational based pest management package against major insect pests of cucurbit and To produce toxic synthetic chemical pesticide free cucurbits. 	Barishal Pirojpur and Gopalganj
1232.	Development of bio-rational based management approach against <i>Spodoptera litura</i> and <i>Diaphania indica</i> in cucumber grown on floating bed	<ul style="list-style-type: none"> To develop bio-rational based pest management package against <i>Spodoptera litura</i> and <i>Diaphania indica</i> of cucurbit and To produce toxic synthetic chemical pesticide free cucurbits. 	Rahmatpur, Barishal
1233.	Survey, monitoring and documentation of major insect pests in vegetable and spices crops grown on floating bed	<ul style="list-style-type: none"> To document the damage severity of insect pests attacking Cucumber, sweet gourd, okra, and Indian spinach grown on floating bed 	Barishal Pirojpur and Gopalganj
1234.	Sustainable management options against whitefly, whitefly-vectored <i>Begomoviruses</i> and fruit worm in tomato	<ul style="list-style-type: none"> To develop suitable IPM packages for the control of major insect pests of tomato and To produce toxic chemical pesticides free tomato 	Gazipur
1235.	Bio-rational based management package(s) against whitefly and borer pests of summer tomato	<ul style="list-style-type: none"> Developing environment friendly integrated management approach(es) against whitefly and borer pests of summer tomato and Producing of toxic synthetic chemical pesticide free tomato 	BARI, Gazipur and RARS, Barisal
1236.	Development of management approach against tomato leaf miner, <i>Tuta absoluta</i>	<ul style="list-style-type: none"> To develop IPM approach against tomato leaf miner Location: Gazipur Burirhat Bogura, Thakurgaon and Panchagarh (On-farm) 	
1237.	Survey, incidence and pest status of tomato leaf miner, <i>Tuta absoluta</i> in different regions of Bangladesh	<ul style="list-style-type: none"> To find out the incidence and pest status of tomato leaf miner in different areas of the country and To know the the critical time of attack of this insect pest Location: Gazipur, Jamalpur, Bogura, Thakurgaon Panchagarh, Hathazari, Akberpur and Khagrachhari 	
1238.	Dissemination of bio-rational IPM package against tomato leafminer, <i>Tuta absoluta</i> in Panchagarh regions of Bangladesh	<ul style="list-style-type: none"> To disseminate and popularize developed IPM package and To motivate the farmers to adopt IPM package through field day and Training program 	Panchagarh

Sl. No.	Research Title	Major Objective (s)	Location (s)
1239.	Bio-rational based management packages against major insect pests of county bean	<ul style="list-style-type: none"> To develop IPM package for the control of major insect pests of country bean and To produce toxic pesticide free country bean 	Gazipur and Jashore
1240.	Bio-rational based management of pod borer, <i>Maruca vitrata</i> f. Attacking summer country bean	<ul style="list-style-type: none"> To develop IPM package for the pod borer infesting summer country bean and To produce toxic pesticide free country bean 	Gazipur, Jashore and Isurdi, Pabna
1241.	On farm validation of Bio-rational integrated pest management (IPM) packages for quality and safe country bean production	<ul style="list-style-type: none"> To avoid indiscriminate use of insecticides for controlling major insect pest of country bean and To find out best bio-rational based IPM package against major insect pest of country bean 	Mymensingh Netrakona and Sherpur
1242.	Status of pod borer complex and their natural enemies on country bean	<ul style="list-style-type: none"> To find out status of pod borer complex and their natural enemies on bean and To identify the natural enemies of pod borer complex 	RARS, Burirhat, Rangpur
1243.	Monitoring of fall Armyworm (<i>Spodoptera frugiperda</i>) in vegetable crops at different regions of Bangladesh	<ul style="list-style-type: none"> To detect first occurrence of fall armyworm in vegetable crops and To monitor severity and populations in individual fields to inform grower treatment decisions 	RARS and Bogra and Thakurgaon
1244.	Development of a management approach against pod borer attacking yard long bean	<ul style="list-style-type: none"> To develop appropriate strategy for managing the pod borer attacking Yard long bean. 	Gazipur
1245.	Evaluation of some Bio-pesticides against sucking insect pests of yard long bean	<ul style="list-style-type: none"> To develop appropriate strategy for managing the sucking pests attacking yard long bean. 	Gazipur
1246.	Development of Bio-rational management package(s) against flea beetle, <i>Phyllotreta striolata</i> attacking cabbage	<ul style="list-style-type: none"> To develop IPM package for managing flea beetle attacking cabbage 	Gazipur, Bogura and Jashore
1247.	Survey and monitoring of insect pests of roof garden	<ul style="list-style-type: none"> To find out the insect pests' status and it's severity at roof garden 	Gazipur
1248.	Development of Bio-rational management approach against insect pest complex of okra	<ul style="list-style-type: none"> To develop appropriate strategy for managing the insect pest complex of okra 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1249.	Development of bio-rational management approach against insect pest complex of okra grown on floating bed	<ul style="list-style-type: none"> To develop appropriate strategy for managing the insect pest complex ofokra grown on floating bed 	Barishal Pirojpur and Gopalganj
1250.	Diversity and abundance of insects associated with red amaranth, <i>Amaranthus cruentus</i>	<ul style="list-style-type: none"> To determine the diversity and abundance of insect pests and natural enemies associated with red amaranth crop 	Gazipur Jashore and Rangpur
1251.	Assessment the yield loss of red amaranth, <i>Amaranthus cruentu</i> due to the insect pests	<ul style="list-style-type: none"> To determine the yield loss as a result of insect pest damage and if it warrants control intervention 	Gazipur Jeshore and Rangpur
1252.	Effect of various control strategies on insect pest population of red amaranth, <i>Amaranthus cruentus</i>	<ul style="list-style-type: none"> To develop a bio-rational based integrated pest management plan for red amaranth pests and To determine the effects of bio-rational on the population of insect pest of red amaranth 	Gazipur Jeshore and Rangpur
1253.	Integrated management of cutworm (<i>Agrotis ipsilon</i>) in potato	<ul style="list-style-type: none"> To find out an effective management approach for potato cutworm 	Debiganj and Bogura
1254.	Survey and documentation of insect pests attacking potato in Rajshahi region	<ul style="list-style-type: none"> Documentation of insect pests attacking potato at Tanor, Godagari and Mohanpur of Rajshahi district. 	Tanor, Godagari and Mohanpur, Rajshahi, Debiganj, Panchagarh
1255.	Management of potato tuber moth (PTM) in storage condition	<ul style="list-style-type: none"> To find out an effective management approach for potato tuber moth (PTM) in storage and To estimate the extent of damage by PTM 	Bogura and Debiganj
1256.	Field efficacy of attract and kiil method against potato tuber moth in field condition	<ul style="list-style-type: none"> To know the effectiveness of attract and kill method against potato tuber moth in field and To monitor of the population of PTM in the field condition and their extent of damage 	Bogur Gazipur Munshiganj and Debiganj
1257.	Evaluation of released potato varieties and advanced materials against potato cutwrom (<i>Agrotis ipsilon</i>) in field condition	<ul style="list-style-type: none"> To evaluate BARI released potato varieties along with advanced lines against cut worm in the field 	Bogura, Gazipur Munshiganj and Debiganj
1258.	Development of management approach against root aphid (<i>Pemphigus</i> sp.) attacking potato	<ul style="list-style-type: none"> To find out the most effective management option for root aphid on potato and To know the damage severity of the pest 	Joypurhat

Sl. No.	Research Title	Major Objective (s)	Location (s)
1259.	Development of effective integrated management package against sweet potato weevil in farmer's field	<ul style="list-style-type: none"> To develop eco-friendly, cost effective and compatible IPM measures for the management of sweet potato weevil 	Bogura and Gazipur
1260.	Screening of different sweet potato varieties/lines against sweet potato weevil (<i>Cylas fromicarius</i> fab.)	<ul style="list-style-type: none"> To identify the suitable varieties/lines resistance/tolerant to sweet potato weevil infestation and To determine the effects of sweet potato weevil infestation on the yield 	Bogur Gazipur Munshiganj and Debiganj
1261.	Monitoring and documentation of major insect pests of Mukhikachu	<ul style="list-style-type: none"> Identification of insect pests attacking aroid and Determination of damage severity of insect pests 	Bogura, Gazipur and Munshiganj
1262.	Survey and monitoring of new pest arthropods infesting tuber crops	<ul style="list-style-type: none"> Identification of insect pests attacking tuber crops and Determination of damage severity of insect pests 	Gazipur, Bogura Debiganj and Munshiganj BADC (On-farm)
1263.	Development of eco-friendly management approach against <i>Spodoptera litura</i> in aroid	<ul style="list-style-type: none"> To find out the eco-friendly management approach for controlling <i>Spodoptera litura</i> in aroid 	Jalalpur
1264.	Studies on succession of insect-mite pests on yam	<ul style="list-style-type: none"> Identification of insect pests attacking yam and Determination of damage severity of insect pests over time 	Bogura
1265.	Studies on succession of insect-mite pests on cassava	<ul style="list-style-type: none"> Identification of insect pests attacking cassava and Determination of damage severity of insect pests 	Bogura
1266.	Effect of bagging on the yield and quality of mango	<ul style="list-style-type: none"> To find out the after effect of bagging on mango quality and To know the keeping quality of mango after use of bagging 	Gazipur
1267.	Field validation of ICM techniques in reducing flower and fruit dropping of mango at hbt	<ul style="list-style-type: none"> To reduce flower and fruit dropping by improved management packages in farmer's field and To reduce indiscriminate use of insecticides. 	Godagari, Rajshahi and Sapahar, Noagaon.
1268.	Field validation of bio-rational based management techniques for the control of mango fruit fly in Rajshahi region	<ul style="list-style-type: none"> To popularize bio-rational based management techniques in controlling mango fruit fly among the farmers. 	Charghat and Bagha, Rajshahi
1269.	Development of management techniques against scale insect attacking mango	<ul style="list-style-type: none"> Development of the proper management technique(s) to control mango scale insect. 	Charghat and Bagha, Rajshahi

Sl. No.	Research Title	Major Objective (s)	Location (s)
1270.	Development of management approach against red banded mango caterpillar, <i>Deanolis sublimbalis</i>	<ul style="list-style-type: none"> To develop a suitable management technique against mango red banded caterpillar 	Chapai-nawabganj
1271.	Development of management approach against mango fruit fly, <i>Bactrocera dorsalis</i>	<ul style="list-style-type: none"> To find out the appropriate management package for controlling mango fruitfly 	Jamalpur
1272.	Development of a bio-rational based management package for mango fruit fly and nut weevil	<ul style="list-style-type: none"> To develop a management package against mango fruit fly and nut weevil To increase mango production in Rangpur region 	Burirhat, Rangpur
1273.	Dissemination of mango bagging with double layer brown paper bag technology for controlling fruitfly, <i>Bactrocera dorsalis</i> in high rainfall and hilly areas of Bangladesh	<ul style="list-style-type: none"> To disseminate and popularize the fruit bagging technology for controlling mango fruitfly in high rainfall and hilly areas To create awareness among farmers and other stakeholders about bagging technology 	Moulvibazar Khagrachari and Rangamati
1274.	Dissemination of biopesticide, <i>Beauveria bassiana</i> based management approach against mango hopper in different regions of Bangladesh	<ul style="list-style-type: none"> To validate the performance of <i>Beauveria bassiana</i> based management approach for controlling mango hopper in farmers' field level 	Satkhira, Meherpur Chapainawabgonj and Rajshahi
1275.	Efficacy of different types of baggs for management of mango fruit fly, <i>Bactrocera dorsalis</i> attacking mango	<ul style="list-style-type: none"> To find out suitable method of reducing fruit fly population in mango 	Binodpur, Rajshahi
1276.	Development of a management approach against litchi mite (<i>Eriophyes litchii</i>)	<ul style="list-style-type: none"> To find out the most effective method of managing litchi mite 	Binodpur, Rajshahi.
1277.	Response of different varieties of litchi to litchi mite (<i>Eriophyes litchii</i>)	<ul style="list-style-type: none"> To find out the susceptible varieties of litchi to litchi mite 	Binodpur, Rajshahi
1278.	Development of management approach against litchi fruit borer (<i>Conopomorpha sinensis</i>)	<ul style="list-style-type: none"> To develop cost effective technique for managing litchi fruit borer 	Binodpur, Rajshahi
1279.	Study on the biology of litchi fruit borer	<ul style="list-style-type: none"> To study of life the cycle and alternate hosts of Litchi fruit borer and To find out the most vulnerable stage of Litchi fruit borer 	Binodpur, Rajshahi.

Sl. No.	Research Title	Major Objective (s)	Location (s)
1280.	Development of management approach against litchi fruit borer	<ul style="list-style-type: none"> To develop a suitable management technique against litchi fruit borer 	Jamalpur Rajshahi and Ishurdi, Pabna
1281.	Assessment of the pest status of asian citrus psyllid (<i>Diaphorinacitri</i>) and documentation of its parasitoids	<ul style="list-style-type: none"> To document pest status of asian citrus psyllid To document parasitoid status of asian citrus psyllid and To identify collected parasitoid (if any) of asian citrus psyllid 	Gazipur, Cumilla and Sylhet
1282.	Seasonal fluctuation and natural enemies of major insect pests of citrus at regional agricultural research station, Burirhat, Rangpur	<ul style="list-style-type: none"> To document the seasonal fluctuation of major insect pests of citrus and To record the natural enemies of major insect pests of citrus. 	Burirhat, Rangpur
1283.	Development of integrated pest management (IPM) package against sucking pests of guava	<ul style="list-style-type: none"> To develop the suitable IPM option against sucking pest of guava. 	Gazipur and Binodepur, Rajshahi
1284.	Development of effective control measure against oriental fruit fly, <i>Bactrocera dorsalis</i> attacking guava	<ul style="list-style-type: none"> To find out the most suitable method for reducing fruit fly infestation in guava. 	Binodpur, Rajshahi
1285.	Development of environment friendly management approach against coconut mite	<ul style="list-style-type: none"> To find out eco-friendly management practices against coconut mite 	Barishal
1286.	Survey of white fly and shooty mold attacking coconut tree in Jashore region of Bangladesh	<ul style="list-style-type: none"> To document the white fly and shooty mold attacking coconut tree and To document the damage severity of coconut tree 	Jashore Khulna and Narail
1287.	Development of environment friendly management approach against fruit borer of Bermese grape (lotkon)	<ul style="list-style-type: none"> To develop the suitable IPM option against fruit borer of Bermese grape (lotkon) 	Gazipur Debigonj, Panchagarh and Narsingdi
1288.	Development of integrated management Approach against wax apple fruit flies	<ul style="list-style-type: none"> To develop cost effective techniqu for managing wax apple fruit fly. 	Binodpur, Rajshahi
1289.	Development of effective management technique against oriental fruit fly attacking custard apple	<ul style="list-style-type: none"> To find out the economically viable technique to reduce fruit fly infestation in custard apple. 	Binodpur, Rajshahi

Sl. No.	Research Title	Major Objective (s)	Location (s)
1290.	Development of management approach against hog-plum beetle, <i>Podontia 14-punctata</i>	<ul style="list-style-type: none"> To develop a suitable management technique against Hog-plum beetle 	Gazipur Barisal Debigonj, Panchagarh and Raikhali
1291.	Development of mass rearing protocol of newly identified parasitoid <i>Acerophagus papayae</i>	<ul style="list-style-type: none"> To develop a suitable mass rearing protocol of the parasitoid, <i>Acerophagus papayae</i> 	Gazipur (Entomology Division)
1292.	Survey of papaya mealy bug, <i>Paracoccus marginatus</i> and their parasitoid <i>Acerophagus papayae</i> on different vegetables and fruits crops especially in the Indo-Bangla border belts	<ul style="list-style-type: none"> To record the incidence of papaya mealy bug, <i>Paracoccus marginatus</i> and their parasitoid, <i>Acerophagus papayae</i> on different vegetables and fruits crops at different locations of the country (especially at the India-Bangladesh border belts). Location: Gazipur, Jashore, Sylhet, Khulna, Cumilla Moulvibazar, Rajshahi and Panchagar Gazipur, Jashore, Sylhet, Khulna, Cumilla, Moulvibazar, Rajshahi and Panchagar 	
1293.	Development of eco-friendly management Approach against mealybug, <i>Paracoccus marginatus</i> in papaya	<ul style="list-style-type: none"> To find out the appropriate management approach for controlling mealybug in papaya 	Jamalpur
1294.	Survey and documentation of insect pollinators/visitors in different fruit crops during flowering period.	<ul style="list-style-type: none"> To document the different pollinators/visitors of different fruit crops during flowering period 	Binodpur, Rajshahi (FRS)
1295.	Survey of insect pests attacking rose and determination of their damage potential	<ul style="list-style-type: none"> To document the insect pest attacking rose To document the damage severity of rose 	Jessore
1296.	Development of management approach against thrips of roses	<ul style="list-style-type: none"> To avoid the indiscriminate use of insecticides for the control of thrips of rose and To develop a suitable management package for the control of thrips of rose. 	Jessore
1297.	Bio-rational management of bollworm attacking rose	<ul style="list-style-type: none"> To develop an environment friendly management approach for rose boll worm 	Gazipur
1298.	Evaluation of Chilli germplasms against thrips and mites	<ul style="list-style-type: none"> To identify the promising material(s) resistance to thrips and mites and To test the performance of different selected Chilli genotypes in different region for releasing variety 	Bogura Gazipur and Rangpur
1299.	Development of bio-rational pest management approach against thrips-mite	<ul style="list-style-type: none"> To develop appropriate strategy for managing the thrips-mites complex infesting chilli grown on floating bed. 	Barishal, Pirojpur and Gopalganj

Sl. No.	Research Title	Major Objective (s)	Location (s)
	complex in Chilli grown on floating bed		
1300.	Sustainable management approach against Thrips-mite and borer complex in Chilli	<ul style="list-style-type: none"> To find out the cost-effective management options against thrips-mite complex in chilli and To know the extent of damage of thrips-mite complex in chilli 	Gazipur, Bogura and Rangpur
1301.	Screening of different local summer chilli germplasms against thrips and mites	<ul style="list-style-type: none"> To find out the tolerant/resistance chilli germplasm against thrips and mites 	Jamalpur
1302.	Survey, monitoring and documentation of major insect pests of betel leaf	<ul style="list-style-type: none"> To Identification of insect pests attacking of betel leaf 	Rahmatpur Bogura and (On-farm)
1303.	Seasonal fluctuation of major insect pests of betel leaf	<ul style="list-style-type: none"> To document the seasonal fluctuation of the major insect pests of betel leaf 	Barishal and Bogura
1304.	Development of bio-rational based management approach against sucking pests of betel leaf	<ul style="list-style-type: none"> To develop suitable management package(s) in controlling sucking pests of betel leaf 	Rahmatpur and (On-farm)
1305.	Development of environment friendly management approach against betel vine black fly, <i>Aleurocanthus</i> spp. (Aleyrodidae: Hemiptera)	<ul style="list-style-type: none"> To find out eco-friendly management practices against betel vine black fly 	Barishal and Bogura
1306.	Assessment of the pest status and seasonal fluctuation of major insect pests of some selected vegetables and fruits	<ul style="list-style-type: none"> To record the severity of damage of insect pests of vegetables and fruits at different locations of the country and To document the seasonal fluctuation of the major insect pests 	Gazipur, Jamalpur Jessore, Rangpur Rajshahi and Chapainawabgonj
1307.	Impact of microbials on stored grainpest, <i>Callosobruchus chinensis</i> (Coleoptera: Bruchidae) in mungbean	<ul style="list-style-type: none"> To develop an IPM package against stored pest of pulse 	Gazipur and Ishurdi
1308.	Survey monitoring and documentation of parasitoids of stored grain pest	<ul style="list-style-type: none"> To document parasitoids status of stored pests and To identify collected parasitoid (if any) in the storage 	Gazipur Sylhet and Rangpur
1309.	Effect of seed drying method on the infestation level of pulse beetle, <i>Callosobruchus</i>	<ul style="list-style-type: none"> To determine suitable initial seed moisture percentage during seed storage to minimize damage due to bruchid pulse beetle infestation and 	Ishurdi, Pabna

Sl. No.	Research Title	Major Objective (s)	Location (s)
	<i>chinensis</i> linn in lentil seed	<ul style="list-style-type: none"> To find out effective seed drying method to avoid bruchid infestation. 	
1310.	Study on the time of harvesting of Baishakhi lac crop for maximizing yield of lac	<ul style="list-style-type: none"> To determine the proper time of harvesting of Baishakhi crop for maximum lac yield. 	Chapainawabganj
1311.	Field validation of improved lac production technologies at different lac growing areas	<ul style="list-style-type: none"> To adapt improved lac production technologies in farmers field for better lac production. 	Chapainawabganj, Naogaon and Rajshahi
1312.	Influence of chemical and non-chemical fertilizers on lac host plant <i>Flemingia</i> sp, lac insect growth and incidence of lac insect pests	<ul style="list-style-type: none"> To know the effect of organic and in-organic fertilizers on <i>Flemingia</i> sp. for better lac production. 	Chapai-nawabganj (LRS)
1313.	Mass rearing of fall armyworm (<i>Spodoptera frugiperda</i>) under laboratory condition	<ul style="list-style-type: none"> To develop mass rearing protocol of FAW To determine the effective food material (s) for mass rearing of FAW and To determine the effect of different food materials on the development of different stages of FAW 	Gazipur
1314.	Mass rearing of two different egg parasitoids (<i>Trichogramma pretiosum</i> and <i>Telenomus remus</i>) under laboratory condition	<ul style="list-style-type: none"> To develop mass rearing protocol of <i>Trichogramma pretiosum</i> and <i>Telenomus remus</i> 	Gazipur
1315.	Efficacy of <i>Trichogramma pretiosum</i> and <i>Telenomus remus</i> for parasitizing the eggs of fall armyworm in laboratory	<ul style="list-style-type: none"> To know the effectiveness of <i>Trichogramma pretiosum</i> and <i>Telenomus remus</i> as egg parasitoids of Fall armyworm 	Gazipur
1316.	Development and validation of analytical methods for multiple pesticide residue determination in major vegetables using GC-MS/MS.	<ul style="list-style-type: none"> To develop and validate a multi-residue analytical method for the analysis of newly registered pesticide (Chlorantraniliprole, Chlorphenapyr, Acetamiprid, Indoxacarb, Carbendazim, Mancozeb, Azoxystrobin) in eggplant, country bean, cabbage & cauliflower using QuEChERS Extraction and Gas Chromatography Tandem Mass Spectrometry/ Gas Chromatography Mass Spectrometry 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
1317.	Development and validation of analytical methods for multiple pesticide residue	<ul style="list-style-type: none"> To develop and validate a multi-residue analytical method for multiple pesticide residue determination in eggplant, cabbage & cauliflower using 	Gazipur (Pesticide Analytical Laboratory and On –station)

Sl. No.	Research Title	Major Objective (s)	Location (s)
	determination in major vegetables using LC-MS/MS.	QuEChERS Extraction and Liquid Chromatography Tandem Mass Spectrometry.	Entomology Division)
1318.	Development and validation of analytical methods for multiple pesticide residue determination in major vegetables using GC.	<ul style="list-style-type: none"> To develop and validate a multi-residue analytical method for the analysis of chlorphenapyr, mancozeb, metalaxyl, tebuconazole in Eggplant & cauliflower using QuEChERS Extraction and Gas Chromatography. 	Gazipur (Pesticide Analytical Laboratory and On-station) Entomology Division)
1319.	Determination of pre-harvest interval for Emamectin Benzoate, Voliam flexi, Fenvalerate, Fenitrothion and Carbosulfan in major vegetables	<ul style="list-style-type: none"> To determine the pre-harvest interval (PHI) for Emamectin benzoate, Voliam flexi, Fenvalerate and Carbosulfan in cauliflower, cabbage, country bean, yard long bean, brinjal, chilli and red amaranth. 	Gazipur (Pesticide Analytical Laboratory and On-station) Entomology Division)
1320.	Determination of thiamethoxam residue in selected vegetables under supervised field trial using LC-MS/MS.	<ul style="list-style-type: none"> To determine residue level of thiamethoxam in brinjal, cauliflower and cabbage. 	Gazipur (Pesticide Analytical Laboratory and On-station) Entomology Division)
1321.	Study on residue degradation of newly registered along with some commonly used insecticide groups in selected vegetables under supervised field trial	<ul style="list-style-type: none"> To determine the rate of degradation of residue level of Emamectin benzoate, Voliam flexi (Thiamethoxam + Chlorantraniliprole), Fenitrothion, Carbosulfan and carbofuran in chilli, bitter gourd, bean, brinjal, cauliflower and cabbage. 	Gazipur (Pesticide Analytical Laboratory and On-station) Entomology Division)
1322.	Quantification of pesticide residue load in major vegetables collected from different regions of Bangladesh.	<ul style="list-style-type: none"> To detect and quantify the amount of left-over residue of pesticide in different vegetable samples collected from local market of different regions of Bangladesh. 	Gazipur (Pesticide Analytical Laboratory and On-station) Entomology Division)
1323.	Determination of multiple pesticide residues in milk collected from different markets of Bangladesh.	<ul style="list-style-type: none"> To develop and validate an analytical method for the analysis of pesticide residues in milk and To monitor pesticide residues in milk collected from different markets of Bangladesh. 	Gazipur (Pesticide Analytical Laboratory and On-station) Entomology Division)
1324.	Determination of multiple pesticide residues in carrot, capsicum, green chilli, lettuce leaf and coriander leaf collected from	<ul style="list-style-type: none"> To develop and validate an analytical method for the analysis of commonly used pesticides in carrot, capsicum, green chilli, lettuce leaf and coriander leaf using QuEChERS Extraction and Gas Chromatography and 	Gazipur (Pesticide Analytical Laboratory and On-station) Entomology Division)

Sl. No.	Research Title	Major Objective (s)	Location (s)
	different markets of Bangladesh.	<ul style="list-style-type: none"> To monitor pesticide residues in carrot, capsicum, green chilli, lettuce leaf and coriander leaf collected from different regions of Bangladesh. 	
1325.	Monitoring of pesticide residues in betel leaf collected from different regions of Bangladesh.	<ul style="list-style-type: none"> To develop and validate an analytical method for the analysis of pesticide residues in betel leaf and To monitor pesticide residues in betel leaf samples collected from different regions of Bangladesh. 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
1326.	Determination of multiple pesticide residues in major fruits collected from different locations of Bangladesh.	<ul style="list-style-type: none"> To develop and validate an analytical method for the analysis of commonly used pesticides in Mango, Litchi, Ber and Guava using QuEChERS Extraction and Gas Chromatography and To monitor pesticide residues in Mango, Litchi, Ber and Guava collected from different regions of Bangladesh. 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
1327.	Validation of a method for estimation of organophosphorus pesticides residue in marketed dry fish	<ul style="list-style-type: none"> To develop and validate a method for residue analysis of some selected pesticides in dry fish using Gas-chromatography and To detect and quantify the pesticide residue levels in the marketed dry fish 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
1328.	Validation of a method for estimation of Organophosphorus and Organochlorine pesticides residue in marketed herbal medicine	<ul style="list-style-type: none"> To develop and validate an appropriate method for residue analysis of some selected pesticides in herbal medicine using Gas-chromatography and--To detect and quantify the pesticide residue levels in marketed herbal medicine 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
1329.	Validation of a method for estimation of pesticides residue in marketed spices (Chilli, ginger and turmeric)	<ul style="list-style-type: none"> To develop an appropriate method for residue analysis of some Organophosphorus and Organochlorine pesticides in different spices (chilli, ginger and turmeric) by using Gas-chromatography Mass spectrometry (GC-MS) and To detect and quantify the pesticide residue levels in marketed spices (Chilli, ginger and turmeric) 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
1330.	Decontamination of some organophosphorus pesticide residues in tomato	<ul style="list-style-type: none"> To develop a validated method for residue analysis of some OP pesticides in tomato by using Gas-chromatography, Electron Captured Detector and To quantify the amount of residue reduced through washing with different 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)

Sl. No.	Research Title	Major Objective (s)	Location (s)
		solution in different concentration and in boiling condition.	
1331.	Decontamination of some organophosphorus pesticide residues in guava	<ul style="list-style-type: none"> To develop a validated method for residue analysis of some selected pesticides in guava using Gas-chromatography and To quantify the amount of residue reduced through washing with different solutions in different concentrations and peeling. 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
1332.	Testing the purity of different marketed pesticides	<ul style="list-style-type: none"> To quantify the active ingredient present in different marketed brands of selected insecticide groups and To understand the purity level of different formulated products of different pesticide group 	Gazipur (Pesticide Analytical Laboratory and On –station) Entomology Division)
ON-FARM RESEARCH DIVISION (On-Farm Soil Fertility Management)			
1333.	Development of fertilizer recommendation for four crop-based Potato-Boro rice-Yard long bean-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To develop an optimum fertilizer dose for higher productivity and profitability at Mymensingh region To increase total productivity and farmers income 	Gouripur, Mymensingh
1334.	Effect of fertilizer application methods on Maize grown under strip tillage system in High Barind Tract	<ul style="list-style-type: none"> To find out the best application methods for fertilizer application in RCT system for maize cultivation 	Godagari, Rajshahi
1335.	Nutrient management of Betel nut	<ul style="list-style-type: none"> To find out optimum fertilizer dose for betel nut To increase production and farmers' income 	Barisal, Sadar and Daulatkhan, Bhola
1336.	Effect of different fertilizer management packages on yield of Soybean in Chandpur	<ul style="list-style-type: none"> To see the performance of different fertilizer packages on yield of soybean. Location: Hanachar, Sadar Upazilla and Haimchar Upazilla, Chandpur	
1337.	Effect of liming on flowering, fruit set, fruit retention, yield and quality of Lotkon	<ul style="list-style-type: none"> To observe the effectiveness of liming on flowering, fruit set, fruit retention, yield and quality of Lotkon and To observe phosphorous uptake as affected by liming. 	Narsingdi
1338.	Determination of suitable zinc fertilizer dose for Maize production in char areas of Gaibandha	<ul style="list-style-type: none"> To find out the optimum dose of zinc for Maize and To increase the maize productivity in char areas 	Saghata, Gaibandha
1339.	Development of fertilizer package for Chilli	<ul style="list-style-type: none"> To determine the optimum fertilizer dose for Chilli production and 	Saghata, Gaibandha

Sl. No.	Research Title	Major Objective (s)	Location (s)
	production in char areas of Gaibandha	<ul style="list-style-type: none"> To increase farmers income 	
1340.	Development of fertilizer package for Bitter gourd production in charland	<ul style="list-style-type: none"> To find out a suitable fertilizer package for bitter gourd in charland condition and To increase farmers income 	Kurigram
1341.	Effect of vermi--compost and tricho-compost on Tomato production	<ul style="list-style-type: none"> To find out optimum dose of vermicompost and trichocompost for tomato production. To increase farmers income 	Rangpur
1342.	Effect of Zn on Lentil production in charland ecosystems	<ul style="list-style-type: none"> To evaluate the response of lentil to Zn fertilization and To find out a suitable dose of Zn for the maximization of lentil yield in charland condition 	Ulipur, Kurigram
1343.	Effect of fertilizer dose on Sweet gourd in charland ecosystems	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for sweet gourd and To increase crop productivity and farmers income 	Chilmary
1344.	Effect of fertilizer dose on Onion in charland ecosystem	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for onion and To increase crop productivity and farmers income 	Chilmary
1345.	Effect of Vermicompost on Garlic in charland ecosystem	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for garlic and To increase crop productivity and farmers income 	Chilmary
1346.	Effect of lime and fertilizer management on yield of Maize in acidic soil of Sylhet region	<ul style="list-style-type: none"> To find the optimum lime and fertilizer dose for maximizing the yield of maize. 	Sylhet
1347.	Effect of rice straw incorporation on yield of Mustard	<ul style="list-style-type: none"> To see the effect of rice straw height and rice residue burn on yield and profitability of mustard 	Shaesthagonj (MLT)
1348.	Effect of fertilizer doses on Turmeric at Modhupur Tract	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for Turmeric and To increase productivity and economic return of farmers 	Modhupur, Tangail
1349.	Integrated nutrient management for Bitter gourd cultivation in calcareous soil	<ul style="list-style-type: none"> To determine suitable nutrient package for bitter gourd and To increase sustainable yield of bitter gourd 	Sholakundu, Sadar, Faridpur
1350.	Development of fertilizer package for Maize at charland condition	<ul style="list-style-type: none"> To find out the optimum fertilizer package for maize and To increase crop productivity and farmers income 	Charland of Sariakandi and Dhunut.

Sl. No.	Research Title	Major Objective (s)	Location (s)
1351.	Integrated nutrient management for Pointed gourd	<ul style="list-style-type: none"> To find out a suitable combination of organic and inorganic fertilizers and To increase maximum yield of pointed gourd 	Gabtoli, Bogura
1352.	Integrated Nutrient Management on Foxtail millet in Coastal region of Bangladesh	<ul style="list-style-type: none"> To assess the effects of organic and inorganic fertilizer on Foxtail millet yields and To increase soil fertility and sustain soil productivity 	Patuakhali
1353.	Effect of fertilizer dose and variety on the yield of Chilli at charland	<ul style="list-style-type: none"> increasing yield of Chilli at charland To increase economic return of farmers 	Bhuapur, Tangail
1354.	Effect of liming on Mukhikachu	<ul style="list-style-type: none"> To find out an optimum dose of lime for the cultivation of Mukhikachu at Mymensingh region and To increase yield and farmers' income 	Phulbaria, Mymensingh
1355.	Minimization of soil salinity through biomass incorporation in Legume Crops-Fallow-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To determine the changes in soil salinity and other soil physical properties before and after incorporation of green manuring crop and To increase crop productivity 	Noakhali
1356.	Development of fertilizer package for Garlic-Maize-T. Aman rice cropping pattern in the charland	<ul style="list-style-type: none"> To develop cropping system-based fertilizer dose for charland and To increase crop productivity and sustain soil health 	Ulipur
1357.	Development of fertilizer package for Foxtail millet at charland	<ul style="list-style-type: none"> To find out the optimum fertilizerpackage for foxtail millet and To increase crop productivity and farmers income 	Ulipur, Chilmari, Kurigram
1358.	Effect of lime and fertilizer management on yield of Bushbean and Groundnut in acidic soil	<ul style="list-style-type: none"> To find out the optimum and economic dose of lime and fertilizers to maximize the yield of bush bean and ground nut. 	Zakigonj and Sunamganj and Jalalpur (FSRD)
1359.	Response of Potato to fertilizer doses at charland	<ul style="list-style-type: none"> To find out an optimum and economically viable fertilizer dose for growing potato in the charlands 	Dicrir Char, Sadar, Faridpur
1360.	Effect of nutrient management on yield of Bt Brinjal in Faridpur	<ul style="list-style-type: none"> To determine an appropriate dose of fertilizer s for Bt brinjal and To increase economic return of farmers in Faridpur region 	Rajbari and Madaripur (FSRD and MLT)
1361.	Evaluation of nutrient management approaches for Mustard- Boro-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To evaluate different nutrient management approaches for the pattern and To find out a cropping pattern based economically viable fertilizer dose for Pabna area. 	Atghoria, Pabna (MLT)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1362.	Development of fertilizer management package for Onion	<ul style="list-style-type: none"> To find out the optimum fertilizers package for onion cultivation To increase the yield and economic return 	Sujanagar (MLT)
1363.	Development of fertilizer recommendation for Mukhikachu production in AEZ 11	<ul style="list-style-type: none"> To find out optimum fertilizer dose for high yield of Mukhikachu To increase crop productivity and economic return 	Paba, Rajshahi (MLT)
1364.	Effect of fertilizer doses with elevated levels of potassium on soil salinity and yield of Transplanted Maize	<ul style="list-style-type: none"> To determine appropriate dose of fertilizer for transplanted maize To test the effectivity of higher dose of K in minimizing salinity damage to the crop To find out the yield performance in response to fertilizer application in coastal area. 	Amtoli and Kuakata (MLT)
1365.	Effect of fertilizer dose on Onion, Lentil and Pumpkin in charland ecosystem	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for onion, lentil and pumpkins. To increase crop productivity and farmers income 	Chilmary, Kurigram
1366.	Effect of different fertilizer management on the performance of BARI Bt Brinjal	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for BARI Bt Begun 	Barind Shyampur, Pabna Bogra and Rangpur
1367.	Development of fertilizer package for Potato-Groundnut-T. Aman rice cropping pattern under stable charland condition	<ul style="list-style-type: none"> To develop cropping system-based fertilizer dose for charland. To increase crop productivity and sustain soil health 	Lalmonirhat
1368.	Development of fertilizer management package for Garlic under zero tillage condition	<ul style="list-style-type: none"> To find out the optimum fertilizers dose for garlic under zero tillage condition To increase the yield and economic return 	Atghoria (MLT)
1369.	Integrated nutrient management on the yield and quality of Banana	<ul style="list-style-type: none"> To know the effect of organic (vermicompost) and inorganic fertilizer on fruit quality and yield of banana 	Jalalpur (FSRD) and Moulvibazar (MLT)
1370.	Effect of lime and fertilizer management on the growth and yield of Mukhikachu in acidic soils of Sylhet region	<ul style="list-style-type: none"> To find out the economic dose of lime and optimum dose of fertilizer for the production of mukhikachu under acidic soil. 	Moulvibazar and Madhobpur (MLT)
1371.	Effect of different fertilizer doses on Sesame in charland condition	<ul style="list-style-type: none"> To find out the proper nutrient management packages of sesame in charland To increase production and farmer's income 	Charland of Kushtia, Tangail and Rangpur
1372.	Effect of Integrated Nutrient Management (INM) on Cabbage in Gazipur Sadar	<ul style="list-style-type: none"> To evaluate the effect of integrated nutrient management on cabbage. 	Dhirashram, Gazipur (MLT)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1373.	Effect of planting system and fertilizer of Onion bulb production under zero tillage condition	<ul style="list-style-type: none"> To find out suitable planting system and fertilizer dose for increasing bulb yield of onion 	Shariatpur and Madaripur (MLT)
Improvement of Cropping Systems			
1374.	Validation of four crop-based cropping pattern Mustard-Vegetables-T. Aus-T. Aman rice against farmers existing pattern	<ul style="list-style-type: none"> To develop a new cropping pattern for increasing cropping intensity and fallow land utilization 	Habigonj (MLT)
1375.	Development of Mustard-Summer Vegetables-Jute cropping pattern against Mustard-Fallow-Jute cropping pattern	<ul style="list-style-type: none"> To develop an economically viable cropping pattern by inclusion of summer vegetable in mustard jute cropping pattern To increase cropping intensity and maximize farmers income 	Netrakona
1376.	Development of Bitter gourd/Ash gourd/Cucumber-Mungbean-T. Aman rice cropping pattern against Bitter gourd/Ash gourd/Cucumber-Fallow-T. Aman rice	<ul style="list-style-type: none"> To improve the existing cropping pattern by inclusion of Mungbean To increase cropping intensity and farmers income 	Mukttagacha Mymensingh
1377.	Development of alternate cropping patterns Sorghum-Fallow-T. Aman against existing Fallow-Fallow-T. Aman rice cropping pattern in Saline Char Areas	<ul style="list-style-type: none"> To improve the existing cropping pattern for increasing productivity as well as cropping intensity To increase farmers' income by utilizing saline fallow lands 	Companiongonj and Subarnochar Noakhali
1378.	Development of improved cropping pattern Garden pea -Boro-T. Aman rice against existing cropping pattern T. Aman-Fallow-Boro rice at Sherpur region	<ul style="list-style-type: none"> To improve the existing cropping pattern by inclusion of Motorshuti To increase soil health and cropping intensity To maximize farmers income 	Sherpur
1379.	Development of Groundnut-T. Aus -T. Aman rice cropping pattern against Groundnut – Fallow-T. Aman in coastal area	<ul style="list-style-type: none"> To introduce new modern groundnut varieties in coastal area To increase cropping intensity and To increase productivity and farmers income 	Amtoli, Kuakata and Bauphal (MLT)
1380.	Development of alternate cropping pattern Wheat-Mungbean-T. Aman rice against Wheat-Fallow-T. Aman rice	<ul style="list-style-type: none"> To improve the existing cropping pattern for increasing cropping intensity and productivity by inclusion of Mungbean and 	Raniganj, Sadar Dinajpur (MLT)

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To increase crop yield and farmers' income 	
1381.	Development of alternate cropping pattern Maize-Mungbean-T. Aman rice against Maize-Fallow-T. Aman rice	<ul style="list-style-type: none"> To improve the existing cropping pattern for increasing cropping intensity and productivity by inclusion of Jute and To increase crop yield and farmers' income 	Pirganj, Thakurgaon (MLT)
1382.	Development of Maize-Jute-Fallow cropping pattern against existing Fallow-Boro- Fallow cropping pattern in upper catena of haor area	<ul style="list-style-type: none"> To develop two crops-based cropping patterns for haor areas. To increase cropping intensity, total productivity and economic return 	Nikli Kishoreganj
1383.	Development of Blackgram-Boro-Fallow cropping pattern against existing Fallow-Boro-Fallow cropping pattern in upper catena of Haor area	<ul style="list-style-type: none"> To develop two crop-based cropping patterns for haor areas. To increase cropping intensity, productivity and economic return 	Nikli, Kishoreganj
1384.	Development of Foxtail Millet-Fallow-T. Aman rice cropping pattern against Fallow-Fallow T. Aman rice cropping pattern	<ul style="list-style-type: none"> To introduce Foxtail Millet in coastal ecosystem To increase cropping intensity in coastal region To increase productivity and farmers income 	Amtali, Bogurna and Kuakata, Patuakhali (MLT)
1385.	Development of Watermelon-Fallow-T. Aman rice cropping pattern against Fallow-Fallow-T. Aman rice cropping pattern in the coastal area	<ul style="list-style-type: none"> To validate and disseminate the technology watermelon relaying with T. Aman to the farmers level. To increase production and farmers income with utilize the fallow land. 	Chakaria and Cox's Bazar sadar
1386.	Improvement of Cropping pattern with Bitter gourd-Fallow- T. Aman rice against farmers existing pattern Fallow-Fallow-T. Aman rice in coastal area of Bangladesh	<ul style="list-style-type: none"> To improve cropping intensity To increase economic return of farmers 	Chakaria and Cox's Bazar sadar
1387.	Validation of Wheat-based cropping pattern at farmers field in Charland, Jamalpur	<ul style="list-style-type: none"> To evaluate the on station selected cropping pattern at farmer's field in Charland, Jamalpur To increase cropping intensity Popularize the pattern to the farmers 	Melandah, Jamalpur (MLT)
1388.	Development of four crop-based cropping pattern against existing Vegetable-Vegetable-T.	<ul style="list-style-type: none"> To see the agro-economic performance of alternate cropping pattern compared to existing pattern. 	Phulpur /Trishal, Mymensingh

Sl. No.	Research Title	Major Objective (s)	Location (s)
	Aman rice cropping pattern	<ul style="list-style-type: none"> To increase productivity and profitability 	
1389.	Development of Soybean-T. Aus -T. Aman rice cropping pattern against Soybean-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To develop an economically viable cropping pattern by inclusion of T. Aus rice in the pattern and To increase cropping intensity and productivity 	Trishal, Mymensingh
1390.	Development of alternate cropping pattern Maize-Mungbean-T. Aman rice against Maize-Fallow-T. Aman rice	<ul style="list-style-type: none"> To improve the existing cropping pattern for increasing cropping intensity and productivity by inclusion of Jute and To increase crop yield and farmers' income 	Pirganj, Thakurgaon (MLT)
1391.	Development of Maize-Jute-Fallow cropping pattern against existing Fallow-Boro- Fallow cropping pattern in upper catena of haor area	<ul style="list-style-type: none"> To develop two crops-based cropping patterns for haor areas. To increase cropping intensity, total productivity and economic return 	Nikli, Kishoreganj
1392.	Development of Blackgram-Boro-Fallow cropping pattern against existing Fallow-Boro-Fallow cropping pattern in upper catena of Haor area	<ul style="list-style-type: none"> To develop two crop-based cropping patterns for haor areas. To increase cropping intensity, productivity and economic return 	Nikli, Kishoreganj
1393.	Development of Foxtail Millet-Fallow-T. Aman rice cropping pattern against Fallow-Fallow T. Aman rice cropping pattern	<ul style="list-style-type: none"> To introduce Foxtail Millet in coastal ecosystem To increase cropping intensity in coastal region To increase productivity and farmers income 	Amtali, Bogurna and Kuakata, Patuakhali (MLT)
1394.	Development of Watermelon-Fallow-T. Aman rice cropping pattern against Fallow-Fallow-T. Aman rice cropping pattern in the coastal area	<ul style="list-style-type: none"> To validate and disseminate the technology watermelon relaying with T. Aman to the farmers level. To increase production and farmers income with utilize the fallow land. 	Chakaria and Cox's Bazar sadar
1395.	Improvement of Cropping pattern with Bitter gourd-Fallow- T. Aman rice against farmers existing pattern Fallow-Fallow-T. Aman rice in coastal area of Bangladesh	<ul style="list-style-type: none"> To improve cropping intensity To increase economic return of farmers 	Chakaria and Cox's Bazar sadar
1396.	Validation of Wheat-based cropping pattern at	<ul style="list-style-type: none"> To evaluate the on station selected cropping pattern at farmer's field in Charland, Jamalpur 	Melandah, Jamalpur (MLT)

Sl. No.	Research Title	Major Objective (s)	Location (s)
	farmers field in Charland, Jamalpur	<ul style="list-style-type: none"> To increase cropping intensity Popularize the pattern to the farmers 	
1397.	Development of four crop-based cropping pattern against existing Vegetable-Vegetable-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To see the agro-economic performance of alternate cropping pattern compared to existing pattern. To increase productivity and profitability 	Phulpur /Trishal, Mymensingh
1398.	Development of Soybean-T. Aus -T. Aman rice cropping pattern against Soybean-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To develop an economically viable cropping pattern by inclusion of T. Aus rice in the pattern and To increase cropping intensity and productivity 	Trishal, Mymensingh
1399.	Development of cropping pattern Blackgram/Grass Pea-Jute-T. Aman rice against existing cropping pattern Grass pea-T. Aman in charland	<ul style="list-style-type: none"> To develop a four crops-based cropping pattern for charland areas and To increase cropping intensity, total productivity and economic return 	Chilmari, Kurigram.
1400.	Development of alternate cropping pattern Potato-Boro-T. Aus-T. Aman rice against Potato-Boro-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To develop a four crops-based cropping pattern against existing three crops-based Potato-Boro-T. Aman rice cropping pattern and To increase productivity and profitability 	Joypurhat
1401.	Development of alternate cropping pattern Potato/Sweet gourd-T. Aus -T. Aman rice against Potato- Boro- T. Aman rice cropping pattern	<ul style="list-style-type: none"> To increase cropping intensity through inclusion of new crops in the existing cropping pattern and To increase total productivity and farmers' income. 	Gabtoli, Bogura (Korotoa Bangali flood plain AEZ-4)
1402.	Development of four crop-based cropping pattern Potato/Maize- T. Aus -T. Aman rice against Potato-Boro-T. Aman rice	<ul style="list-style-type: none"> To see the agro-economic performance of the alternate cropping pattern Potato/Maize - T. Aus rice- T. Aman rice and To increase the productivity and profitability as well as to conserve ground water 	Sherpur and Bogura (MLT)
1403.	Development of alternate cropping pattern Potato-Maize+ Coriander/ Spinach- T. Aman rice against Potato- Maize - T. Aman rice	<ul style="list-style-type: none"> To utilize the gaps between the two lines of maize in the seedling stage and To increase production and economic return of the farmers 	Daudkandi Chandina Cumilla (MLT)
1404.	Development of alternate cropping pattern Garlic/Brinjal - T. Aman rice against Garlic-Maize-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To find out the agro-economic performance of the alternate cropping pattern and To increase productivity and profitability 	Shibpur, Rajshahi (MLT)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1405.	Development of alternate cropping pattern Lentil-Maize-T. Aman rice against Lentil-Jute-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To compare the productivity and profitability of proposed alternate cropping pattern with existing one 	Paba, Rajshahi (MLT)
1406.	Development of alternate cropping pattern Vegetable-Boro rice-T. Aman rice against Vegetable-Fallow-T. Aman rice in Narsingdi	<ul style="list-style-type: none"> To see agro-economic performance of the alternate cropping pattern and To increase economic return of farmers 	Shibpur Narsingdi.
1407.	Development of alternate cropping pattern late Tomato-T. Aus- T. Aman rice against Late Tomato-Fallow-T. Aman rice	<ul style="list-style-type: none"> To increase cropping intensity by introducing T. Aus rice in a cropping pattern and To increase total productivity and farmers' income 	Sadar Dinajpur
1408.	Development of productive cropping pattern in Bhola	<ul style="list-style-type: none"> To fit maize or mungbean in the existing Potato-Fallow-T. Aman rice cropping pattern and To increase system productivity as well as farmers' income 	Bhola Sadar Bhola
1409.	Development of alternate cropping pattern Sunflower-T. Aus-T. Aman rice against existing pattern Relay Cowpea-Fallow- T. Aman rice in the Southern coastal region	<ul style="list-style-type: none"> To establish sunflower as an alternate crop of relay cowpea in the Southern coastal region and To increase total productivity and farmers' income 	Bauphal, Amtali and Kuakata
1410.	Development of alternate cropping pattern Maize-T. Aus-T. Aman rice against Boro -Fallow-T. Aman rice	<ul style="list-style-type: none"> To introduce Maize and T. Aus rice in the cropping pattern and To increase cropping intensity and productivity 	Kaliganj Jhenidah Kaliganj and Jhenidah (MLT)
1411.	Development of alternate cropping pattern Field pea-Boro-T. Aus -T. Aman rice against Mustard-Boro-T. Aman rice	<ul style="list-style-type: none"> To study the comparative performance of alternate cropping pattern compared to existing cropping pattern and To increase cropping intensity, productivity and farmers' income 	Jhikargacha, Jessore (MLT)
1412.	Development of alternate cropping patterns Proso Millet-Fallow-T. Aman rice and Safflower-Fallow-T. Aman rice against existing Fallow-Fallow-T. Aman rice cropping pattern in saline char areas	<ul style="list-style-type: none"> To improve the existing cropping pattern for increasing productivity as well as cropping intensity and To increase farmers' income by utilizing saline fallow lands 	Companiononj and Subarnochar, Noakhali

Sl. No.	Research Title	Major Objective (s)	Location (s)
1413.	Improvement of Lentil-Sesame-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To improve the existing cropping pattern by including modern crop varieties and To increase crop yield and economic return 	Kushtia
1414.	Development of cropping pattern Potato/Maize-Groundnut against Potato-Maize-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To increase productivity and profitability through improved cropping pattern and To make availability of quality seed of groundnut for rabi season at farmers level 	Kaunia, Rangpur and Rajarhat, Kurigram
1415.	Development of cropping pattern Onion + Groundnut/Jute-Fallow against Onion-Jute-Fallow in charland area	<ul style="list-style-type: none"> To compare the productivity of the pattern over the existing one and to increase farmers income 	Ulipur, Kurigram (Stable Char land)
1416.	Development of alternate cropping pattern Potato-Maize-T. Aman rice against Maize – Fallow - T. Aman in Charland area	<ul style="list-style-type: none"> To increase cropping intensity through alternate cropping pattern To increase farmers income through improved pattern 	Lalmonirhat, Saghata Sundarganj and Gobindaganj, Gaibandha
1417.	Development of Wheat-Grain legume-T. Aman rice cropping pattern against Wheat-Fallow-T. Aman rice in Barind area	<ul style="list-style-type: none"> To compare the productivity of the proposed patterns over the existing one To increase cropping intensity 	Sapahar, Naogoan (MLT)
1418.	Development of Lentil-Sesame -T. Aman rice cropping pattern against Wheat –Fallow -T. Aman rice in Barind area	<ul style="list-style-type: none"> To increase productivity and cropping intensity through improve cropping pattern in Barind area 	Amnura, Chapai Nawabganj (MLT)
1419.	Development of alternate cropping pattern Blackgram + Groundnut-Groundnut + B. Aman rice against Blackgram–Groundnut + B. Aman cropping pattern under charland of Faridpur	<ul style="list-style-type: none"> To develop alternate cropping pattern against existing cropping pattern To increase cropping intensity as well as income of the farmers 	Dicrir char, Faridpur Sadar, Faridpur
1420.	Development of vegetables-based cropping pattern in Narsingdi	<ul style="list-style-type: none"> To increase the cropping intensity and farmers income through vegetable-based cropping pattern To popularize the vegetable-based cropping pattern 	Shibpur, Narsingdi
1421.	Development of Foxtail Millet-Jute-T. Aman rice cropping pattern against	<ul style="list-style-type: none"> To develop a high yield potential alternate pattern over the existing one. 	Fulchhari and Saghata Gaibandha

Sl. No.	Research Title	Major Objective (s)	Location (s)
	Millet-Fallow-T. Aman rice in the Old Brahmaputra Floodplain chars of Gaibandha	<ul style="list-style-type: none"> To increase the resource use efficiency in the char land condition. 	
1422.	Development of alternate cropping pattern Wheat-Fallow-T. Aman rice against Fallow-Fallow-T. Aman rice in the coastal area of Koyra, Khulna	<ul style="list-style-type: none"> To establish alternate cropping pattern against farmers' existing cropping pattern in coastal area. To increase farmers' income. 	Koyra, Khulna
1423.	Development of alternate cropping pattern Mustard-T. Aus-T. Aman rice against Fallow-T. Aus-T. Aman rice cropping pattern under AEZ 20	<ul style="list-style-type: none"> To develop alternate cropping pattern against existing cropping pattern and To increase cropping intensity as well as income of the farmers 	Jalalpur, Sylhet (FSRD), and Moulvibazar and Zokiganj (MLT)
1424.	Improvement of existing Fallow-Boro rice cropping pattern through Mustard and Potato in Haor area of Kishoreganj	<ul style="list-style-type: none"> To introduce potato or mustard in fallow-Boro-fallow cropping sequence in haor area and To increase the crop production and economic return 	Goroy, Nikli Kishoreganj
1425.	Development of Garden pea-Boro-T. Aman rice cropping pattern against Fallow-Boro-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To increase productivity and cropping intensity and To Utilize fallow land by introducing garden pea 	Trishal / Char Kharicha, Sadar Mymensingh
1426.	Development of alternate Wheat-Mungbean-T. Aman rice cropping pattern against existing Wheat-Fallow-T. Aman rice	<ul style="list-style-type: none"> To improve the existing cropping pattern by inclusion of mungbean To increase soil health and cropping intensity and To maximize farmers income 	Nakla, Sherpur
1427.	Development of Cucumber-Jute-T. Aman rice cropping pattern against existing Fallow-Jute-T. Aman rice	<ul style="list-style-type: none"> To improve the existing cropping pattern by inclusion of Cucumber and To increase cropping intensity and farmers income 	Nakla, Sherpur
1428.	Development of Potato-Red amaranth-Boro - Cucumber-T. Aman rice cropping pattern against Boro-T. Aman rice cropping pattern	<ul style="list-style-type: none"> To develop an economically viable cropping pattern by inclusion red amaranth and cucumber/yard long bean To increase cropping intensity as well maximize farmers income 	Gouripur Mymensingh
B. Intercropping			
1429.	Intercropping Lalshak and Marashak (Patshak) with Maize	<ul style="list-style-type: none"> To develop intercropping system of Lalshak and Marashak with maize in Kharif-I. 	Munsirhat, Thakurgaon (MLT)

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To derive the benefits of intercropping in terms of yield and return for the farmers 	
1430.	Intercropping of Mungbean with Mukhikachu	<ul style="list-style-type: none"> To find out the most suitable intercrop combination of mungbean with mukhikachu To increase productivity and farmers' income. 	Phulpur/ Fulbaria, Mymensingh
1431.	Intercropping of Foxtail millet with Groundnut in the charland	<ul style="list-style-type: none"> To find out the suitable combination of foxtail millet and groundnut under intercropping system. To increase yield and economic return 	Ulipur and Chilmari (MLT)
1432.	Intercropping of cucurbit vegetables with Bushbean in Sylhet region	<ul style="list-style-type: none"> To find out the cucurbit(s) suitable intercrop combination for increasing yield and economic return. 	Zakigonj (MLT)
1433.	Intercropping of short duration vegetables with Sweet Potato in Sylhet region	<ul style="list-style-type: none"> To find out the suitable intercrop combination for increasing total productivity and profitability 	All MLT and FSRD site
1434.	Intercropping of Cabbage with Brinjal	<ul style="list-style-type: none"> To find out the optimum population of cabbage as intercrop with brinjal To increase total productivity and economic return. 	Shibpur, Narsingdi
1435.	Intercropping of vegetables with Chilli in Southern region of Bangladesh	<ul style="list-style-type: none"> To find out the suitable intercrop combination for higher productivity and economic return To increase cropping intensity in the coastal area 	Kuakata and Bauphal
1436.	Feasibility study on intercropping of different crops with Pineapple	<ul style="list-style-type: none"> To find out the suitable intercrop with pineapple To maximize land utilization, increase productivity and economic returns 	Modhupur and Ghatail, Tangail (MLT)
1437.	Intercropping of Onion and Chilli at charland of Mymensingh	<ul style="list-style-type: none"> To select a suitable spacing for chilli for maximizing the yield of chilli-onion intercropping system To increase yield and income of farmers 	Mymensingh sadar
1438.	Improvement of existing Turmeric + Chilli + Brinjal intercropping system through inclusion of Papaya and creeper vegetables	<ul style="list-style-type: none"> To make the existing mixed cropping system more productive. To increase farmers' income 	Gongarampur, Pabna (FSRD)
Mixed Cropping			
1439.	Effect of seed rate of Mustard and Cowpea mixed cropping in Bhola	<ul style="list-style-type: none"> To verify the agro-economic performance of mixed cropping of mustard with cowpea and To ensure the maximum utilization of land for higher yield and economic return 	Sadar and Daulatkhan, Bhola

Sl. No.	Research Title	Major Objective (s)	Location (s)
1440.	Mixed-cropping of Black cumin with Groundnut at the charland of Tangail	<ul style="list-style-type: none"> To find out the most suitable intercropping combination To increase yield and economic return of farmers 	Bhuapur, Tangail (MLT)
Relay Cropping			
1441.	Performance of relaying Cowpea with T. Aman rice for fallowland utilization in the coastal area	<ul style="list-style-type: none"> To test the performance of cowpea for fallow land utilization and To see economic return and farmers reaction 	Chakaria and Cox's Bazar sadar
1442.	Relay Cucurbit vegetables with Tomato and Potato at Tangail Region	<ul style="list-style-type: none"> To find out the suitable relay cropping system of cucurbit vegetables with tomato and To increase the production and economic return of the farmers 	Atia, Deldhur (FSRD) and Modhupur, Tangail (MLT)
1443.	Performance of Mustard varieties as relay crop with B. Aman rice in Cumilla Region	<ul style="list-style-type: none"> To see the performance of mustard varieties as relay crop with B. Aman 	Chandina and Muradnagar, Cumilla
1444.	Performance of Wheat varieties as relay crop with B. Aman rice in Cumilla Region	<ul style="list-style-type: none"> To see the performance of garlic varieties as relay crop with B. Aman rice. 	Muradnagar, Cumilla
1445.	Performance of Potato/Brinjal relay cropping under Potato/Brinjal-T. Aman rice cropping pattern at charland of Sherpur	<ul style="list-style-type: none"> To increase cropping intensity and To increase yield and income of the farmers 	Sherpur
1446.	Determination of optimum sowing time for Jute seed relay with Onion bulb production	<ul style="list-style-type: none"> To find out the optimum jute seed sowing time before harvest of onion as relay 	Saltha, Faridpur
1447.	Effect of sowing time on the performance of Coriander as relay crop with T. Aman rice	<ul style="list-style-type: none"> To see the performance of coriander varieties as relay crop with T. Aman rice and To find out a suitable sowing date of coriander as relay crop with T. Aman 	Chandina and Debidwer of Cumilla (MLT)
1448.	Performance of Lentil under relay with T. Aman rice	<ul style="list-style-type: none"> To verify the agro-economic performance of lentil as relay crop with T. Aman rice in Bhola and To ensure higher productivity and economic return 	Sadar and Daulatkhan, Bhola
1449.	Performance of Grass pea varieties relaying with T. Aman rice in Bhola	<ul style="list-style-type: none"> To evaluate the performance of BARI released grasspea varieties as relay crop with T. Aman rice and 	Sadar, Daulatkhan and Charfashion, Bhola

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To increase grasspea yield and farmers' income 	
1450.	Performance of Field pea varieties as relay crop with T. Aman rice	<ul style="list-style-type: none"> To evaluate the performance of field pea varieties as relay crop with T. Aman rice and To increase yield of field pea and farmers' income 	Jhikargacha, Jessore and Tularampur, Narail (MLT)
1451.	Performance of Grass pea varieties as relay with T. Aman rice in low lying areas	<ul style="list-style-type: none"> To evaluate the performance of BARI khesari varieties as relay crop To increase farmers' income 	Tularampur, Narail (MLT)
1452.	Performance of BARI Pea varieties relaying with T. Aman rice	<ul style="list-style-type: none"> To find out the suitable pea varieties for relay cropping and To popularize BARI released pea varieties for relay cropping among the farmers and increase their income. 	Atghoria, Pabna (MLT)
1453.	Performance of Garden pea relay with T. Aman rice in Bhola	<ul style="list-style-type: none"> To verify the agro-economic performance of relay garden pea in Bhola To introduce conservation agricultural practice and To ensure higher yield and economic return from garden pea 	Sadar, Daulatkhan and Charfashion
1454.	Performance of Relaying of Yard long bean with Maize	<ul style="list-style-type: none"> To evaluate the performance of BARI released yard long bean To identify the optimum relaying date of yard long bean with maize and To minimize the cost of cultivation 	Bandarban sadar
1455.	Relay cropping of Panikachu with Potato in Tangail	<ul style="list-style-type: none"> To find out the most suitable combination of panikachu with potato and To increase yields and economic return of farmers 	Elenga, Tangail (FSRD)
1456.	Performance of relay crops in the rice-based cropping system of coastal saline char area	<ul style="list-style-type: none"> To verify the agronomic and economic performance of different relay cropping in various soil salinity level (i.e. S₂:4.1-8 dS/m, S₃:8.1-12 dS/m, S₄:12.1- 16 dS/m) and To ensure the maximum utilization of the land for higher yield and economic return. 	Noakhali (FSRD)
E. Component Technologies			
1457.	Effect of planting date on yield of Gladiolus varieties	<ul style="list-style-type: none"> To find out the optimum planting time and suitable variety and To increase the productivity and economic return of farmers 	Atia, Tangail (FSRD)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1458.	Weed management options for dry direct seeded Aus rice in High Barind Tract	<ul style="list-style-type: none"> To develop weed management options for dry direct seeded Aus rice in HBT and To find-out economic weed strategy for dry direct seeded Aus rice in HBT. 	Godagari/ Duboil, Tanore, Rajshahi
1459.	Performance of Dibbled Garlic varieties with B. Aman rice in Cumilla Region	<ul style="list-style-type: none"> To see the performance of garlic varieties as relay crop with B. Aman rice. 	Muradnagar, Cumilla
1460.	Field validation of ICM techniques in reducing flower and fruit dropping of Mango at High Barind Tract	<ul style="list-style-type: none"> To reduce flower and fruit dropping by improved management packages in farmer's field and To reduce indiscriminate use of insecticides. 	Godagari, Rajshahi and Sapahar, Noagaon.
1461.	Productivity and profitability of Okra under different plant spacing	<ul style="list-style-type: none"> To find out a suitable spacing arrangement for okra production under AEZ-3 and To increase farmers income 	Mithapukur, Rangpur and Khulna
1462.	Effect of mulch materials on growth and yield of Potato under zero tillage condition	<ul style="list-style-type: none"> To see the performance of potato variety under different mulches in zero tillage condition 	All MLT sites and FSRD site
1463.	Performance of Garlic varieties under zero tillage method with mulch	<ul style="list-style-type: none"> To evaluate the performance of garlic under zero tillage cultivation method To find out the effect of mulching on garlic cultivation and To increase the production and farmers' income 	Delduar (FSRD)
1464.	Observational study on cutting of pre-matured Jute (Basch pat) before final harvesting	<ul style="list-style-type: none"> To get information about different factors on cutting of pre-matured jute before final harvesting 	Faridpur (FSRD)
1465.	Management of tip burn of Garlic	<ul style="list-style-type: none"> To find out the effective control measures of tip burn of garlic 	Bogura (On station)
1466.	Effect of planting date on yield of Bt Brinjal	<ul style="list-style-type: none"> To determine appropriate sowing time of Bt brinjal for higher yield and market price for south-western region of Bangladesh 	Satkhira and Tangail (MLT)
1467.	Effect of spacing of Potato under zero tillage condition in saline soil of Bangladesh	<ul style="list-style-type: none"> To find out optimum spacing of zero tillage potato for higher yield. 	Dacope, Khulna
1468.	Effect of sowing date on yield of spinach in southwestern saline soil	<ul style="list-style-type: none"> To find out effect of sowing date on yield performance of spinach and To find out effect of harvest date on the quality of spinach 	Dacope, Khulna and, Khulna (On-station)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1469.	Effect of cover crops for salinity management in Sunflower	<ul style="list-style-type: none"> To minimize soil salinity effect on sunflower and To increase system productivity. 	Dacope, Khulna.
1470.	Effect of irrigation on Sweet Potato in charland of Jamalpur	<ul style="list-style-type: none"> To find out the effect of irrigation on the yield of sweet potato and To increase yield as well as farmers income 	Melandah, Jamalpur (MLT)
1471.	Performance of different Rabi crops in coastal saline area	<ul style="list-style-type: none"> To find out the suitable rabi crops in saline soil and To increase production 	Chakaria and Cox's Bazar sadar
1472.	Effect of mulching on yield of Watermelon in coastal area	<ul style="list-style-type: none"> To reduce mortality rate of transplanted watermelon seedling To reduce irrigation frequency To escape hail storming loss and To early harvest of watermelon 	Kuakata (MLT)
1473.	Residual effect of herbicides applied in strip-planted Wheat on grain and on soil microbes	<ul style="list-style-type: none"> To observe any kind of change in soil beneficial microbes as affected by the residue of post-emergence herbicides applied at label rate and higher than the label rate in strip-planted wheat and To evaluate the residual effect of post-emergence herbicides on wheat grain 	Gazipur (On-station)
1474.	Determination of pretilachlor residue in puddle and non-puddle soil during Aman rice season	<ul style="list-style-type: none"> To determine the presence of residue of pretilachlor in soil during Aman rice season under puddle and non-puddled field condition 	Gazipur (On-Station)
1475.	Field observation of salt application on rice and subsequent crops in farmers field	<ul style="list-style-type: none"> To collect base line information on details of this practice from the areas where farmers are using salt on crops To gain knowledge on agronomic response of crops due to salt application through sharing with farmers, DAE personnel, BIRRI scientists, Dealer and other stakeholder and To make documentation on this practice and set up mini research trial (pot experiment) to convince farmers to drop this hazardous practice 	Pabna and Barind
1476.	Performance of Chilli varieties/lines against varying degree of soil salinity	<ul style="list-style-type: none"> To find out suitable chilli varieties/cultivars for saline areas and To see the variability in local varieties of chilli 	Noakhali
1477.	Effect of border trees on Potato in northern region of Bangladesh	<ul style="list-style-type: none"> To find out the border trees effect on crop land area and To estimate the yield loss. 	Rangpur and Ulipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1478.	Effect of herbicides on plant growth and root nodulation of Mungbean	<ul style="list-style-type: none"> To evaluate effectiveness of herbicide(s) in controlling target weeds in mungbean and To evaluate the herbicidal action on root nodulation of mungbean yield of mungbean 	On Station
1479.	Effect of sowing dates on growth and yield of Wheat in Sylhet region	<ul style="list-style-type: none"> To find out the optimum sowing time for maximizing the yield and profit of wheat. 	All MLT(s) and FSRD site
1480.	Effect of tillage options and residue retention on Lentil-T. Aman rice cropping pattern in High Barind Tract	<ul style="list-style-type: none"> To find out the suitable tillage system for Lentil-T. Aman rice cropping pattern in High Barind Tract. To see the effect of residue retention on the yield of crops 	Godagari, Rajshahi (FSRD)
1481.	Weed management in Lentil under tillage options in High Barind Tract	<ul style="list-style-type: none"> To increase productivity through mechanized seeding and weed management of lentil in High Barind Tract 	Godagari, Rajshahi (FSRD)
1482.	Effect of row distance and irrigation on the yield of Lentil under strip tillage system	<ul style="list-style-type: none"> To find out the suitable spacing and irrigation regime for increasing lentil yield in High Barind Tract. 	Godagari, Rajshahi (FSRD)
1483.	Yield maximization of early planted Okra with high density planting	<ul style="list-style-type: none"> To find out the suitable spacing of okra for maximizing 	Paba, Rajshahi (MLT)
1484.	Effect of detopping on grain and fodder yield of zero tillage Maize in the haor area	<ul style="list-style-type: none"> To see the effect of detopping on days to maturity and yield of maize and To minimize shortage of green fodder in the haor areas 	Nunir haor, Nikli, Kishoreganj
1485.	Effect of planting geometry on the yield of Maize at hilly areas	<ul style="list-style-type: none"> To determine optimum/suitable planting geometry for quality and market price of maize in different planting geometry and To increase yield and economic return of farmers 	Bandarban
1486.	Optimization of Okra spacing and sowing dates in the saline soils of southwestern Bangladesh	<ul style="list-style-type: none"> To determine appropriate spacing and optimum sowing time of okra and To increase yield and farmers' income 	Khulna (On station) and Batiaghata (MLT)
1487.	Performance of Potato varieties with mulch under zero tillage condition in coastal areas of Southern Bangladesh	<ul style="list-style-type: none"> To find out suitable potato variety(ies) for zero tillage mulch condition in the coastal area and To increase cropping intensity, total productivity and farmers' income 	Khatail, Dacope, Khulna
1488.	Soil salinity tolerance in Maize varieties under field conditions	<ul style="list-style-type: none"> To select the high salinity tolerant maize varieties 	Khulna and Koyra (MLT)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1489.	Performance of different Mustard varieties in fallow period of Fallow-Boro rice- T. Aman rice cropping pattern in Pabna	<ul style="list-style-type: none"> To improve the existing cropping pattern by inclusion of mustard and To increase economic return of farmers 	Gongarampur, Pabna (FSRD)
1490.	Late planting potential of BARI Tomato varieties in northern region of Bangladesh	<ul style="list-style-type: none"> To make availability of tomato during late winter season To identify suitable variety for late planting and To increase farmers income 	Domar, Nilphamari
1491.	Effect of planting time on Bt Brinjal production	<ul style="list-style-type: none"> To find out suitable planting time of different Bt brinjal varieties and To increase farmers income 	On station
1492.	Yield and quality of Maize varieties as influenced by different sowing time at Bandarban	<ul style="list-style-type: none"> To determine yield, quality and market price of maize in different sowing time To increase yield and economic return of farmers 	Bandarban sadar
1493.	Effect of planting date on growth, harvested leaves and seed yield of Mustard green (Laishak) in Sylhet region	<ul style="list-style-type: none"> To identify the optimum planting date for maximizing the yield of mustard green 	Jalalpur (FSRD) and Guptorgaw, Sylhet
1494.	Agro-economic performance of floating bed agriculture in Sylhet	<ul style="list-style-type: none"> To find out suitable floating bed vegetable model and To introduce BARI developed vegetable varieties 	Sunamganj (MLT)
1495.	Performance of Maize, Garlic and Potato in zero tillage at before and after harvest of Transplanted Aman rice	<ul style="list-style-type: none"> To find out the suitable transplanting time for higher yield of maize, garlic and potato under zero tillage condition 	Jalalpur (FSRD) and all MLT sites in Sylhet
1496.	Effect of different planting system of Chilli in the char area of Kishoreganj	<ul style="list-style-type: none"> To observe the performance of chilli in different planting system To increase the crop production and economic return 	Rahimpur, Kishoreganj
1497.	Performance of herbicides in Wheat-Mungbean- T. Aman rice cropping pattern under conservation agriculture systems	<ul style="list-style-type: none"> To examine the performance of herbicides and their effect on crops in wheat-mungbean-T. Aman rice cropping pattern under conservation agriculture systems and 	Shyampur, Rajshahi; Rangpur and Gazipur (On-Station)

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To select effective and economic herbicides for all crops of wheat-mungbean- T. Aman rice cropping pattern under conservation agriculture systems 	
1498.	Performance of herbicides in Wheat-Mungbean- T. Aman rice cropping pattern under conventional systems	<ul style="list-style-type: none"> To examine the performance of herbicides and their effect on crops in wheat-mungbean-T. Aman rice cropping pattern under conventional and conservation agriculture systems and To select effective and economic herbicides for all crops of wheat-mungbean- T. Aman rice cropping pattern under conventional and conservation agriculture systems. 	Shyampur, Rajshahi; Rangpur and Gazipur (On-Station)
1499.	Performance of Wheat under tillage technology by power tiller operated seeder and conventional method	<ul style="list-style-type: none"> To popularized the PTOS for minimizing production cost. To increase farmers' income 	Koyra, Khulna
1500.	Performance of Wheat under tillage technology by power tiller operated seeder and conventional method	<ul style="list-style-type: none"> To popularized the PTOS for minimizing production cost. To increase farmers' income 	Koyra, Khulna
F. Plant Protection Measures			
1501.	Field validation of bio-rational based management techniques for the control of Mango fruit fly in Rajshahi region	<ul style="list-style-type: none"> To popularize bio-rational based management techniques in controlling mango fruit fly amongthe farmers. 	Charghat and Bagha, Rajshahi
1502.	Development of management techniques against scale insect attacking Mango	<ul style="list-style-type: none"> To develop the proper management technique(s) to control mango scale insect. 	Charghat and Bagha, Rajshahi
1503.	Survey and documentation of insect pests attacking Potato in Rajshahi region	<ul style="list-style-type: none"> Documentation of insect pests attacking potato at Tanor, Godagari and Mohanpur of Rajshahi district. 	Tanor, Godagari and Mohanpur, Rajshahi
1504.	Field validation of bio-rational based management techniques for the control of Mango fruit fly in Rajshahi region	<ul style="list-style-type: none"> To popularize bio-rational based management techniques in controlling mango fruit fly amongthe farmers. 	Charghat and Bagha, Rajshahi
1505.	Development of management techniques against scale insect attacking Mango	<ul style="list-style-type: none"> To develop the proper management technique(s) to control mango scale insect. 	Charghat and Bagha, Rajshahi

Sl. No.	Research Title	Major Objective (s)	Location (s)
1506.	Survey and documentation of insect pests attacking Potato in Rajshahi region	<ul style="list-style-type: none"> • Documentation of insect pests attacking potato at Tanor, Godagari and Mohanpur of Rajshahi district. 	Tanor, Godagari and Mohanpur, Rajshahi
G. Agroforestry Systems			
1507.	Performance of Blackgram varieties in Mango orchard in Satkhira	<ul style="list-style-type: none"> • To evaluate the performance of blackgram varieties under mango orchard. • To increase the farmers income. 	Satkhira (MLT)
1508.	Development of cropping pattern in Mango based agroforestry systems	<ul style="list-style-type: none"> • To see the performance of different cropping pattern under Mango based agro-forestry systems and • To increase productivity and income of the agro-forestry systems 	Shibpur, Rajshahi (MLT)
1509.	Performance of pulses in Mango based Agro-forestry system in HBT	<ul style="list-style-type: none"> • To increase cropping intensity and productivity in the High Barind Tract 	Kadamshahar, Godagari, Rajshahi (FSRD)
1510.	Performance of Turmeric and Ginger varieties under fruit tree-based agroforestry system	<ul style="list-style-type: none"> • To observe the performance of under storey crops in the fruit tree based agro forestry system • To find the suitable fruit tree garden for specific crops and • To increase production and economic return 	Bandarban sadar
1511.	Feasibility of growing shade tolerant vegetable crops in fruit tree-based agroforestry systems	<ul style="list-style-type: none"> • To introduce short duration shade tolerant crops in agroforestry systems • To increase productivity and income of the agroforestry systems 	Pushpapara (FSRD)
1512.	Performance of intercropping Red amaranth/Jute leaf with Turmeric under Mango-based agroforestry system	<ul style="list-style-type: none"> • To assess the performance of intercropping red amaranth/jute (leaf) with turmeric under mango-based agroforestry system and • To find out the suitable variety(ies) of turmeric under mango-based agroforestry system 	Cumilla and Chandpur
1513.	Performance of intercropping Red amaranth/Jute leaf with summer vegetables under Mango-based agroforestry system	<ul style="list-style-type: none"> • To observe the performance of intercropping red amaranth/ jute leaf with summer vegetables in the mango-based agroforestry system and • To increase production and economic return. 	Cumilla and Chandpur
1514.	Performance of intercropping Red amaranth/Jute leaf with BARI Tomato and Sweet	<ul style="list-style-type: none"> • To observe the performance of red amaranth along with winter vegetables in the mango-based agroforestry system and 	Cumilla and Chandpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	gourd varieties under Mango-based agroforestry system	<ul style="list-style-type: none"> To increase total production and economic return 	
On-Farm Trials with Advanced Lines and Technologies (Plant Breeding Division)			
1515.	Evaluation of promising Maize hybrids for Haor areas	<ul style="list-style-type: none"> To identify better performing and early maturing hybrids for haor areas 	Nikli, Kishoregonj
1516.	Up scaling of BARI Hybrid Maize-9 at Haor areas of Kishoreganj through dibbling method	<ul style="list-style-type: none"> To observe the performance of BARI released Maize hybrids at haor areas 	Kishoreganj Haor area of (2)
1517.	Seed production of the parental lines of BARI Maize hybrids (3 sets)	<ul style="list-style-type: none"> To produce breeder seed of the parental lines for further use and To distribute the increased seed to BADC and other private agencies. 	Kishoregonj Bogura and Cumilla
1518.	Seed production of parental lines of selected promising Maize hybrids (5 sets)	<ul style="list-style-type: none"> To increase F1 seeds of the promising hybrids 	Sherpur and Cox's Bazar.
1519.	Maintenance and seed production of BARI composite Maize varieties (2 Sets)	<ul style="list-style-type: none"> To supply breeder's seed to BADC and other organization To maintain the purity of the popular composite varieties and To supply seed directly to farmers. 	Sherpur and Pabna
1520.	Seed production of parental lines of selected promising Maize hybrids (5 sets)	<ul style="list-style-type: none"> To increase F1 seeds of the promising hybrids 	Sherpur and Cox's Bazar.
1521.	Maintenance and seed production of BARI composite Maize varieties (2 Sets)	<ul style="list-style-type: none"> To supply breeder's seed to BADC and other organization To maintain the purity of the popular composite varieties and To supply seed directly to farmers. 	Sherpur and Pabna
1522.	Adaptive trials of BARI Maize hybrids in different hilly districts	<ul style="list-style-type: none"> To observe performance of BARI maize varieties in hilly areas and To popularize BARI maize varieties/hybrids to the farmers in hilly areas. 	Ramgarh Bandorban and Khagrachari
1523.	Adaptive trial of BARI Maize hybrids in different districts	<ul style="list-style-type: none"> To disseminate and popularize the hybrids to the farmers Location: Jamalpur, Bogura, Faridpur, Barind, Rajshahi, Jessore, Dinajpur, Pabna, Cumilla and Tangail	
1524.	Adaptive trials of BARI barley varieties in Southern belt and Barind areas	<ul style="list-style-type: none"> To observe the performance of BARI barley varieties in dry and saline areas and 	Saline areas Satkhira, Noakhali

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To disseminate and popularize BARI barley varieties to the farmers of saline and dry areas 	Khulna and Barind tract
1525.	Demonstration trial of BARI barley varieties in Char areas	<ul style="list-style-type: none"> To observe the performance of BARI barley varieties in dry and saline areas and To disseminate and popularize BARI barley varieties to the farmers of saline and dry areas. 	Bogura Tangail Rangpur Faridpur Manikgonj and Gaibandha
1526.	Up-scaling of BARI Foxtail millet varieties in char and Barind areas	<ul style="list-style-type: none"> To disseminate and popularize BARI Foxtail millet varieties to the farmers of char areas. <p>Location: Char areas of Munshiganj, Tangail, Rangpur Jamalpur, Bogura and Barind area</p>	
1527.	Multi-location trial of selected ICRISAT sorghum lines	<ul style="list-style-type: none"> To test the performance of sorghum variety/ germplasm and select suitable better performing one(s) in Bangladesh condition. 	Joydebpur Noakhali and Satkhira
1528.	Validation of promising selected Proso millet lines under rainfed condition	<ul style="list-style-type: none"> To select better performing proso millet line(s) 	Barind, Rajshahi and Char area Gibandha
Tuber Research Centre			
1529.	Adaptive trial of Potato varieties	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties. To collect the feedback of the newly released varieties. <p>Location: Barishal, Bhola, Borguna, Bogura, Chittagong (Pahartoli), Chandpur, Coxesbazar, Cumilla, Dinajpur, Faridpur, Gibandha Gopalganj, Gazipur, Jamalpur, Jashore, Jhenaidah, Khulna Kishoregonj Kushtia, Madaripur, Manikganj, Munshiganj, Mymensing, Norshindi, Noakhali, Panchogor, Patuakhali, Rajshahi, Rangpur, Sherpur, Satkhira, Tangail, Thakurgaon, Dinajpur (4-10 trials in each of the above districts)</p>	
1530.	Promotion and dissemination of late blight resistant Potato variety	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties To collect the feedback of the newly released varieties and To increase the production as well as income of the growers 	Dinajpur Rangpur Bogura Jamalpur, Rajshahi and Jashore (2 to 10 trials)
1531.	Promotion and dissemination of climate SMART (Heat and Salt tolerant) Potato variety	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties To collect the feedback of the newly released varieties and To increase the production as well as income of the growers. 	Barishal Patuakhali, Barguna, Khulna, Satkhira Coxesbazar, and Jashore (20 trials)
1532.	Adaptive trials of Sweet Potato varieties	<ul style="list-style-type: none"> To popularize the newly released improved sweet potato varieties and To collect the feedback of the newly released varieties. <p>Location: Narsingdi Manikganj Bogura, Gaibandha, Rangpur Kurigram, Jamalpur, Sherpur, Kishoreganj, Mymensingh, Jashore, Noakhali, Sylhet, Cumilla, Bandarban and Faridpur</p>	

Sl. No.	Research Title	Major Objective (s)	Location (s)
1533.	Effect of nutrient management and storage methods on the yield and storability of Sweet Potato	<ul style="list-style-type: none"> To disseminate the developed fertilizer package for the yield and storability of sweet potato and To collect the feedback of the newly developed fertilizer package 	Kushtia Bogra Gaibandha and Sherpur
1534.	Adaptive trials of Panikachu varieties	<ul style="list-style-type: none"> To test the adaptability of the released varieties of Panikachu at farmers' level. Location: Narsingdi, Manikgong, Bogura, Joypurhat, Rangpur, Jamalpur, Sherpur, Kishoregong, Jashore, Kushtia, Noakhali, Habigonj, Sylhet, Moulovibazar and Barishal	
1535.	Adaptive trials of Mukhikachu varieties	<ul style="list-style-type: none"> To test the adaptability of the released varieties of Mukhikachu at farmers' level. Location: Bogura, Gaibanda, Jamalpur, Sherpur, Kishoregong, Tangail, Mymensingh, Narsingdi, Jashore, Kushtia, Noakhali, Habigonj, Sylhet, Moulovibazar and Barishal	
Vegetable Division			
1536.	On-farm trial of BARI Summer Eggplant variety	<ul style="list-style-type: none"> To evaluate the performance of the variety in farmers' field Location: Bogra, Narasindi, Pabna, Shatkhira, Daulatpur and Cox's Baza	
1537.	On-farm trial of BARI Eggplant hybrids	<ul style="list-style-type: none"> To evaluate the performance of the hybrid eggplant variety in farmers' field Location: Bogra, Narsingdi, Comilla, Pabna, Rajshahi, Patuakhali, Satkhira, Daulatpur, Mymensingh and Faridpur	
1538.	On-farm trial of BARI Winter Tomato variety	<ul style="list-style-type: none"> To evaluate the performance of the variety under farmers' field Location: Rajshahi, Comilla, Patuakhali, Daulatpur, Noakhali, Cox's Bazar, Bandarban, Narsingdi and Tangail,	
1539.	On-farm trial of BARI Summer hybrid Tomato	<ul style="list-style-type: none"> To evaluate the performance of summer hybrid variety in farmers' field Location: Comilla, Shyampur, Pabna, Daulatpur, Bandarban, Patuakhali, Noakhali, Barind and Bhola	
1540.	On-farm trial of BARI Bottle gourd variety for year-round	<ul style="list-style-type: none"> To evaluate the performance of the variety in farmer's field Location: Rangpur, Norshindi, Patuakhali, Jessore, Daulatpur, Patuakhali and Noakhali	
1541.	On-farm trial of BARI hybrid Pumpkin variety	<ul style="list-style-type: none"> To evaluate the performance of hybrid pumpkin variety in farmers field Location: Daulatpur, Khulna, Comilla, Mymensingh, Patuakhali, Rangpur, Narsingdi	
1542.	On-farm trial of BARI Okra variety	<ul style="list-style-type: none"> To evaluate the performance of newly developed okra variety in farmer's field Location: Comilla, Mymensingh, Patuakhali, Pabna, Bandarban, Rajshahi and Daulatpur	
1543.	On-farm trial of BARI Bitter gourd variety	<ul style="list-style-type: none"> To evaluate the performance of bitter gourd variety in farmer's field Location: Location: Comilla, Norshindi, Mymensingh, Jashore Pabna, Bandarban, Rajshahi, Minkganj, Faridpur and Rangpur	

Sl. No.	Research Title	Major Objective (s)	Location (s)
1544.	On-farm trial of BARI Sponge gourd variety	<ul style="list-style-type: none"> To evaluate the performance of sponge gourd variety in farmer's field Location: Comilla, Narsinghdi, Mymensingh, Jessore, Pabna, Bandarban, Rajshahi and Rangpur	
Spices Research Centre			
1545.	On-farm trial of winter Onion varieties in charland	<ul style="list-style-type: none"> To evaluate the performance of onion varieties at different char land To popularize onion variety at different char land among the farmers and To promote their adoption. Location: Charland area of Shariakandi, Bogura, Gaibandha, Atgharia, Pabna, Sirajganj and Faridpur (incorporation with OFRD, BARI, Gazipur) Plainland: Thakurgaon	
1546.	Validation trial of Onion and Garlic varieties in charland at Lalmonirhat region	<ul style="list-style-type: none"> To popularize the BARI developed onion and garlic variety among the farmers Location: Lalmonirhat, Kurigram (Chilmari, Ulipur, Rajarhat), Rangpur (Kaunia and Gangachara)	
1547.	On-farm verification trial of Garlic variety	<ul style="list-style-type: none"> To study the performance of garlic varieties in saline area To popularize new garlic variety at different locations among the farmers to promote their adoption. Location: Patuakhali, Kuakata and Bhola (incorporation with OFRD, BARI, Gazipur), Tangail,	
1548.	Performance of BARI Chilli varieties in char land of Jamalpur	<ul style="list-style-type: none"> To popularize BARI released high yielding chilli varieties at char land and To study the adaptability of BARI released chilli varieties at farmers' level. Location: Islampur, Madergonj and Melendmalpursdar	
1549.	On-farm adaptability trial of Chilli varieties in saline areas	<ul style="list-style-type: none"> To find out the suitable chilli varieties for saline areas To increase the chilli production and productivity in saline areas Location: Patuakhali (Kolora), Satkhira, Vola and Khulna (Kayra)	
1550.	On-farm adaptability trial of Chilli varieties in charland areas	<ul style="list-style-type: none"> To find out the suitable chilli varieties for char land areas To increase the chilli production and productivity in char areas Location: Location: Charland: Shariakandi, Bogura; Gaibandha; Pabna, Plainland: Thakurgaon, Faridpur Hill: Bandarban	
1551.	Performance of Black cumin variety	<ul style="list-style-type: none"> To study the performance of black cumin variety at farmer's field and To popularize black cumin variety at farmer's field 	Tangail, Mymensingh and Rajshahi
1552.	Performances trial of Turmeric	<ul style="list-style-type: none"> To evaluate the yield performances of turmeric variety and To popularize turmeric variety at farmer's field 	Kishoreganj and Faridpur
Oilseed Research Centre			
1553.	Adaptive trial of advanced lines of Rapeseed	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of rapeseed in the farmers field and 	Pabna

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To develop high yielding variety of rapeseed. 	Comilla, Netrakona and Tangail
1554.	Adaptive trial of advanced lines of Sesame	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of sesame in the farmers field at different locations of Bangladesh and To develop high yielding variety of sesame 	Faridpur Kushtia Khulna and Patuakhali
1555.	Adaptive trial of advanced line of Soybean	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of Soybean in the farmers field and To develop high yielding variety of Soybean 	Noakhali Laxmipur Chandpur Bhola and Rangpur
1556.	Adaptive trial of advanced lines of Linseed	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of linseed in the farmers field and To develop high yielding variety of linseed 	Noakhali Chadpur Rangpur and Bhola
1557.	Development of seed rate for Mustard-Boro mixed cropping system	<ul style="list-style-type: none"> To observe the optimum rate of seed for mustard-Boro mixed cropping. 	Comilla
Soil Science Division			
1558.	Validation of bio-fertilizer on different legumes (Mungbean, Lentil, Chickpea, Groundnut, Soybean etc.)	<ul style="list-style-type: none"> To popularize the rhizobium bio-fertilizer technology for producing pulse and oilseed legumes in the farmers level. <p>Location: Mungbean: Kushtia, Faridpur, Patuakhali, Bhola, Satkhira, Sylhet, Cox's Bazar Lentil: Meherpur, Faridpur, Jessore, Sylhet, Jamalpur Chickpea: Kushtia, Faridpur, Rajshahi, Pabna, Sylhet Groundnut: Rangpur, Jamalpur, Kishoreganj, Cox's Bazar. Soybean: Noakhali, Laxmipur, Bhola, Rangpur</p>	
1559.	Effect of crop establishment and nutrient management practices in terms of soil properties, crop productivity and economics of Onion-Jute-T. Aman rice cropping system	<ul style="list-style-type: none"> To study on the practices in terms of system productivity and economic profitability of the cropping system. 	OFRD
1560.	Foliar applications of zinc and boron for Sweet pepper production	<ul style="list-style-type: none"> To study the effect of foliar applications of zinc and boron for sweet pepper production 	Horticultural crop growing zones
1561.	Integrated nutrient management on Sunflower in coastal charland	<ul style="list-style-type: none"> To assess the effect of integration of nutrients for cultivation of sunflower in coastal char land and To find out the optimum and economic fertilizer dose for sunflower production 	Noakhali and Patuakhali and Satkhira (ARS)
1562.	Effect of bio-slurry and chemical fertilizer on the	<ul style="list-style-type: none"> To find out effect of bio-slurry on the yield and yield component of onion 	OFRD

Sl. No.	Research Title	Major Objective (s)	Location (s)
	yield and quality of Onion	<ul style="list-style-type: none"> To find out nutrient uptake as influenced by different sources of bio-slurry To find out the effect of bio slurry on soil fertility and To increase farmer's income 	
1563.	Effect of different sources of organic manures on the production of Cauliflower	<ul style="list-style-type: none"> To find out suitable organic manure for organic vegetable production To find out the efficacy of different organic manure on producing organic vegetables 	OFRD
Agronomy Division			
1564.	On-farm trial of intercropping pea with hybrid Maize at varying planting system	<ul style="list-style-type: none"> To validate the developed pea and hybrid maize intercropping in farmers field 	Manikganj
1565.	On farm trial of intercropping Mungbean with Mukhikachu at varying planting system	<ul style="list-style-type: none"> To validate the developed Mungbean and Mukhikachu intercropping in farmers field 	Kishoreganj
1566.	Validation of fertilizer management on fruit yield of Bt. Brinjal	<ul style="list-style-type: none"> To validate the effect of fertilizer management on fruit yield of Bt. Brinjal 	Manikganj
Based on Local Problem/Demand			
1567.	On-farm trial of Mungbean varieties in Cumilla region	<ul style="list-style-type: none"> To screening of newly released mungbean varieties at Cumilla region To increase production and economic return 	Barura, Chandina, Muradnagar and Debidwer of Cumilla
1568.	Performance of Groundnut varieties	<ul style="list-style-type: none"> To find out suitable groundnut varieties of char area and To popularize and select the suitable BARI released groundnut variety in Narsingdi 	Narsingdi Cumilla Faridpur, Bandarban, Patuakhali and Manikganj.
1569.	Adaptive trial of BARI Long Coriander variety	<ul style="list-style-type: none"> To evaluate the performance of BARI developed varieties in comparison to local variety. 	Purbo Shullukia, Hazirhat, Noakhali
1570.	Adaptive trial of Soybean varieties	<ul style="list-style-type: none"> To evaluate the performance of different soybean varieties 	Laxmipur and Subornochar, Noakhali and Cumilla
1571.	Performance of Field pea varieties at char land of Noakhali under AEZ 18	<ul style="list-style-type: none"> To find out the suitable garden pea variety for char land of Noakhali To popularize the variety (ies) among the farmers 	Noakhali and Feni

Sl. No.	Research Title	Major Objective (s)	Location (s)
1572.	On-Farm Trial of BARI Sunflower varieties in Sylhet region	<ul style="list-style-type: none"> To see the performance of BARI sunflower varieties. To popularize and disseminate BARI released sunflower varieties. 	Kamalbazar and Moulvibazar, Shaestagonj
1573.	On farm trial of BARI Banana varieties	<ul style="list-style-type: none"> To evaluate the performance of BARI released different banana varieties 	Faridpur
1574.	On farm trial of BARI Dragon fruit varieties	<ul style="list-style-type: none"> To evaluate the performance of BARI released different dragon fruit varieties 	Faridpur
1575.	On-farm trial of Wheat varieties in charland	<ul style="list-style-type: none"> To screening of BARI released wheat varieties at charland areas To increase production and economic return 	Char areas of Sariakandiand, Dhunut
1576.	Collection and evaluation of Chui jhal (Piper chaba) germplasms in coastal area	<ul style="list-style-type: none"> To find suitable <i>chui</i> cultivar and expand <i>chui</i> cultivation coastal area. 	Khulna Satkhira and Bagerhat
1577.	Adaptive trial of Ginger varieties in homestead garden in coastal saline area	<ul style="list-style-type: none"> To evaluate the performance of ginger varieties. To meet up year-round household requirement of ginger. 	Koyra
1578.	Adaptive trial of BARI Coriander variety in plainl and of Rajshahi	<ul style="list-style-type: none"> To evaluate the performance of BARI developed coriander variety at farmers field To popularize the BARI released variety among the farmers. 	Shibpur, Rajshahi
1579.	On-farm verification trial of BARI Mustard varieties	<ul style="list-style-type: none"> To know the performance of mustard varieties in Rajshahi region To increase cropping intensity To know the farmers feed back 	Durgapur and Rajshahi
1580.	Performance of BARI Bottle gourd variety in summer season	<ul style="list-style-type: none"> To observe the yield performance of the BARI bottle gourd variety in summer and To popularize bottle gourd during summer for raising farm income To know the farmers feedback 	Ranigonj, Dinajpur
1581.	Performance of BARI Mustard varieties in Dinajpur	<ul style="list-style-type: none"> To find out the appropriate variety for Dinajpur region and To increase yield and income of the farmers 	Ranigong, Dinajpur and Pirogong, Thakorgang, (MLT) Rajbari, Dinajpur (ARS)
1582.	Adaptive trial of selected Chili varieties on	<ul style="list-style-type: none"> To find out the suitable chili variety(ies) for cultivation on floating bed and to 	Madaripur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	floating bed in Madaripur	introduce chili crop under floating agriculture system in Madaripur areas	
Integrated Farming			
1583.	Integrated Farming for Improving Livelihood of Resource Poor Farm Households in a Participatory Approach	<ul style="list-style-type: none"> • Optimization of homestead land use for the availability of vegetable round the year • Utilization of family labour and inclusion of new and profitable technologies as Income Generating Activities (IGA). • Improvement of human nutrition by supplying required vitamin A, C, iron, calcium and thiamin • Incorporation of leguminous crops in the existing cropping pattern and • Strengthen linkage among researchers, extension agents and farmers to expedite technology transfer process. 	FSRD site of Rangpur Barind (Rajshahi) Pabna Faridpur Noakhali Patuakhali Sylhet Tangail Jamalpur Bogura Mymensingh and Gopalganj
Socio-economic Studies			
1584.	Identification of best agricultural practices and cropping patterns and their impacts on farm households in selected areas of Mymensingh district	<ul style="list-style-type: none"> • To identify the best agricultural practices and different cropping patterns in the study area. • To assess productivity, profitability and sustainability of major cropping patterns and • To analyze the socioeconomic impacts of best agricultural practices on farm household's income. 	Mymensingh
1585.	Survey on identification and adoption status of BARI var./ technologies in the Sylhet region	<ul style="list-style-type: none"> • To determine the adoption status and factors affecting behind adopting and non-adopting of BARI developed technologies in the Sylhet region; • To estimate the profitability of BARI technologies at farm level and • To find out the constraints to adopt BARI technologies. 	All MLTs and FSRD Site
1586.	Assessment of agricultural land use in charland ecosystem using remote sensing techniques	<ul style="list-style-type: none"> • To develop crop types, cropping patterns maps in the study areas using remote sensing image analysis and • To develop agro-environmental resources and constraints geo-database from remote sensing image analysis and secondary data acquisition and • To suggest location specific suitable agricultural technologies for sustainable cropping intensification in charland area. 	Faridpur and Bogura (Charland)

Sl. No.	Research Title	Major Objective (s)	Location (s)
1587.	Survey on existing weed species and methods of weed control in farmers' field during rabi season	<ul style="list-style-type: none"> To identify the existing common and major weed species in farmers' field during <i>rabi</i> season based on crop and To record the weed control methods that farmers usually practice in different crops during <i>rabi</i> season. 	Manikganj Munshiganj Mymensingh Rangpur and Gazipur
1588.	A socio-economic study on fertilizer management practices of existing mixed and intercropping system at farmers level in different areas of Bangladesh	<ul style="list-style-type: none"> To know the existing cropping practices To know the fertilizer management practices of existing multiple cropping systems and To identify the constraints and potentiality of those practices 	Rangpur and Faridpur
1589.	Adoption and Impact of BARI Released Pulse Varieties in the Rajshahi region of Bangladesh	<ul style="list-style-type: none"> To determine the adoption and factors affecting adoption of BARI released pulse varieties in the Rajshahi region To evaluate the impacts of BARI released pulse varieties on productivity, profitability and farmers income To identify the problems and constraints for adopting BARI released pulse varieties in the Rajshahi region 	Poba and Godagari Rajshahi, and Amnura, Capai Nababganj
1590.	Adoption of some BARI released major winter vegetables in Kishoreganj and Narsingdi districts	<ul style="list-style-type: none"> To know the adoption rate of brinjal, tomato and radish in selected area and To know the profitability of selected vegetables in the study areas To know the problems and constraints faced by the farmers 	Kishoreganj and Narsingdi
1591.	Agro-economic Performance of Zero Tillage Garlic in Chalan beel Areas of Bangladesh	<ul style="list-style-type: none"> To document the input use level of garlic in the study area and To estimate the profitability of garlic in zero tillage condition To explore the problems and potentiality of garlic 	Bagura
Transfer of Technology			
1592.	Production program of intercropping Chilli with onion	<ul style="list-style-type: none"> To popularize intercropping chilli with onion To increase yield and economic return of farmers 	Nikli, Hossainpur, Itna and Mitamoin, Kishoreganj
1593.	Production program of BARI pulse and oilseed varieties in Bhola	<ul style="list-style-type: none"> To validate and popularize the BARI developed crop varieties in Bhola To increase production and farmers' income 	Nikli and Mitamoin, Kishoreganj
1594.	Production program of cereals, pulses, oilseeds	<ul style="list-style-type: none"> To validate and popularize the BARI developed cereals, oilseeds and vegetable crop varieties in Cumilla region. 	Itna, Mitamoin, Austogram, Nikli

Sl. No.	Research Title	Major Objective (s)	Location (s)
	and vegetables crops in Cumilla region		and Karimganj of Kishoreganj
1595.	Production program of BARI Okra varieties at Manikganj	<ul style="list-style-type: none"> To evaluate the performance of BARI released okra varieties at farmer's field To know farmers' opinion about the BARI developed varieties and To increase yield and farmers' income 	Faridpur, Rajbari and Madaripur
1596.	Production program of BARI Kangkong variety in the farmers field at Manikganj	<ul style="list-style-type: none"> To evaluate the performance of BARI kangkong at farmer's field To know farmers' opinion about the BARI developed varieties and To increase yield and farmers' income 	On- station
1597.	Production program of Onion in the char areas of Mymensingh	<ul style="list-style-type: none"> To popularize the BARI developed onion variety at farmers' level and To increase spice crop production and farmers income 	Mymensingh sadar and Gouripur, Mymensingh
1598.	Production program of Mustard, Black cumin, Groundnut, Linseed, Blackgram, Khesari, Maize, Barley and kaon under cropping pattern	<ul style="list-style-type: none"> To popularize BARI released crop varieties among the farmers and To increase yield and economic return of farmers 	Tangail
1599.	Production program of BARI Lentil variety	<ul style="list-style-type: none"> To increase productivity of lentil variety and To increase production and economic return 	Gangni, Chuadanga, Mujibnagar and Bheramara
1600.	production program of cereals, pulses, oilseeds and vegetables in Bandarban Region	<ul style="list-style-type: none"> To validate and popularize the BARI developed crop varieties in Bandarban region 	Bandarban sadar, Lama and Naikhongchori
1601.	Pilot production Program of Mustard variety at Jamalpur region	<ul style="list-style-type: none"> To increase the production of oil seed crops and To popularize BARI variety among the farmers. 	Melandah, Jamalpur
1602.	Pilot production Program of Black gram at Sherpur region	<ul style="list-style-type: none"> To increase the production of legume crops and To popularize BARI variety among the farmers. 	Nakla, Sherpur
1603.	Pilot production Program of Garden pea variety at Sherpur region	<ul style="list-style-type: none"> To increase the production of garden pea and To popularize BARI variety among the farmers. 	Tarakandi, Sherpur (FSRD)
1604.	Pilot production Program of Panikachu variety at Sherpur region	<ul style="list-style-type: none"> To increase the production of aroid crops and To popularize BARI variety among the farmers. 	Tarakandi, Sherpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1605.	Up scaling of BARI Surjamukhi-2 in coastal region	<ul style="list-style-type: none"> To disseminate BARI Suejamukhi-2 in southern region To popularize BARI Suejamukhi-2 in farmers level and To increase cropping intensity and farmers income 	Patuakhali, Borguna, Pirojpur and Bhola (16)
1606.	Production program of Mustard in the haor area of Kishoreganj	<ul style="list-style-type: none"> To popularize BARI Sarisha in the haor areas and To increase cropping intensity and productivity of the farmers 	Nikli, Hossainpur, Itna and Mitamoin, Kishoreganj
1607.	Block demonstration of BARI hybrid Maize-9 in the haor area of Kishoreganj	<ul style="list-style-type: none"> To popularize BARI hybrid maize-9 in the haor areas To increase cropping intensity and productivity of the farmers 	Nikli and Mitamoin, Kishoreganj
1608.	Production program of Blackgram in the haor area of Kishoreganj	<ul style="list-style-type: none"> To popularize BARI Mas-3 in the haor areas To increase cropping intensity and productivity of the farmers 	Itna, Mitamoin, Austogram, Nikli and Karimganj of Kishoreganj
1609.	Production program of BARI Crop varieties at farmers field under AEZ 12	<ul style="list-style-type: none"> To popularize the BARI developed crop varieties in AEZ 12 	Faridpur, Rajbari and Madaripur
1610.	Pilot production program of Mustard-Boro-T. Aman rice cropping patterns	<ul style="list-style-type: none"> To develop an economically viable cropping pattern by inclusion of Mustard in rice-rice cropping pattern To increase cropping intensity and farmers income 	On- station
1611.	On-farm adaptive trial with BARI Bt Brinjal varieties	<ul style="list-style-type: none"> To evaluate the performance of Bt brinjal varieties under the farmers' field condition and To popularize the varieties among the farmers to promote their adoption in different areas of Bangladesh. <p>Location: Pabna, Shyampur, Barind, Rangpur, Bogura, Dinajpur, Sherpur, Tangail, Mymensingh, Kishoreganj, Jessore, Khulna, Kushtia, Faridpur, Patuakhali, Barishal, Bhola, Hathazari, Noakhali, Cumilla, Sylhet, Bandarban, Narsingdi, Gopalganj, Cox's bazar, Gaibandha, Manikganj</p>	
IRRIGATION AND WATER MANAGEMENT DIVISION			
1612.	Daily and Multi-Step Ahead Forecasting of Potential Evapotranspiration Using Machine Learning Algorithms with Limited Climatic Data	<ul style="list-style-type: none"> To forecast daily and multi-step ahead reference evapotranspiration using different machine learning algorithms and To investigate generalization capability of machine learning algorithms in modelling reference evapotranspiration. 	Gazipur
1613.	Multi-Step Ahead Prediction of Groundwater Level Fluctuations Using Coupled Wavelet	<ul style="list-style-type: none"> To predict multi-step ahead groundwater level using a coupled wavelet transform and machine learning algorithm 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	Transform and Long Short-Term Memory Networks		
1614.	Optimize Fertigation Management to Minimize Nitrate Leaching from Drip Irrigated Brinjal Field	<ul style="list-style-type: none"> Optimize drip fertigation management to minimize nitrate leaching 	Gazipur
1615.	Historical Trends of Water Requirements of Major Crops and Cropping Patterns in the Northwestern Districts of Bangladesh	<ul style="list-style-type: none"> Observation of the historical trends of monthly total rainfall, effective rainfall and evapotranspiration in the sixteen districts of northwest region of Bangladesh and Determination of crop evapotranspiration and contribution of effective rainfall to the total irrigation requirement, and their trends for the major crops and cropping patterns 	Gazipur
1616.	Optimum Water use of Wheat and Mungbean under Different Tillage Systems with Residue Retention of a Rice-Based Cropping System	<ul style="list-style-type: none"> To reduce the turn-around time of rice based cropping system and To determine the effects of deficit irrigation and tillage practices of wheat and mungbean cultivation To determine the nutrient uptake rate in different tillage systems 	Gazipur
1617.	Effects of Floating Agriculture on the Water Quality of Ponds	<ul style="list-style-type: none"> To determine the change of water quality of ponds for household use and fish cultivation in floating agriculture 	Gazipur
1618.	Optimal Irrigation for Minimizing Fruit Cracking of Mango in Chattogram Region	<ul style="list-style-type: none"> To explore suitable of irrigation scheduling to mitigate mango fruit cracking during dry season in Chattogram region 	Gazipur
1619.	Effect of Irrigation on Bulb Yield and Water use of Summer Onion	<ul style="list-style-type: none"> To find out response of summer onion to different levels of irrigation To evaluate economic feasibility of summer onion production 	Gazipur
1620.	Irrigation Scheduling of Dragon Fruit production	<ul style="list-style-type: none"> To find out the different level of irrigation effect on yield of dragon fruit and To evaluate economic feasibility of dragon fruit production 	Gazipur
1621.	Effect of Fertilizer and Irrigation Frequency on the Yield and Quality of Export and Processing Potato	<ul style="list-style-type: none"> To find out the fertilizer dose for optimum yield, dry matter and quality of processing potato and To find out the appropriate irrigation frequency and date for optimum yield, dry matter and quality of processing potato 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1622.	Mapping of Surface Water Availability for Irrigation in High Barind Area using Remote Sensing Techniques	<ul style="list-style-type: none"> To map surface water bodies during dry season from satellite imagery To map irrigated cropland area maps of 10 m and 30 m using Landsat 8 imagery data from GEE to analyze Sentinel 1, 2 and To assess water demand from satellite imagery 	Gazipur
1623.	Monitoring of Ground Water Level at Different BARI Stations	<ul style="list-style-type: none"> Installation of observation well at different BARI stations Regular monitoring of groundwater level at 7 days interval and To determine the depletion of groundwater level 	Gazipur
1624.	Dissemination of Water Saving Technologies for Non Rice Crops in Hilly Area	<ul style="list-style-type: none"> To promote the water saving technologies among the farmers in hilly area and To study the suitability of the water saving technologies 	Gazipur
FARM MACHINERY AND POST-HARVEST ENGINEERING DIVISION			
Conservation Tillage, Seeding and Planting Machinery			
1625.	Evaluation and improvement of four-wheel tractor operated zero till planter for upland crops	<ul style="list-style-type: none"> To evaluate four-wheel tractor operated zero till planter for conservation agricultural practice and to evaluate the performance for planting of upland crops 	Rajshahi and Rangpur
1626.	Design and development of a power tiller operated vegetable seedling transplanter	<ul style="list-style-type: none"> To design and fabricate a power tiller operated vegetable seedling transplanter and to test and performance evaluation of the vegetable seedling transplanter 	Gazipur
1627.	Improvement and validation of BARI seeder for grain crops under different cropping patterns and soil conditions	<ul style="list-style-type: none"> To standardize seeder for seeding of different grain crops in relation to seeding uniformity and to evaluate the field performance of the seeder along with farmers feedback on different grain crops under different soil types 	Patuakhali and Rajshahi
1628.	Energy use analysis of conservation agriculture tillage systems for rice-maize cropping pattern	<ul style="list-style-type: none"> To assess productivity of conservation agriculture (CA) tillage practices and evaluate energy efficiency and financial profitability of the systems 	Gazipur
1629.	Performance evaluation of power operated seeder in southern region of Bangladesh	<ul style="list-style-type: none"> To reduce the turn-around time in the southern area and to evaluate the performance of power operated seeder for different Rabi crops 	Barishal Patuakhali Faridpur and Rajbari
1630.	Design and development of four-wheel tractor operated bed planter cum seeder	<ul style="list-style-type: none"> To design four-wheel tractor operated bed planter cum seeder and to fabricate and evaluate the designed seeder 	Ishurdi, Pabna

Sl. No.	Research Title	Major Objective (s)	Location (s)
1631.	Optimizing the performance of precision seeder for sowing maize and other crops	<ul style="list-style-type: none"> To improve the design and settings of rotary blades and press wheel to optimize strip-till furrow cutting and to evaluate field performance of the precision seeder for sowing maize and other crops 	Gazipur
1632.	Development of a power tiller operated garlic planter	<ul style="list-style-type: none"> To modify the seed metering mechanism of existing BARI seeder suitable for garlic planting and to evaluate technical and financial performance of garlic planter 	Gazipur Bogura and Pabna
Inter Cultural Operation and Irrigation Implement			
1633.	Design and development of prilled urea applicator for up-land crops	<ul style="list-style-type: none"> To develop prilled urea applicator for increasing fertilizer use efficiency and to increase crop production with saving of fertilizer and environment pollution. 	Rahmatpur Barishal
1634.	Adaptive trials of battery-operated rotary type weeder	<ul style="list-style-type: none"> To evaluate field performance of battery operated weeder in different regions of Bangladesh and to disseminate this technology among the farmers' through adaptive trials 	Bandarban Kishoreganj Bogura and Sherpur
1635.	Design and development of automatic irrigation device	<ul style="list-style-type: none"> To develop microcontroller based automatic irrigation systems and to reduce losses, drudgery and costs related to irrigation in Bangladesh 	Gazipur
1636.	Design and fabrication of petrol engine operated self-propelled boom sprayer for field crops	<ul style="list-style-type: none"> To design and fabrication of petrol engine operated self-propelled boom sprayer and to increase the spray efficiency of boom sprayer 	Jashore and Ishurdi, Pabna
1637.	Design and fabrication of petrol engine operated multi-crop weeder	<ul style="list-style-type: none"> To prepare a power operated weed removing machine for multiple crops (Dry and wet land) and to reduce the human drudgery, time and cost of weed elimination 	Jashore
1638.	Adoption of PTOS and upland weeder for pulse cultivation in southern region of Bangladesh	<ul style="list-style-type: none"> To determine the type of weeder needed for cultivation of pulses (mungbean and cowpea) using PTOS and to determine the cost-effective practices of pulse cultivation 	Barisal and Patuakhali (On-farm)
1639.	Design and development of aeration system for live fish transportation (Duration: 2 years)	<ul style="list-style-type: none"> To design and fabricate subsurface water aeration device and to evaluate and compare the developed system with the existing aeration system 	Gazipur Pabna Natore and Rajshahi
Harvesting Machinery			
1640.	Development and adoption of low-cost small potato planter and	<ul style="list-style-type: none"> To adopt efficient small potato planter and potato harvester in the farmers' field of potato growing areas and to build up 	Bogura and Jashore

Sl. No.	Research Title	Major Objective (s)	Location (s)
	harvester for profitable potato production	capacity among the machinery researcher, extension worker, manufacturer, and rural young people in potato machinery activities	
1641.	Design and development of power tiller operated onion harvester	<ul style="list-style-type: none"> To develop a power tiller operated onion harvester and to evaluate the performance of onion harvester for harvesting of onion 	Gazipur
1642.	Development of tractor mounted maize harvester	<ul style="list-style-type: none"> To design and fabrication of a tractor mounted maize harvester and to evaluate the performance of the maize harvester 	Gazipur
1643.	Evaluation and improvement of self-propelled power thresher	<ul style="list-style-type: none"> To evaluate the existing different models of large size self-propelled multi crop power thresher and to find out their problems and to improve for better performance 	Pabna, Bogura, Rajshahi Rangpur and Dinajpur
1644.	Determination of threshing parameters of BARI thresher for different pulse crops	<ul style="list-style-type: none"> To evaluate and improve different operational parameters influencing the threshing of pulse crop at various moisture content and to evaluate the technical and economic performance of the improved thresher 	Ishurdi, Pabna
1645.	Design and development of a small-scale barley thresher	<ul style="list-style-type: none"> To design and develop a small-scale barley thresher that can efficiently thresh hulled and non-hulled varieties of barley and to evaluate performance of the barley thresher 	Gazipur
1646.	Development of a power operated sunflower thresher	<ul style="list-style-type: none"> To design and fabricate a power operated sunflower thresher and to test performance of the sunflower thresher and compare the cost of shelling with traditional methods 	Gazipur and Patuakhali
1647.	Design and development of a groundnut harvesting machine	<ul style="list-style-type: none"> To design and fabricate self-propelled groundnut harvesting machine and to test the groundnut harvesting machine. 	Jamalpur
1648.	Development and performance evaluation of cashew nut sheller	<ul style="list-style-type: none"> To improve and fine tuning of postharvest cashew nut machinery and to evaluate the performance of the postharvest machinery in laboratory and farmers' fields also To create awareness and disseminate the improved postharvest technology among farmers, traders, and manufacturers through demonstration, training, booklet, and workshop etc. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
Postharvest Machinery			
1649.	Development of soymilk making machinery	<ul style="list-style-type: none"> To design and develop a soymilk making machinery and to evaluate the performance of the sunflower dehuller 	Gazipur
1650.	Design and development of a small-scale millet dehuller	<ul style="list-style-type: none"> To design and develop a small-scale millet dehuller that can efficiently dehull millets and To evaluate performance of the dehuller 	Gazipur
1651.	Development and application of a mechanical lifter for safe handling of agricultural products	<ul style="list-style-type: none"> To develop a low-cost mechanical lifter for safe handling of agricultural products especially for loading/unloading in trucks and To test the performance of the lifter and fine tune the design based on early users' feedback and to promote the lifter in the sector of agricultural products storage and distribution 	Gazipur
1652.	Development of a cream separator (Duration: 3 years)	<ul style="list-style-type: none"> To design and fabrication of a cream separator and to evaluate the performance of the cream separator 	Gazipur and Pabna
1653.	Integration of postharvest technologies and best practices in the value chains of fruits and vegetables	<ul style="list-style-type: none"> To develop and up-scaling of improved tools, machinery and means of harvesting, handling and packaging of fruits and vegetable and to validate the postharvest tools and machineries in maintenance of quality and reducing losses in the value chain and To make an economic analysis of the machine. 	Gazipur Rajshahi and Bogura
1654.	Development of a mobile spice grinding machine for small entrepreneur	<ul style="list-style-type: none"> To develop a mobile spice grinding machine for grinding of turmeric, chilli, coriander, etc. and to test the performance of mobile spice grinding machine and To disseminate mobile spice grinding machine among the small entrepreneur 	Gazipur
1655.	Upscaling and fine tuning of coffee postharvest processing machinery for making good quality of coffee in the hilly region of Bangladesh	<ul style="list-style-type: none"> To improve and fine tuning of postharvest coffee machinery and to evaluate the performance of the postharvest machinery in laboratory and farmers' fields and To create awareness and disseminate the improved postharvest technology among farmers, traders, and manufacturers through demonstration, training, booklet, and workshop etc. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1656.	Design and development of a power operated chilli seed separator	<ul style="list-style-type: none"> To design and develop a power operated chilli seed separator and to testing and performance evaluation of the chilli seed separator and To compare the performance of chilli seed separator over the conventional method 	Gazipur
1657.	Design and development of a power operated tomato seed separator	<ul style="list-style-type: none"> To design and develop a power operated tomato seed separator and to evaluate of the tomato seed separator and To compare the performance of tomato seed separator over the conventional method 	Gazipur
1658.	Improvement of coconut tree climber	<ul style="list-style-type: none"> To improve and evaluate the performance coconut tree climber and to study the economic feasibility of the machine and To conduct training, demonstration and workshop of tree climber at users level. 	Gazipur and Barishal
1659.	Performance evaluation and improvement of selected LSU dryer for drying of maize	<ul style="list-style-type: none"> To evaluate the performance and improve selected LSU dryer for drying of maize and To analysis the economic performance the dryer 	Gazipur and Jamalpur
1660.	Improvement and evaluation of BARI mini oil expeller	<ul style="list-style-type: none"> To improve, fabricate and test a mini oil expeller for expelling of different oil seeds and To evaluate performance of the oil expeller in the farmers' fields. 	Gazipur and Jamalpur
1661.	Design and development of green coconut dewatering tool and cutting machine	<ul style="list-style-type: none"> Design, fabrication and performance evaluation of the green coconut cutting machine and dewatering tool 	Gazipur and Barishal
Renewable Energy			
1662.	Up-scaling and application of solar photovoltaic pump for smallholder irrigation and household appliances in the central coastal region of Bangladesh	<ul style="list-style-type: none"> Up-scaling and improvement of solar pump for higher capacity and efficiency and To test the efficacy of application of solar energy for pumping and household appliances for year round uses, and field trials of solar pump for irrigation of high value crops and year round uses of solar energy in household appliances in the central coastal region of Bangladesh 	Gazipur Patuakhali Barguna and Bhola

Sl. No.	Research Title	Major Objective (s)	Location (s)
1663.	Performance evaluation of a BARI solar cabinet dryer for drying vegetables in hilly area	<ul style="list-style-type: none"> To evaluate the performance of BARI solar cabinet dryer for drying radish and To compare the economic benefit between BARI solar cabinet dryer and conventional method 	Khagrachari
1664.	Development and performance evaluation of a solar assisted cabinet dryer for vegetable seeds	<ul style="list-style-type: none"> To design and fabricate of a solar assisted cabinet dryer for drying of vegetable seeds and to evaluate performance of the cabinet dryer for drying of different vegetable seeds 	Gazipur and Jashore
1665.	Development of solar energy powered air ventilated natural onion storage system	<ul style="list-style-type: none"> To develop a solar energy powered forced air ventilated onion storage system and To evaluate the performance of storage system for storage of onion for different periods. 	Gazipur and Bogura
Transfer of Technology			
1666.	Present status of using dies, punch, jigs and figs by the local manufacturers in Bangladesh	<ul style="list-style-type: none"> To survey and quantify the level of using die, punch, jigs and figs to ensure quality of machine and interchangeability of spare parts and To develop some die, punch, jigs and figs to improve quality of the agri-machinery <p>Location: Gazipur, Jamalpur, Faridpur, Chuadanga, Sylhet, Bogra, Dinajpur, Rajshahi, Rangpur, Comilla and Kishorganj</p>	
1667.	Adaptability testing of BARI developed agricultural machinery for crop establishment in coastal area	<ul style="list-style-type: none"> Evaluation of the performance of BARI developed machinery for crop establishment in coastal area and to dissemination of these machinery in coastal area <p>Location : Patuakhali, Shatkhira, Bhola, Noakhali and Chottogram.</p>	
1668.	Training and demonstration on BARI developed agricultural machinery	<ul style="list-style-type: none"> To demonstrate and transfer newly developed farm machinery in farmers' fields and to develop skillness of the operator and finally to disseminate the machines to the farmers and users <p>Location: Gazipur, Chattagram, Sylhet, Cumilla, Rangpur, Rajshahi, Bagura, Barishal, Khulna and Jeshore</p>	
POSTHARVEST TECHNOLOGY DIVISION			
1669.	Preservation of plum using brine solution	<ul style="list-style-type: none"> To extend the shelf life of plum in an ambient condition. 	Gazipur
1670.	Effect of different pretreatments and temperatures on the quality of plum	<ul style="list-style-type: none"> To extend the storage life of plum; To minimize the decay and physiological loss in fresh plum 	Gazipur
1671.	Optimization of processing method for plum chutney	<ul style="list-style-type: none"> To develop simple methods of processing of plum chutney and To evaluate the shelf life of the product 	Gazipur
1672.	Standardization of plum pickle	<ul style="list-style-type: none"> To develop simple methods of processing of plum and 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To determine the keeping quality of the product 	
1673.	Effect of osmo-dehydration parameters on the quality of plum	<ul style="list-style-type: none"> To optimize the dehydration condition of plum during storage in an ambient condition and To produce value-added products 	Gazipur
1674.	Effect of vacuum frying on the quality attributes of selected fruit slices	<ul style="list-style-type: none"> To investigate the temperature and time on the physicochemical parameters of fruit slices and To improve fried product quality and reduced oil oxidation 	Gazipur
1675.	Standardization of guava-pineapple-pea nut bar from unutilized portion (pomace) of guava and pineapple through natural and bioactive approaches	<ul style="list-style-type: none"> To develop byproduct from unutilized portion (pomace) of pineapple and guava and To evaluate the byproduct storage stability. 	Gazipur
1676.	Extraction and characterization of sweet potato and cassava starch	<ul style="list-style-type: none"> To extract and profile of BARI sweet potato varieties starch To characterize the starch extracted from potato, sweet potato and cassava 	Gazipur
1677.	Effect of starch coating on quality and shelf life of fresh cut guava and pineapple	<ul style="list-style-type: none"> To utilize the potato, sweet potato and cassava starch and To evaluate the effect of potato, sweet potato, cassava and corn starch edible coatings on the quality attributes of fresh-cut guava and pineapple 	Gazipur
1678.	Effect of extraction conditions on quality of pectin from guava and lemon wastes and its application in pineapple jelly	<ul style="list-style-type: none"> To compare the characteristics of guava and lemon pectin and To find out which pectin is more suitable for pineapple jelly 	Gazipur
1679.	Formulation of potato-sweet potato flour for its diversified use	<ul style="list-style-type: none"> To process potato and sweet potato flour for its storage stability 	Gazipur
1680.	Effect of blanching on quality and shelf life of tender green jackfruit slices	<ul style="list-style-type: none"> To evaluate the shelf life and nutritional quality of green jackfruit slices after blanching and To evaluate shelf life and nutritional quality of green jackfruit slices 	Gazipur
1681.	Optimization of processing technique of roasted jackfruit seed	<ul style="list-style-type: none"> To find out the optimum roasting temperature and time for jackfruit seed and To evaluate shelf life and nutritional quality of roasted jackfruit seed 	Gazipur
1682.	Optimization of processing method for	<ul style="list-style-type: none"> To determine the best processing protocol for RTC of jackfruit and 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	Ready-to-Cook Jackfruit product	<ul style="list-style-type: none"> To evaluate the packaging technique on quality and shelf life of RTC 	
1683.	Optimization of processing parameters for osmotically dehydrated mango slices/cubes	<ul style="list-style-type: none"> To standardize the processing parameter for osmotically dehydrated mango slices/cubes and To select the suitable package for longer storing the product 	Gazipur
1684.	Optimization of processing parameters for osmo-dehydrated sapota products	<ul style="list-style-type: none"> To develop osmo-dehydrated products from sapota fruit and To optimize the processing parameters (syrup concentration and drying temperature) for the sapota products 	Gazipur
1685.	Standardization of processing parameters for Sapota jam	<ul style="list-style-type: none"> To develop fruit jam from Sapota and To optimize the processing parameters of the fruit jam 	Gazipur
1686.	Effect of postharvest treatments and packaging techniques on quality and shelf life of jackfruit vegetable meat	<ul style="list-style-type: none"> To find out the proper packaging technique for preservation and To determine physicochemical changes and microbiological quality of the different packaged jackfruit vegetable meat 	Gazipur
1687.	Baseline survey on existing hazardous agents in selected fruits and vegetables in supply chain at selected locations in Bangladesh	<ul style="list-style-type: none"> To identify and quantification of different hazards in selected produce To generate information of hazardous chemicals and microbial agents/jam 	Gazipur
1688.	Study on the heat stress and edible surface coating for improving quality and shelf life of selected fruits (mango, papaya, pineapple)	<ul style="list-style-type: none"> To determine the best combination of heat stress temperature with duration of selected fruits and To evaluate the edible surface coating by assessing the overall fruit quality and shelf life 	Gazipur
1689.	Determination of hazardous chemicals in selected fruits and vegetables in supply chain at selected locations in Bangladesh	<ul style="list-style-type: none"> To quantify the different hazards in selected fruits and vegetables and To evaluate microbial load in selected produce 	Gazipur
1690.	Determination of formaldehyde in selected fruits and vegetables	<ul style="list-style-type: none"> To detect formaldehyde in selected fruits and vegetables and To quantify naturally produced formaldehyde in the produce 	Gazipur
1691.	Effect of different sanitizer on postharvest quality of selected fresh fruits and vegetables	<ul style="list-style-type: none"> To identify the effective sanitizer as washing material for selected fruits and vegetables and To prevent microbial infection and increase postharvest quality of the produce 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1692.	Comparison of nutrient composition, antioxidant activity and common phytochemicals of BARI Mango varieties	<ul style="list-style-type: none"> To document the nutritional composition and common and phytochemical components of BARI mango varieties and To compare the nutritional quality of these different varieties with commercial varieties in order to promote their production and create consumer awareness 	Gazipur
1693.	Two days training program for dissemination of postharvest handling, processing, preservation and packaging technologies of crops	<ul style="list-style-type: none"> Dissemination of matured technologies on postharvest handling, packaging, processing, and preservation at different levels of end users and Creation of income generation for the rural poor people with a view to alleviate poverty 	Gazipur
SEED TECHNOLOGY DIVISION			
1694.	Effect of seed storage condition and packaging materials on seed quality of onion seeds	<ul style="list-style-type: none"> To know the effect of seed storage condition on seed quality of onion and To know the effect of seed storage medium on seed quality of onion 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1695.	Effect of plant spacing and fertilizer dose on seed yield and quality of onion	<ul style="list-style-type: none"> To identify a suitable plant spacing along with fertilizer dose for higher seed yield with better seed quality of onion. 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1696.	Assessment of Seed Quality of Brinjal Through Accelerated Aging Method	<ul style="list-style-type: none"> To study certain changes associated with loss of viability during accelerated ageing of brinjal and To predict the duration of brinjal seed storability in storage. 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1697.	Effect of Plant Growth Regulator on Quality Seed Production of Onion	<ul style="list-style-type: none"> To observe the effect of plant growth regulators on growth, yield and quality seed production of onion and To find out the suitable growth regulators and its concentrations for better growth, yield and quality seed production of onion. 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1698.	Removal Effect of Lateral Vines on Seed Yield and Quality of Bottle Gourd	<ul style="list-style-type: none"> To assess the removal of lateral vines for quality seed production of bitter gourd 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1699.	Effect of Soaking Duration and Types of Priming on Germination and Seedling Vigor in Bitter Gourd	<ul style="list-style-type: none"> To find out the proper duration of soaking and the suitable type of priming agent on germination and seedling vigor in bitter gourd. 	Gazipur Rangpur Jeshore Barishal and Panchagarh

Sl. No.	Research Title	Major Objective (s)	Location (s)
1700.	Effect of <i>Moringa olifera</i> leaf Extract on Okra Seed Germination Under Salinity Stress	<ul style="list-style-type: none"> To enhance seed germination under salinity stress 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1701.	Effect of Fruit Size and Seed Position on Seed Quality of Bottle Gourd	<ul style="list-style-type: none"> To find out optimum size of fruits and seed position in fruit for getting quality seed of bottle gourd. 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1702.	Impact of Foliar Boron Sprays on Seed Yield and Seed Quality of Capsicum	<ul style="list-style-type: none"> To find out optimum dose of Boron spray for getting higher seed yield and quality seed of Capsicum. 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1703.	Effect of sulphur fertilizer application on seed yield and seed quality of rapeseed	<ul style="list-style-type: none"> To investigate the role of sulphur on seed quality of rapeseed 	Gazipur Rangpur, Jeshore Barishal and Panchagarh
1704.	Effect of seed storage condition and packing materials on seed quality of groundnut	<ul style="list-style-type: none"> To know the effect of seed storage condition on seed quality of groundnut and To know the effect of seed storage medium on seed quality of groundnut 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1705.	Effect of after ripening period and drying methods on seed quality of bitter gourd	<ul style="list-style-type: none"> To identify the appropriate after ripening period along with drying method for better seed quality of bitter gourd 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1706.	Effect of plant growth regulators and their time of application on seed yield and quality of soybean	<ul style="list-style-type: none"> To identify the appropriate after ripening period along with drying method for better seed quality of bitter gourd 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1707.	Influence of plant growth regulators on seed yield and seed quality in okra	<ul style="list-style-type: none"> To evaluate the impact of plant growth regulators on seed yield and seed quality in okra 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1708.	Study on the degeneration rate of BARI Bt Begun seed and its effect on fruit yield	<ul style="list-style-type: none"> To determine the degeneration rate of Bt begun seed and To know the effect of aged seed on fruit yield 	Gazipur Rangpur Jeshore Barishal and Panchagarh
1709.	Integrated Nutrient Management for Quality Seed Production in	<ul style="list-style-type: none"> To study the effect of different nutrient management quality seed production of French bean. 	Gazipur Rangpur Jeshore Barishal and

Sl. No.	Research Title	Major Objective (s)	Location (s)
	French bean (<i>Phaseolus vulgaris</i> L.)		Panchagarh
BIOTECHNOLOGY DIVISION			
1710.	Standardization of micropropagation protocol for BARI Strawberry varieties and their large-scale multiplication	<ul style="list-style-type: none"> To develop an effective micropropagation protocol for large scale multiplication of strawberry varieties 	Gazipur
1711.	<i>In vitro</i> regeneration of chickpea	<ul style="list-style-type: none"> To develop an efficient regeneration protocol for future transformation work of chickpea 	Gazipur
1712.	Large scale production of BARI released banana through tissue culture	<ul style="list-style-type: none"> To produce large number of propagating materials for BARI released banana varieties 	Gazipur
1713.	Rescue of Amritsagar banana from extinction through biotechnological approaches	<ul style="list-style-type: none"> To prevent the extinction of Amritsagar banana variety and reintroduce its cultivation at farmers level 	Gazipur
1714.	Micropropagation of date palm (<i>Phoenix dactylifera</i> L.)	<ul style="list-style-type: none"> To develop an effective micropropagation protocol for large scale multiplication of date palm 	Gazipur
1715.	<i>In vitro</i> regeneration of papaya (<i>Carica papaya</i> L.)	<ul style="list-style-type: none"> To develop an efficient regeneration protocol of papaya for future transformation work 	Gazipur
1716.	<i>In vitro</i> regeneration of soybean (New)	<ul style="list-style-type: none"> Development of <i>in vitro</i> regeneration protocol for soybean 	Gazipur
Molecular genetics and genetic engineering			
1717.	Marker-assisted transfer of salt tolerance <i>Nax</i> genes in Bangladeshi wheat varieties	<ul style="list-style-type: none"> Crossing of salt-tolerant <i>Nax</i> wheat lines with selected Bangladeshi wheat varieties and Molecular marker assisted selection for the salt tolerance traits in the adapted varieties 	Gazipur
1718.	PCR-based detection and characterization of papaya viruses in Bangladesh	<ul style="list-style-type: none"> Diagnosis and characterization of papaya viruses prevailing in Bangladesh using advanced molecular techniques and Generating information for developing virus resistant transgenic papaya 	Gazipur
1719.	Study on relative bacterial wilt tolerance of Bt eggplant varieties and their non-Bt parent lines	<ul style="list-style-type: none"> To observe the comparative performance of BARI Bt eggplant varieties and their corresponding non-Bt eggplant varieties on artificial inoculation of bacterial wilt pathogen To characterize the collected bacterial wilt isolates 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1720.	Collection and identification of germplasm of cultivated crop and wild species for drought and salinity stress tolerance	<ul style="list-style-type: none"> To find out drought tolerant germplasm of cultivated crop and wild species and To find out salinity tolerant germplasm of cultivated crop and wild species 	Gazipur
1721.	Transformation of tomato for broad spectrum resistance against leaf curl viruses	<ul style="list-style-type: none"> Construction of appropriate plasmid vectors for virus derived resistance against ToLCV and Transformation of tomato plants with vectors harboring cloned virus sequences. 	Gazipur
1722.	Exploring the development of gametophyte-mediated genetic transformation systems in crop plants (New)	<ul style="list-style-type: none"> Exploring gametophyte-mediated genetic transformation systems in model plants and Application of gametophyte – mediated genetic transformation systems in crop plants 	Gazipur
Validation trial / On farm trial			
1723.	Validation trial of tissue cultured plantlets of strawberry, banana, and dragon fruit under field conditions	<ul style="list-style-type: none"> To evaluate the field performance of plantlets raised from tissue culture 	Gazipur
FtFBPbt brinjal and LRB potato research activities			
1724.	Sustaining of Bt eggplant in Bangladesh by implementing effective stewardship	<ul style="list-style-type: none"> To sustain the first GE crop Bt brinjal in the long run 	Gazipur
1725.	Confined field trial of late blight resistant single RB gene hybrid potato clone (Diamant x D951-137)	<ul style="list-style-type: none"> To find out the backbone free superior hybrid clone from the trial 	Gazipur
PLANT PHYSIOLOGY DIVISION			
Developmental Physiology			
1726.	Phytochemicals accumulation in Potato cultivars at variable harvesting dates	<ul style="list-style-type: none"> To quantify different phytochemicals concentrations at various harvesting dates 	Gazipur
1727.	Exogenous application of gibberellin and abscisic acid in formation of Potato tuber under aeroponic culture	<ul style="list-style-type: none"> To evaluate the exogenous effects of gibberellin and abscisic acid in the formation of Potato tuber. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1728.	Morpho-physiological and yield response of Tomato as influenced by different plant growth regulators	<ul style="list-style-type: none"> To observe the Morpho-physiological and yield responses of Tomato as influenced by different plant growth regulators and To compare the efficacy of trialed plant growth regulators available in the market 	Gazipur
1729.	Stolon development and tuber formation pattern of Potato varieties at different planting dates	<ul style="list-style-type: none"> To investigate stolon development and tuber formation in different Potato varieties influence by planting date To study the influence of planting dates on stolon development and tuber formation 	Gazipur
Stress physiology			
1730.	Physiological changes in Wheat varieties/genotypes under high temperature stress at reproductive stage	<ul style="list-style-type: none"> To investigate the different physiological changes of Wheat varieties subjected to high temperature stress at reproductive stage and To identify the temperature tolerant variety on the basis of physiological behavior 	Gazipur
1731.	Physiological responses of Wheat genotypes under drought condition	<ul style="list-style-type: none"> To evaluate the physiological mechanism in growth and yield of Wheat influenced by drought for growing drought prone environment 	Gazipur
1732.	Screening of Wheat genotypes against salinity stress in hydroponic system	<ul style="list-style-type: none"> To find out suitable Wheat genotype (s) for growing in saline prone environment 	Gazipur
1733.	Evaluation of morpho-physiological and biochemical indicators in salt tolerant tomato varieties	<ul style="list-style-type: none"> To study the morpho-physiological responses of Tomato to salinity stress 	Gazipur
1734.	Morpho-physiological evaluation of selected tomato varieties to different water regimes	<ul style="list-style-type: none"> To find out drought tolerant Tomato variety(s) and To study the morpho-physiological responses of Tomato under drought stress 	Gazipur
1735.	Physiological and biochemical responses of selected Sesame genotypes at vegetative stage to waterlogging stress	<ul style="list-style-type: none"> To explore the dynamics and mechanisms of action of anaerobic proteins and antioxidant enzymes in waterlogged Sesame. 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1736.	Morpho-physiological changes of selected Grasspea genotypes under salinity stress	<ul style="list-style-type: none"> To identify salt tolerant Grasspea genotype(s) using morpho-physiological traits 	Gazipur
1737.	Photosynthetic efficiency, dry matter partitioning, growth and yield of Sunflower under rainfed condition	<ul style="list-style-type: none"> To evaluate Photosynthetic efficiency, dry matter partitioning, growth and yield of Sunflower under rainfed condition 	Gazipur
1738.	Phenological and physiological responses of Groundnut to high temperature stress at seedling and flowering stages	<ul style="list-style-type: none"> To investigate flowering, pegging and pod development ratio of Groundnut genotypes and To study of physiological response against heat stress 	Gazipur
1739.	Morpho-physiological changes of different Linseed genotypes under salinity stress	<ul style="list-style-type: none"> To evaluate physiological response of Linseed genotypes to salinity stress 	Gazipur
1740.	Response of Soybean varieties to salinity stress	<ul style="list-style-type: none"> To evaluate physiological changes of different Soybean genotypes to salinity stress 	Gazipur
1741.	Evaluation of physiochemical, growth and yield responses of different Garlic varieties under salinity stress	<ul style="list-style-type: none"> To observe the performances of different Garlic varieties at varying saline level 	Gazipur
VERTEBRATE PEST DIVISION			
1742.	Program: Vertebrate Pest management Project: Rodent pest management: Evaluation of some plant oils as repellent against rodents	<ul style="list-style-type: none"> To find out an effective rodent repellent to minimize crop losses due to rodents 	Gazipur and Rajshahi
1743.	Program: Vertebrate Pest management Comparative efficacy of different traps (live, kill and Gopher) for controlling rodents	<ul style="list-style-type: none"> To evaluate the success of different traps for controlling rats and To find out the suitable trap for differencondition for capturing rats 	Gazipur Rajshahi and Dinajpur
1744.	Program: Vertebrate Pest management Project: Rodent pest management: Development of suitable rodent control techniques	<ul style="list-style-type: none"> to collect information on rodent pest species composition to know the pest status and damage pattern in floating bed and iii. to developed effective rodent management techniques 	Barishal

Sl. No.	Research Title	Major Objective (s)	Location (s)
	in floating agricultural system		
1745.	Evaluation and modification of some indigenous techniques for controlling field rat	<ul style="list-style-type: none"> To develop highly effective technique to control the rodent pest 	Gazipur and Pabna
1746.	Collection, identification and documentation of available owl species in Bangladesh	<ul style="list-style-type: none"> To document owl species' presence/absence and To determine the species' distribution and abundance 	Gazipur Rajshahi and Barishal
1747.	Study on the food preference of owl species	<ul style="list-style-type: none"> To know the food habit and preference of barn owl 	Gazipur and Rajshahi
1748.	Study on owl biology in relation to its ecology and maximizing breeding capacity	<ul style="list-style-type: none"> To know the reproductive biology and breeding frequency of owl species 	Gazipur
1749.	Efficacy of Commando, Zill phosphide and Zero phosphide for controlling rats	<ul style="list-style-type: none"> To evaluate the efficacy of commando, zill phosphide and zero phosphide for controlling rats. 	Dinajpur
1750.	Survey of squirrel damage in different fruits and vegetables in selected areas of Bangladesh	<ul style="list-style-type: none"> To know the incidence and status of squirrel and To know the nature and extent of damage of squirrel in fruits and vegetables. 	Gazipur
1751.	Effectiveness of seed treatment with anthraquinone and chlorpyrifos for reducing bird damage in sunflower and maize crops	<ul style="list-style-type: none"> To develop effective bird repellent for controlling bird damage in sunflower and maize crops 	Chattogram Gazipur Moulvibazar and Jeshore
1752.	Program: Vertebrate Pest management Project: Bird pest management: Efficacy of netting against pest bird's management in maize and sunflower	<ul style="list-style-type: none"> To find out the effectiveness of netting ribbon as bird repellent from crop's field and To know the incidence of bird in crop's field 	Gazipur
AGRICULTURAL ECONOMICS DIVISION			
1753.	Establishment of Agriculture Research Station, Bari, Gopalganj and Eco- Friendly Agricultural	<ul style="list-style-type: none"> To know the present status of different crop production practiced by the farmers To document some baseline information for future impact assessment of the project and 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	Development Project in South-western Part Through Strengthening of Research: A Baseline Survey	<ul style="list-style-type: none"> To explore the constraints and opportunities related to production and socioeconomic aspects of the sample farmers for future expansion. 	
1754.	Socioeconomic and Environmental Study on Rooftop Gardening in the Chittagong city areas	<ul style="list-style-type: none"> To document socioeconomic profile of the sample households To identify the plants composition/diversity and container used in the RTG as an economic point of view and capacity of the roof To estimate fresh produces consumption and nutritional status of the rooftop gardener To evaluate the socioeconomic and environmental factors that are affecting sustainability of the RTG's; To identify the constraints and opportunities for future rooftop gardening in the Chattogram city areas 	Gazipur
1755.	Socioeconomic Analysis of Exotic Hybrid Vegetable Cultivation in Some Selected Areas of Chattogram District	<ul style="list-style-type: none"> To document socioeconomic profile of sample farmers To compare exotic hybrid vegetable cultivation along with native variety available in Bangladesh in-terms profitability and preferences To identify the factors for choosing exotic hybrid vegetable cultivation in the areas and To derive policy recommendations 	Gazipur
1756.	Socioeconomic Assessment of Production, Processing and Marketing of Crops at Farm Level in Southern Region of Bangladesh: A Baseline Study	<ul style="list-style-type: none"> To know the present status of production, processing and marketing of different crops at farm level To document some baseline data and information for assessing future impacts of the project and To explore the constraints and opportunities of producing demand-led HVCs production, processing and marketing under changing climate condition. 	Gazipur
1757.	Supply Chain Analysis of Malta (Sweet Orange) in Selected Areas of Bangladesh	<ul style="list-style-type: none"> To estimate the profitability of sweet orange production 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To identify the major supply chain involved in the marketing of sweet orange To compute marketing costs, margins, price spread and efficiency of marketing channels; and To identify constraints in production and marketing of sweet orange and to suggest appropriate policy measures. 	
1758.	Assessment of Value Chain Analysis of Lentil in Some Selected Areas of Jashore Region	<ul style="list-style-type: none"> To analyze the existing value chain of lentil marketing To assess the value addition at different levels of value chain and To assess the marketing cost and margin and prices spread in different level 	Gazipur
1759.	Effect of Climate Change Adaptation Strategies on Production Efficiency of Selected Pulse Crops in Bangladesh	<ul style="list-style-type: none"> To identify climate change adaptation strategies used by pulse growers To identify factors that influence the choice of climate change adaptation strategies used by pulse growers To estimate technical and profit efficiencies in pulse production and To determine the impact of climate change adaptation strategies used by the farmers on pulse production efficiency; 	Gazipur
1760.	Study on Nutritional Status and Food Security of the People from Former Enclaves (Chit Mahal) Inside Bangladesh	<ul style="list-style-type: none"> To explore farming arrangement, consumption pattern and nutritional status of the people from former enclaves inside Bangladesh To identify major livelihood patterns and the way of living of this people To make policy recommendations for enhancing enclaves people livelihood. 	Gazipur
1761.	Adoption and Impact of BARI reaper and BARI multi-crop thresher at Farm Level in Bangladesh	<ul style="list-style-type: none"> To determine the adoption status and factors influencing adoption of BARI Zero-till Planter, BARI reaper and BARI multi-crop thresher at farm level To evaluate the impacts of using BARI Zero-till Planter, BARI reaper and BARI multi-crop thresher on crop profitability and farmers' income and livelihoods and To recommend some policy guidelines. 	Gazipur
1762.	Ex-post Economic Impact Assessment of Investment of BARI	<ul style="list-style-type: none"> To estimate the economic benefit and costs associated with BARI Aam-4 (hybrid) research and extension 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	Aam-4 (hybrid) in Bangladesh	<ul style="list-style-type: none"> To estimate and compare the distribution of economic benefits between producers and consumers and To measure some economic efficiency indicators 	
1763.	Export Potentials and Varietal Adoption of Potato in Bangladesh	<ul style="list-style-type: none"> To know the varietal adoption of potato at farm level To estimate the financial and economic profitability of potato To explore the exportable potato varieties and export potentials and To determine the export constraints of potato and to suggest some policy guidelines from the study results 	Gazipur
1764.	Agricultural Diversification and its Impact on Food Security in Some Selected Areas of Bangladesh	<ul style="list-style-type: none"> To find out the agricultural diversification index To estimate the food security of the sample farm household To identify the contribution of pulses crop in the farm household food security and To determine the relationship between agricultural diversification and food security 	Gazipur
1765.	Survey on Existing Weed Species and Methods of Weed Control in Farmers' Field During Rabi Season	<ul style="list-style-type: none"> To identify the existing common and major weed species in different rabi crops at farmers' field in the selected locations and To record the weed control methods that farmers usually practice in different crops during rabi season. 	Gazipur
1766.	Socio Economic Study on Production and Farm Level Storage System of Potato in Munshiganj	<ul style="list-style-type: none"> To determine the profitability of potato cultivation by the farmers in Munshiganj To estimate the input use patterns of potato production and To assess the status of farm level storage systems of potato. 	Gazipur
1767.	Economy of indigenous potato cultivars and its impact on farmers livelihood in Mymensingh region of Bangladesh	<ul style="list-style-type: none"> To study the agro-technology of indigenous potato production by farmers To assess the impacts of indigenous potato cultivation on farmers livelihood pattern and To identify the problems and constraints faced by the potato farmers in selected areas 	Gazipur
1768.	Identification of dominant cropping	<ul style="list-style-type: none"> To identify the major cropping patterns and their agronomic practices and 	Gazipur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	patterns in some selected areas of Mymensingh district Duration: July, 2019- June, 2020	<ul style="list-style-type: none"> To determine the economic viability of dominant cropping patterns. 	
AGRICULTURAL STATISTICS AND INFORMATION & COMMUNICATION TECHNOLOGY (ASICT)			
1769.	Characterising dry season's agricultural landuse in northwest Bangladesh: spatial dynamics and water use	<ul style="list-style-type: none"> Assess spatiotemporal dynamics of land cover and land use Assess spatiotemporal dynamics of cropping systems (type, extent) and Assess the water use of dry season irrigation using remote sensing <p>Location: Panchagarh, Nilphamari, Thakurgaon, Rangpur, Dinajpur, Jaipurhat, Kurigram, Gaibandha, Chapainawabganj Naogaon, Bogra, Rajshahi, Natore, Sirajganj, Pabna and Lalmonirhat</p>	
1770.	Assessment of cropping patterns for sustainable intensification in drought prone ecosystem using remote sensing and geospatial modeling	<ul style="list-style-type: none"> To develop dry season's crop types maps in the study areas using remote sensing image analysis To develop agro-environmental resources and constraints geo-database from remote sensing image analysis and secondary data acquisition and To suggest location specific suitable cropping patterns for sustainable intensification by geospatial modeling. 	Rajshahi, Chapainawabganj and Naogaon
1771.	Determinants of Household Food Security in Rural Bangladesh: An Imperial Analysis of Farm Level Data	<ul style="list-style-type: none"> To explore the present status of food security in Bangladesh on the basis of availability, accessibility and utilization of food To identify the factors influencing food security/ insecurity in Bangladesh To establish an econometric time Series model to forecast the future food security status and To formulate policy guidelines /suggestions 	Kurigram Magura Bandarban Khagrachari and Shariatpur
1772.	Effects of Climatic Factors on the Yield of BARI released Potato Varieties	<ul style="list-style-type: none"> To identify the most effective BARI released potato varieties in different location of Bangladesh and Assessment of possible change in yield of BARI released potato varieties due to climate factors. 	Secondary data of whole Bangladesh
1773.	Satellites and ICT based location and crop specific irrigation	<ul style="list-style-type: none"> To develop a satellite and ICT based crop and location specific irrigation 	Nilphamari Chapainawabganj Kurigram

Sl. No.	Research Title	Major Objective (s)	Location (s)
	advisory system for growing more with less water	advisory generation and dissemination system for Bangladesh conditions <ul style="list-style-type: none"> To optimize irrigation advisory information for effective understanding by the farmers and To evaluate farmers, benefit of usability of the developed system over conventional methods. 	Rangpur Pabna and Kushtia
1774.	Non-destructive determination of Mango maturity using hyperspectral remote sensing techniques	<ul style="list-style-type: none"> To establish relationship of spectral reflectance of mango fruits with its major physico-chemical parameters To predict the mango maturity conditions from hyperspectral remote sensing reflectance data 	Gazipur
1775.	Development of an interface for Genotype Environment (GE) Interaction Analysis using R.	<ul style="list-style-type: none"> To develop user friendly interface using R software that gives an output for genotype stability and location value using univariate and multivariate models 	Gazipur
REGIONAL AGRICULTURAL RESEARCH STATION, JAMALPUR			
Agro-forestry			
1776.	Intercropping of winter and summer vegetables in mango orchard	<ul style="list-style-type: none"> To find out the suitability of vegetables in mango orchard as intercrop and To evaluate the economic benefit of intercropping 	Jamalpur
1777.	Intercropping of winter and summer vegetables in guava orchard.	<ul style="list-style-type: none"> To find out the suitability of vegetables in guava orchard as intercrop and To evaluate the economic benefit of intercropping 	Jamalpur
Propagation Technique			
1778.	Effect of time and method of grafting on the success, survivability of Jackfruit,	<ul style="list-style-type: none"> To find out suitable time and method of grafting and To observe effect of grafting using tissue paper 	Jamalpur
Cultural management			
1779.	Observation trial of jackfruit plant under water logging condition	<ul style="list-style-type: none"> To observe jackfruit plant under water logging condition and To observe effect of water-soaked seed for tolerance of submerged condition 	Jamalpur
1780.	Performance of summer brinjal variety at different sowing time at Jamalpur region	<ul style="list-style-type: none"> To find out the suitable variety and time for year-round brinjal production at Jamalpur region 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
Varietal development of flower			
1781.	Performance study of bari developed gladiolous varieties at Jamalpur region	<ul style="list-style-type: none"> To evaluate the performance of Gladiolous varieties at Jamalpur Region 	Jamalpur
1782.	Collection and maintenance of cactus and succulents Duration: 1 st week of January	<ul style="list-style-type: none"> To find out superior germplasm of Cactus and succulents and To conserve genetic resources of Cactus and succulents. 	Jamalpur
Tuber crop improvement (Organic Production Technology)			
1783.	Determination of compost tea dose with other manure on organic potato production (BARI Alu-28)	<ul style="list-style-type: none"> To enhance the mineralization rate and availability of plant nutrients To increase the microbial population in soil To reduce the late blight diseases of potato and To increase the yield and quality of potato 	Jamalpur
Multiple cropping			
1784.	Performance of different khesari (<i>Lathyrus sativus</i> L.) cultivars relaying with T. Aman rice	<ul style="list-style-type: none"> To find out the suitable cultivars of khesari for increasing production by the resource-poor farmers under relay condition 	Jamalpur
Germplasm conservation and regeneration			
1785.	Maintenance and conservation of collected PGR	<ul style="list-style-type: none"> To collect and characterize seed will be conserved 	Jamalpur
Exploration and collection of PGR			
1786.	Survey and collection of teasl gourd and pointed gourd germplasm for food and agriculture in Sherpur and Jamalpur district of Bangladesh	<ul style="list-style-type: none"> To collect the diversity of teasl gourd and pointed gourd. 	Jamalpur
Germplasm characterization, evaluation and utilization			
1787.	Characterization of rapeseed Duration: 1 st week of October 2019 to April 2020.	<ul style="list-style-type: none"> To know the genetic diversity and To develop a photographic monograph. 	Jamalpur
Varietal development			
1788.	Development of cooking quality and high yield potential hyacinth bean (<i>Lablab purpureus</i> L.)	<ul style="list-style-type: none"> To identify the best hybrid combinations for cooking quality and yield characters and To extent of heterosis 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
Millets Improvement: Variety Development			
1789.	Characterization and maintenance of foxtail millet germplasm	<ul style="list-style-type: none"> To characterize materials based on various morphological traits and To find out the variability of the collected materials. 	Jamalpur
1790.	Large plot observation trial of finger millet	<ul style="list-style-type: none"> To select better performing Finger millet line 	Jamalpur
1791.	Demonstration of BARI Kaon-2 at different Char areas of Jamalpur regions	<ul style="list-style-type: none"> To popularize BARI released Kaon variety among the farmers of the regions 	Jamalpur
Multiple cropping			
1792.	Performance of relay bitter gourd in chilli+lalsak intercropping at medium high land	<ul style="list-style-type: none"> To improve the cropping system through intercropping chilli with onion 	Jamalpur
1793.	Performance of relay bitter gourd in chilli+onion intercropping at medium high land	<ul style="list-style-type: none"> To improve the cropping system through intercropping chilli with onion 	Jamalpur
1794.	Effect of variety and sowing dates of year-round sweet potato production	<ul style="list-style-type: none"> To find out the suitable variety and management practice for year-round production and Supply nutrient and economic return 	Jamalpur
Chemical aspects of soil management			
1795.	Effect of municipal solid waste compost (mswc) on soil carbon accumulation and tomato yield	<ul style="list-style-type: none"> To enhance carbon accumulation in soil and minimize environmental pollution and To increase crop yield 	Jamalpur
1796.	Application of organic liquid fertilizer (vermiwash) on brinjal growth and quality	<ul style="list-style-type: none"> To investigate the role of vermiwash on growth, yield and quality of brinjal and To find out suitable foliar dose of vermiwash for maximizing the yield of brinjal. 	Jamalpur
1797.	Development of permanent block for identifying nutrient deficiencies symptom of crops round the year	<ul style="list-style-type: none"> Development of a demonstration site in RARS Jamalpur for the farmers, extension personnel and researcher round the year and Facilitate the knowledge about plant nutrient deficiency symptom Create visual materials for lecture and discussion and Identify the complexity of symptoms caused by nutrient deficiencies along with pest attack 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1798.	Changes of biochar and soil properties after 5-years of in-situ aging under field conditions	<ul style="list-style-type: none"> Investigate the changing nature of biochar and its effect on soil properties Identify the soil health improvement after amendment and Accelerate the sustainable carbon sequestration in to soil 	Jamalpur
1799.	Organic nutrient management through tricho compost on the growth and yield of garlic in Jamalpur	<ul style="list-style-type: none"> To study the effect of compost and tricho compost getting the healthy and vigorous plants for high yield goal and To reduce the chemical fertilizers and pesticide through organic manuring to evaluate benefit cost ratio of Trichocompost for profitable production of garlic 	Jamalpur
1800.	Organic nutrient management through organic manuring and biofertilizers on the yield of garlic and soil health enrichment in Jamalpur	<ul style="list-style-type: none"> To study the effect of compost and tricho compost getting the healthy and vigorous plants for high yield goal and To reduce the chemical fertilizers and pesticide through organic manuring 	Jamalpur
Integrated Pest Management of Papaya mealy bug			
1801.	Development of eco-friendly management approach against mealy bug, <i>Paracoccus marginatus</i> in papaya	<ul style="list-style-type: none"> To find out the appropriate management approach for controlling mealy bug in papaya 	Jamalpur
Integrated Pest Management of Aroid			
1802.	Development of eco-friendly management approach against <i>Spodopteralitura</i> in aroid	<ul style="list-style-type: none"> To find out the eco-friendly management approach for controlling <i>Spodopteralitura</i> in aroid 	Jamalpur
Fungal Disease Management			
1803.	Screening of mustard lines/varities against alternaria blight or leaf spot disease	<ul style="list-style-type: none"> To find out resistant lines/varities against the diseases. 	Jamalpur
Fungal Disease Management (Agronomic Management)			
1804.	Impact of climatic condition of jamalpur on white mold of mustard	<ul style="list-style-type: none"> To establish a relationship between climate change and disease incidence. 	Jamalpur
Disease survey			
1805.	Survey of major diseases of chilli in jamalpur and sherpur districts	<ul style="list-style-type: none"> To identify different diseases of chilli to determine the severity of the diseases 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
Conservation Tillage, Seeding and Planting Machinery			
1806.	Environmental sustainability and energy efficiency of Conservation Agriculture (CA) based cropping system of Wheat-Mungbean-T. Aman in Jamalpur region	<ul style="list-style-type: none"> • Determination of crop performance for different tillage (Zero tillage (ZT) and Minimum tillage) based cropping system • Evaluation of GHG emission and other environmental impacts for the three crops-based cropping system • Effects of CA system on energy efficiency for the cropping system 	Jamalpur
Conservation Tillage and Agricultural Biomass Management			
1807.	Influence of tillage system and crop residue retention on sustainable soil carbon accumulation in Wheat-Mungbean-T. Aman cropping system	<ul style="list-style-type: none"> • Evaluate the effect of different tillage practices on Carbon accumulation in soil • Evaluate the effect of agricultural crop residue retention on Carbon accumulation in soil and • Evaluate GHG emission on crop residue retention using tillage system. 	Jamalpur
Varietal Development of Groundnut			
1808.	Adaptive Trial of Groundnut	<ul style="list-style-type: none"> • To know the performance of advanced lines and their adaptation in farmers' field 	Jamalpur
1809.	medium kernel groundnut lines in char area in Jamalpur	<ul style="list-style-type: none"> • To select the early mature genotypes with medium kernel size and high yield 	Jamalpur
1810.	Evaluation of small size kernel groundnut lines in the char area of Jamuna river, in Jamalpur	<ul style="list-style-type: none"> • To select the early mature genotypes with small kernel size and high yield. 	Jamalpur
1811.	Evaluation of large kernel groundnut lines at char area in Jamalpur	<ul style="list-style-type: none"> • To select the early mature genotypes with large kernel size and high yield. 	Jamalpur
1812.	Evaluation of high oleic lines of groundnut	<ul style="list-style-type: none"> • To select the high oleic genotypes with early mature and high yield. 	Jamalpur
1813.	Seed production of BARI released varieties and advanced lines of groundnut	<ul style="list-style-type: none"> • Different groundnut varieties' and advanced lines seed will be produced. 	Jamalpur
1814.	Adaptive Trial of Groundnut in Mymensingh region	<ul style="list-style-type: none"> • Advance lines of groundnut will be evaluated to select high yield with wide adapted lines suitable for cultivation in Mymensingh reason. 	Jamalpur
1815.	Performance of BARI & BINA released HYV groundnut varieties	<ul style="list-style-type: none"> • BARI and BINA released HYV of groundnut will be evaluated to select the best performers. 	Jamalpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
REGIONAL AGRICULTURAL RESEARCH STATION, JASHORE			
1816.	Effect of foliar application of urea on growth and yield of BARI released short duration lentil variety	<ul style="list-style-type: none"> To assess the performance of yield and yield contributing characters by application of urea fertilizer as foliar spray 	Jashore
1817.	Growth and yield performance of BARI Chola-9 as influenced by nipping practices at different growth stages.	<ul style="list-style-type: none"> To find out the effect of nipping practices on growth, yield and yield contributing Character of chickpea To find out an ideal nipping practice for better yield in chickpea and To find out economic return of nipping practices. 	Jashore
1818.	Effect of sowing date and fertilizer management on cabbage and cauliflower in summer season at Jashore region	<ul style="list-style-type: none"> To find out the optimum sowing date and fertilizer management for cabbage and cauliflower in the summer season 	Jashore
1819.	Survey on PGR use pattern of different crops at farmers level in Jashore region	<ul style="list-style-type: none"> To know the PGR use pattern presently at farmers level To know the dose and frequency of PGR use at farmers level To know the effect of used PGR on different crops at farmers level and To know the farmers attitude towards PGR 	Jashore and Khulna Region
1820.	Integrated Weed Management of Mukhikachu (<i>Colocasia esculenta</i>)	<ul style="list-style-type: none"> To find out the economic and effective way of weed management in Mukhikachu cultivation 	Jashore
1821.	Study on the Relationship of Weather Factors in Disease Development in Onion	<ul style="list-style-type: none"> To know the effect of weather factors on the incidence and severity of different diseases of summer onion 	Jashore
1822.	Survey and identification of major diseases of vegetable crops in saline area	<ul style="list-style-type: none"> To identify existing diseases of vegetable crops in the saline area and To assess the disease status of different field/vegetable crops in the saline area 	Satkhira Khulna and Bagerhat
1823.	Effect of drip irrigation on the growth, yield and water use efficiency of different horticultural crops	<ul style="list-style-type: none"> To know the effect of drip irrigation on crop growth and yield To study the effect of drip irrigation on water use efficiency and To save irrigation water from being wasted 	Jashore
1824.	Collection and evaluation of different	<ul style="list-style-type: none"> To evaluate the germplasm in respect of yield and quality and 	Jashore

Sl. No.	Research Title	Major Objective (s)	Location (s)
	indigenous fruits and vegetables in Jashore region	<ul style="list-style-type: none"> To release as a variety 	
1825.	Survey and identification of major diseases of vegetable crops in saline area	<ul style="list-style-type: none"> To identify existing diseases of vegetable crops in the saline area and To assess the disease status of different field/vegetable crops in the saline area. 	Khulna Satkhira and Bagerhat
1826.	Performance of short duration lentil variety at farmers field	<ul style="list-style-type: none"> To see the performance of short duration lentil variety at farmers field 	Tularampur, Narail
1827.	Design and fabrication of Petrol Engine Operated Self-Propelled Boom Sprayer for field crops	<ul style="list-style-type: none"> Design and fabrication of petrol engine operated self-propelled boom sprayer Increase the spray efficiency of boom sprayer and Ensure proper application (spray) of herbicide and insecticide as well as reduce spray time consumption. 	-
1828.	Design and fabrication of Petrol Engine operated Multi-crop Weeder	<ul style="list-style-type: none"> Multi-crop Weeder for upland crops (dry and high moisturized soil) and Reduce the weed elimination cost, human effort and efficient weed elimination 	Jashore
1829.	Survey of White Fly and Shooty Mold Attacking Coconut and Guava Tree in Jashore Region of Bangladesh	<ul style="list-style-type: none"> To document the white fly and shootymold attacking coconut tree and To document the damage severity of coconut tree 	Jashore
1830.	Development of Eco-Friendly Management Approach Against Flea Beetle Attacking Cabbage and Mustard	<ul style="list-style-type: none"> To find out the most effective management option for flea beetle on cabbage and To know the damage severity of the pest 	Jashore
1831.	Analysis of value chain of lentil in some selected areas of Jashore region	<ul style="list-style-type: none"> To analyze the existing value chain of lentil marketing and To assess the value addition at different levels of the valuechain 	Jashore Jhenaidah and Kushtia
1832.	Intercropping of cabbage with Bt. brinjal	<ul style="list-style-type: none"> To find out the performance of cabbage as intercrop with Bt. brinjal To increase total productivity and economic return. 	Tularampur Narail
1833.	Intercropping of spinach with Bt brinjal	<ul style="list-style-type: none"> To find out the performance of spinach as intercrop with brinjal and To increase total productivity and farmer's income. 	Tularampur Narail
1834.	Performance of field pea as relay cropping with T. aman rice	<ul style="list-style-type: none"> To see the performance of field pea as relay crop with T. aman and To increase the income of farmers 	Jhikargacha Jashore

Sl. No.	Research Title	Major Objective (s)	Location (s)
1835.	Performance of grass pea as relay crop with T. Aman rice in low lying areas of Narail	<ul style="list-style-type: none"> To evaluate the performance of BARI khesari varieties and To disseminate and popularize the varieties among the farmers 	Tularampur Narail
1836.	Development of alternate cropping pattern Maize-T. Aus-T. Aman rice against Boro -Fallow-T. Aman rice	<ul style="list-style-type: none"> To fit Maize and T. Aus in the cropping pattern and To improve the existing cropping pattern /increase cropping intensity 	Kalijnj, Jhenaidah
1837.	Development of alternate cropping pattern Field pea-Boro-T. Aus rice-T. Aman rice against Mustard-Boro-T. Aman rice	<ul style="list-style-type: none"> To improve the existing cropping pattern by inclusion of field pea and T. ausrice To increase cropping intensity and farmers' income 	Jhikargacha Jashore
REGIONAL AGRICULTURAL RESEARCH STATION, AKBARPUR, MOULVIBAZAR			
1838.	Assessing vase life of gladiolus through integrated approach by using organic, cheaper and available vase life enhancing Preservatives	<ul style="list-style-type: none"> To develop a sustainable and cost-effective measure to enhance vase life of gladiolus 	Moulvibazar
1839.	Effect of date of sowing and fertilizer management of gladiolus in Sylhet region	<ul style="list-style-type: none"> To find out the standard fertilizer dose and increase the duration of availability of gladiolus flower in Sylhet region. 	Moulvibazar
1840.	Collection and evaluation of orchid germplasm in Sylhet region	<ul style="list-style-type: none"> To develop new variety(s) of orchid 	Moulvibazar
1841.	Evaluation of existing ber germplasm at RARS, Akbarpur	<ul style="list-style-type: none"> To develop new variety(s) of ber 	Moulvibazar
1842.	Intercropping dragon fruit with sweet gourd in semi hilly region of Sylhet	<ul style="list-style-type: none"> To develop a sustainable cropping pattern in semi hilly areas 	Moulvibazar
1843.	Collection and evaluation of Summer hyacinth bean in Sylhet region	<ul style="list-style-type: none"> To develop new variety (s) of summer hyacinth bean 	Moulvibazar
1844.	Performance of BARI released potato varieties in Sylhet region	<ul style="list-style-type: none"> To know performances of the newly released improved potato varieties To know the yield stability of potato varieties in Sylhet region 	Moulvibazar

Sl. No.	Research Title	Major Objective (s)	Location (s)
1845.	Demonstration trial of promising BARI released potato varieties	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties and To collect the feedback of the newly released varieties 	Moulvibazar
1846.	Adaptive trial with newly released panikachu varieties	<ul style="list-style-type: none"> To test the adaptability of the improved varieties of Panikachu at farmers' level. 	Moulvibazar
1847.	Evaluation of newly released mukhikachu varieties in Sylhet region	<ul style="list-style-type: none"> To know the performance of the improved varieties of Mukhikachu 	Moulvibazar
1848.	Performance of chickpea varieties in acidic soil at Moulvibazar region	<ul style="list-style-type: none"> To select chickpea varieties suitable for Moulvibazar areas of Bangladesh 	Moulvibazar
1849.	Effect of sowing date on growth and yield of garden pea at Moulvibazar district	<ul style="list-style-type: none"> To find out the appropriate sowing time of garden pea at acidic soil of Moulvibazar district 	Moulvibazar
1850.	Performance of different mungbean varieties in Moulvibazar area	<ul style="list-style-type: none"> To select mungbean varieties suitable for acidic soil of Moulvibazar areas of Bangladesh. 	Moulvibazar
1851.	Comparative performance trial of local & imported maize hybrids in acidic soil condition	<ul style="list-style-type: none"> To observe the performance of local and imported maize hybrids in acidic soil and select better one (s) and To share the information of the better performing hybrids to the farmers. 	Moulvibazar
1852.	Survey on postharvest practices and losses of some major vegetables in Sylhet region	<ul style="list-style-type: none"> To know the present postharvest practices and To minimize the postharvest losses 	Moulvibazar
1853.	Exploration and identification of indigenous fruits grown in the Sylhet region of Bangladesh	<ul style="list-style-type: none"> To explore the different types of indigenous fruits grown in the Sylhet region To identify the cultivation practices of selected indigenous fruits and To estimate the economic and social values of indigenous fruits. 	Moulvibazar
REGIONAL AGRICULTURAL RESEARCH STATION, RAHMATPUR, BARISHAL			
1854.	Nutrient management for mustard as relay crop with <i>T. aman</i> rice under Ganges Tidal Floodplain	<ul style="list-style-type: none"> To develop nutrient management package for mustard as relay crop with <i>T. aman</i> rice under Ganges Tidal Floodplain 	Barishal
1855.	Performances of selected minor cereals as relay crops with <i>T. aman</i> rice	<ul style="list-style-type: none"> To evaluate the performances of selected minor cereals as relay crops with <i>T. aman</i> rice. 	Barishal

Sl. No.	Research Title	Major Objective (s)	Location (s)
	in southern region of Bangladesh		
1856.	Effects of weed management practices on the growth and yield of pineapple in southern region of Bangladesh	<ul style="list-style-type: none"> To develop suitable weed management package for pineapple 	Barishal
1857.	Effect of seedling age on yield of transplanted sunflower under zero tillage condition in southern region of Bangladesh	<ul style="list-style-type: none"> To find out the optimum age of sunflower seedling for getting higher yield under zero tillage condition in southern region of Bangladesh 	Barishal
1858.	Effect of age on bottle gourd seedling growth of floating bed and its subsequent effect on yield under plain land condition	<ul style="list-style-type: none"> To find out the optimum age of floating seedling of bottle gourd for transplanting on plain land condition 	Barishal
1859.	Integrated nutrient management for pumpkin on floating bed cum trellis	<ul style="list-style-type: none"> To develop nutrient management practice for pumpkin on water hyacinth made floating bed and To increase the yield of pumpkin under floating agriculture. 	Barishal
1860.	Development of floating bed cum trellis (tidal model) for creeper vegetables cultivation under tidal flooded ecosystem of Bangladesh	<ul style="list-style-type: none"> To develop floating bed cum trellis (tidal model) for creeper vegetables cultivation under tidal flooded ecosystem of Bangladesh 	Barishal
1861.	Integrated vegetables and fish cultivation through plastic drum based floating system in flooded ecosystem of Bangladesh	<ul style="list-style-type: none"> To integrated vegetables and fishes under floating agriculture system 	Barishal
1862.	Sorjan Based Integrated Farming Systems for Increasing Agricultural Productivity under Tidal Flooding Ecosystem in Southern Region of Bangladesh	<ul style="list-style-type: none"> To increase agricultural productivity and profitability of sorjan systems through integration of crops, fishery, dairy, ducks and other enterprises 	Barishal
1863.	Effect of plant spacing on potato under zero tillage mulch condition in southern coastal region of Bangladesh	<ul style="list-style-type: none"> To determine the effect of plant spacing on potato under zero tillage mulch condition for coastal saline soil 	Barishal

Sl. No.	Research Title	Major Objective (s)	Location (s)
1864.	Performance of garlic varieties under different tillage and mulch conditions in southern coastal region of Bangladesh	<ul style="list-style-type: none"> To find out the suitable variety (ies) for cultivation in southern coastal region of Bangladesh 	Barishal
1865.	Collection and evaluation of murta plant germplasm in Bangladesh	<ul style="list-style-type: none"> To collect and evaluate the murta plant germplasm from different locations of Bangladesh and To identify the suitable line(s) of murta plant 	Barishal
1866.	Effects of management practices on the yield and quality of murta plant products in Bangladesh	<ul style="list-style-type: none"> To develop suitable management package for increasing the yield of murta plant products and To improve the quality of murta plant products in Bangladesh 	Barishal
1867.	Effects of different chemical treatments of murta cane on the quality of shital pati in Bangladesh	<ul style="list-style-type: none"> To develop suitable chemical treatment/process of murta cane for improving the quality of shital pati in Bangladesh 	Barishal
Agricultural Engineering Division			
1868.	Performance Evaluation of Power Operated Seeder in Southern Region of Bangladesh	<ul style="list-style-type: none"> To reduce the turn-around time of in the southern area and To evaluate the performance of power operated seeder for different <i>Rabi</i> Crops 	Barishal
1869.	Adoption of PTOS and upland Weeder on pulse cultivation in southern region of Bangladesh	<ul style="list-style-type: none"> To determine the type of weeder needed for cultivation of pulses (mungbean and cowpea) using PTOS 	Barishal
1870.	Design and development of prilled urea applicator for up-land crops	<ul style="list-style-type: none"> To develop prilled urea applicator for increasing fertilizer use efficiency 	Barishal
Entomology Division			
1871.	Survey, monitoring and documentation of major insect pests in vegetable and spices crops grown on floating bed	<ul style="list-style-type: none"> To document the damage severity of insect pests attacking Cucumber, sweet gourd, okra, and Indian spinach grown on floating bed 	Barishal
1872.	Survey, monitoring, and documentation of <i>Riptortus pedestris</i> (Hemiptera: Alydidae) in southern region of Bangladesh	<ul style="list-style-type: none"> To record the severity of <i>Riptortus pedestris</i> in soybean, cowpea and mungbean 	Barishal

Sl. No.	Research Title	Major Objective (s)	Location (s)
1873.	Development of bio-rational pest management package against major insect pests of cucurbits grown on floating bed	<ul style="list-style-type: none"> To develop bio-rational based pest management package against major insect pests of cucurbit 	Barishal
1874.	Comparison of insect pest populations between floating bed and conventional practices in cucurbits	<ul style="list-style-type: none"> To know the difference of insect pest's population between floating agriculture and conventional practices and To assess the crop loss by insect pests in floating agriculture and conventional practices. 	Barishal
1875.	Development of bio-rational management approach against <i>Spodoptera litura</i> and <i>Diaphania indica</i> in cucumber grown on floating bed	<ul style="list-style-type: none"> To develop bio-rational based pest management package against <i>Spodoptera litura</i> and <i>Diaphania indica</i> of cucurbit. 	Barishal
1876.	Development of bio-rational management approach against insect pest complex of okra grown on floating bed	<ul style="list-style-type: none"> To develop appropriate strategy for managing the insect pest complex ofokra grown on floating bed. 	Barishal
1877.	Development of bio-rational pest management approach against thrips-mite complex in chilli grown on floating bed	<ul style="list-style-type: none"> To develop appropriate strategy for managing the thrips-mites complex infesting chilligrown on floating bed. 	Barishal
1878.	Development of environment friendly management approach against coconut mite	<ul style="list-style-type: none"> To find out eco-friendly management practices against coconut mite 	Barishal
1879.	Survey, monitoring and documentation of major insect pests of betel leaf	<ul style="list-style-type: none"> Identification of insect pests attacking betel leaf and Determination of damage severity of insect pests 	Barishal
1880.	Development of environment friendly management approach against betel vine black fly, <i>Aleurocanthus</i> spp. (Aleyrodidae: Hemiptera)	<ul style="list-style-type: none"> To find out eco-friendly management practices against betel vine black fly 	Barishal

Sl. No.	Research Title	Major Objective (s)	Location (s)
1881.	Rodent species composition, their damage pattern and control measures in murta plant field	<ul style="list-style-type: none"> To developed effective rodent management techniques for murta plant field 	Barishal
1882.	Bio-rational based cultural management packages on infestation of coconut mite <i>Aceria guerreronis</i> Keifer	<ul style="list-style-type: none"> To find out the best bio-rational based management package against <i>Aceria guerreronis</i> Keiferinfesting coconut 	Barishal
1883.	Nutritional based cultural management packages on infestation of coconut mite <i>Aceria guerreronis</i> Keifer	<ul style="list-style-type: none"> To find out the best nutritional based management package against <i>Aceria guerreronis</i> Keiferinfesting coconut 	Barishal
1884.	Development of integrated management packages on infestation of coconut mite <i>Aceria guerreronis</i> Keifer	<ul style="list-style-type: none"> To developing environment friendly management package against <i>Aceria guerreronis</i> Keiferinfesting coconut 	Barishal
Horticulture Research Centre (HRC)			
1885.	Year-round vegetable production on floating bed	<ul style="list-style-type: none"> To select suitable vegetable production technique on floating bed round the year 	Barishal
1886.	Performance of different vegetables seedlings on floating bed	<ul style="list-style-type: none"> To find out the suitable vegetables for raising seedlings on floating bed 	Barishal
1887.	Effect of growth media and seedling age for the growth and production under floating bed condition	<ul style="list-style-type: none"> To find out the suitable growing media and age of vegetables for raising seedlings on floating bed. 	Barishal
1888.	Evaluation of cowpea germless	<ul style="list-style-type: none"> To identify suitable germplasm for higher yield and quality 	Barishal
1889.	Collection and evaluation of banana (Sabra kola) germplasm	<ul style="list-style-type: none"> To select superior one(s) for commercial cultivation 	Barishal
1890.	Effect of vermicompost and other fertilizers on cultivation of tomato	<ul style="list-style-type: none"> To evaluate comparative efficacy of vermicompost 	Barishal
1891.	Effect of different mulches on growth and yield of tomato	<ul style="list-style-type: none"> To determine the effect of various mulches on growth and yield of tomato. 	Barishal
1892.	Collection and evaluation of drumstick germplasm	<ul style="list-style-type: none"> To evaluate superior germplasm 	Barishal

Sl. No.	Research Title	Major Objective (s)	Location (s)
1893.	Effect of vermicompost on growth, yield and quality of sweet orange	<ul style="list-style-type: none"> To study the effect of vermicompost on growth, morpho-physical attributes of sweet orange 	Barishal
1894.	Collection and evaluation of velvet apple (<i>Diospyros discolor</i>) germplasm	<ul style="list-style-type: none"> To enrich the germplasm pool for velvet apple (bilati gub) and to screen the superior line 	Barishal
1895.	Growth and yield performance of bitter gourd on vertical trellis	<ul style="list-style-type: none"> To find out the effects of vertical trellis on the growth and productivity of cucurbitaceous vegetables 	Barishal
On Farm Research Division			
1896.	Adaptive trial of BARI newly released mustard varieties at Gournadi, Barishal	<ul style="list-style-type: none"> To evaluate the performance of newly released mustard varieties in Barishal 	Barishal
1897.	Adaptive trial with BARI released grasspea varieties in Barishal	<ul style="list-style-type: none"> To evaluate the performance of BARI released HYV grasspea varieties in Barishal 	Barishal
1898.	Adaptive trial with BARI newly released country bean varieties on Sorjan bed	<ul style="list-style-type: none"> To evaluate the performance of BARI released HYV Country bean varieties in sorjan bed 	Barishal
1899.	Effect of seed rate on relay grasspea	<ul style="list-style-type: none"> To find out the optimum seed rate for relayed grasspea 	Barishal
Plant Pathology			
1900.	Survey on Malta diseases at Southern Region of Bangladesh	<ul style="list-style-type: none"> To identify the diseases of malta and to determine the severity of the diseases 	Barishal
1901.	Determination of transmission mechanism of okra yellow vein clearing mosaic virus (OKYVCMV)	<ul style="list-style-type: none"> To determine transmission mechanisms of OKYVCMV of Okra 	Barishal
1902.	Survey, isolation and identification of major diseases of vegetable and spice crops on floating bed cultivation in Bangladesh	<ul style="list-style-type: none"> To identify different diseases and its causal organisms and To assess the disease status (disease incidence and severity) 	Barishal
1903.	Management of powdery mildew of pumpkin on floating bed cum trellis	<ul style="list-style-type: none"> To find out an effective chemical in controlling powdery mildew of pumpkin 	Barishal
1904.	Management of white rust of red amaranth under floating agriculture	<ul style="list-style-type: none"> To find out an effective chemical in controlling white of red amaranth 	Barishal

Sl. No.	Research Title	Major Objective (s)	Location (s)
1905.	Management of downy mildew (<i>Pseudoperonospora cubensis</i>) of cucurbits on floating bed cum trellis	<ul style="list-style-type: none"> To find out an effective and suitable control measure of the disease and to reduce disease severity and increase yield. 	Barishal
Soil Science Division			
1906.	Effect of Boron fertilization on lentil (BARI Masur-8) in Barishal region	<ul style="list-style-type: none"> To find out the response of BARI Masur-8 to boron fertilizer 	Barishal
1907.	Nutrient management of Sesame in Barishal region	<ul style="list-style-type: none"> To develop nutrient management package for sesame in this region 	Barishal
1908.	Integrated nutrient management for chilli in southern region of Bangladesh	<ul style="list-style-type: none"> To find out efficacy of poultry manure with chemical fertilizer on chilli production 	Barishal
Tuber Crop Research Centre TCRC)			
1909.	Effect of bio slurry on yield and yield components of potato (<i>Solanum tuberosum</i> L.)	<ul style="list-style-type: none"> To assess the efficacy of bio slurry from on-farm biogas production plants as a soil amendment and potato 	Barishal
1910.	Collection and Evaluation of <i>Xanthosoma sagittifolium</i> (L.) Schott the arrow leaf elephant ear	<ul style="list-style-type: none"> To evaluate best germplasm 	Barishal
REGIONAL AGRICULTURAL RESEARCH STATION, HATHHAZARI, CHATTOGRAM			
1911.	Rainwater Harvesting Potential for Rooftop Gardening in Chittagong Region	<ul style="list-style-type: none"> To find out rainwater harvesting potentiality to irrigate rooftop vegetables and fruits 	Hathazari Chattogram
1912.	Optimal Irrigation for Minimizing Fruit Cracking of Mango in Chattogram Region	<ul style="list-style-type: none"> To explore suitable irrigation scheduling to mitigate mango fruit cracking during dry season 	Hathazari Chattogram
1913.	Socio-economic and Environmental Study on Rooftop Gardening in the Chittagong city areas	<ul style="list-style-type: none"> To document socioeconomic profile of the sample households To identify the plants composition/diversity and container used in the RTG as an economic point of view and capacity of the roof To estimate fresh produces, and disposal pattern and 	Hathazari Chattogram

Sl. No.	Research Title	Major Objective (s)	Location (s)
		<ul style="list-style-type: none"> To identify the constraints and opportunities for sustainability of rooftop gardening 	
1914.	Preferential Analysis of Native and Exotic Hybrid Bitter Gourd Cultivation in Selected Areas of Chattogram District	<ul style="list-style-type: none"> To document socioeconomic profile of sample farmers To compare exotic bitter gourd cultivation along with native variety available in Bangladesh in-terms profitability and preferences and To identify the factors for choosing exotic hybrid vegetable cultivation in the areas 	Hathazari Chattogram
1915.	Development of Four crop-based cropping patterns for increasing cropping intensity and productivity for Chittagong region	<ul style="list-style-type: none"> To increase the cropping intensity and productivity through crop intensification Sustain food security, poverty reduction, resource management and livelihood improvement of ever-increasing populations and To increase farmer's income, access to food and nutrition, employment opportunity and woman's participation in agriculture 	Hathazari Chattogram
1916.	Effect of sowing date-based temperature on wheat at Chittagong region	<ul style="list-style-type: none"> To find out the suitable heat tolerant wheat variety 	Hathazari Chattogram
1917.	Screening of Cowpea (<i>Vigna unguiculata</i> L. Walp) genotypes for high yield and drought tolerance	<ul style="list-style-type: none"> To observe the effect of temperature on physiological behavior and To find out the suitable variety for higher pod yield 	Hathazari Chattogram
1918.	Characterization of novel species for degradation of propiconazole fungicide in mango	<ul style="list-style-type: none"> To explore the new approach for degrading the propiconazole in mango by the novel species 	Hathazari, Chattogram
1919.	Validation trail of <i>Bacillus oryzicola</i> YC7007 for controlling bacterial wilting in eggplant	<ul style="list-style-type: none"> To explore the new approach for controlling the wilting of eggplant by the endophytic bio-agent YC7007 	Hathazari Chattogram
1920.	The efficacy test of formulated product by <i>Bacillus siamensis</i> YC7012 for controlling greening disease of	<ul style="list-style-type: none"> To check the antagonistic activities by formulated product of <i>Bacillus</i> sp. YC7012 against the greening disease (<i>CandidatusLiberibacter</i> spp.) of BARI Malta 1 	Hathazari Chattogram

Sl. No.	Research Title	Major Objective (s)	Location (s)
	sweet orange (BARI Malta-1)		
1921.	Characterization of newly isolated endophytic <i>Bacillus</i> isolates against major pathogens	<ul style="list-style-type: none"> To find out the eco-friendly antagonistic endophytic novel <i>Bacillus</i> species to major pathogens. 	Hathazari Chattogram
1922.	Collection, Characterization and Evaluation of Brinjal Germplasm for Development of Wilt Resistant Variety for Chattogram Region	<ul style="list-style-type: none"> To find out promising wilt resistant brinjal germplasm and To find out the best genotype against Bacterial Wilt 	Hathazari Chattogram
1923.	Effect of different types of management practices to control major insects of guava	<ul style="list-style-type: none"> To find out the most effective management practice for controlling insect pests and To increase the yield and quality of guava 	Hathazari Chattogram
1924.	Effect of irrigation on fruit cracking of mango in Chattogram region	<ul style="list-style-type: none"> To explore the optimal period of irrigation during dry season in Chattogram region 	Hathazari Chattogram
1925.	Collection and evaluation of exotic cucumber germplasm at RARS, hathazari, chattogram	<ul style="list-style-type: none"> To evaluate the exotic cucumber germplasm and To select best line (s) in order to release as variety 	Hathazari Chattogram
1926.	Collection and evaluation of sponge gourd germplasm at RARS, hathazari, chattogram	<ul style="list-style-type: none"> To evaluate promising sponge gourd germplasm and To select best line(s) in order to release as variety. 	Hathazari Chattogram
REGIONAL AGRICULTURAL RESEARCH STATION, BARI, BURIRHAT, RANGPUR			
Plant Pathology			
1927.	Yield loss assessment of late blight resistant potato variety/germplasm under natural inoculum pressure	<ul style="list-style-type: none"> To evaluate the resistant ability of varieties / germplasms and To assess the yield loss due to disease 	Rangpur
1928.	Development of cost-effective integrated fertilizer management practice utilizing agricultural waste tobacco dust	<ul style="list-style-type: none"> To develop cost-effective integrated fertilizer management practice utilizing agricultural waste tobacco dust and To manage soil borne disease 	Rangpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
1929.	Management of soil-borne diseases of Cucumber, Bottle gourd and Banana using tobacco dust	<ul style="list-style-type: none"> To evaluate the efficacy of tobacco dust against soil-borne diseases of Cucumber, Bottle gourd and Banana 	Rangpur
1930.	Management of soil-borne diseases of vegetables (Tomato and Brinjal) for seedling production using tobacco dust	<ul style="list-style-type: none"> To evaluate the efficacy of tobacco dust against soil-borne diseases of vegetables (Tomato and Brinjal) for seedling production 	Rangpur
Entomology			
1931.	Status of pod borer complex and their natural enemies on country bean	<ul style="list-style-type: none"> To find out status of pod borer complex and their natural enemies on bean and To identify the natural enemies of pod borer complex 	Rangpur
Agronomy			
1932.	Demonstration of four crop-based cropping patterns in Kishoreganj, Nilphemary district i) Early Potato - Potato - Mung bean - T. Aman Rice ii) Early Potato - Onion - Mung bean - T. Aman Rice iii) Early Potato - Potato / Maize - T. Aman Rice iv) Early Potato – Maize / Yard long bean - T. Aman Rice	<ul style="list-style-type: none"> To increase cropping intensity and To increase cash income for marginal and small farmer 	Kishoreganj and Nilphemary
1933.	Improvement of cropping pattern at Badarganj Upazila in Rangpur	<ul style="list-style-type: none"> Improvement of existing cropping pattern and total productivity and Increase of income and employment of farmers 	Rangpur
1934.	Improvement of cropping pattern in charland area	<ul style="list-style-type: none"> To evaluate improve cropping patterns and To found the economic performance 	Rangpur
1935.	Performance of BARI released sesame varieties at char land areas in Rangpur	<ul style="list-style-type: none"> To study the yield performance of BARI released sesame varieties 	Rangpur
1936.	Performance of BARI released sun flower	<ul style="list-style-type: none"> To study the yield performance of BARI released sunflower varieties 	Rangpur

Sl. No.	Research Title	Major Objective (s)	Location (s)
	varieties at char land areas in Rangpur		
1937.	Performance of BARI released fox tail millet (keno) varieties at char land areas in Rangpur	<ul style="list-style-type: none"> To study the yield performance of BARI released fox tail millet varieties 	Rangpur
Plant Breeding			
1938.	Collection, evaluation and maintenance of prose millet germplasm	<ul style="list-style-type: none"> To develop quality variety and enrich genetic resources 	Rangpur
1939.	In-situ evaluation Pammelo germplasm	<ul style="list-style-type: none"> To develop suitable pammelo variety 	Rangpur
Horticulture			
1940.	In-situ evaluation of bael germplasm (large size)	<ul style="list-style-type: none"> To find out a suitable large size bael germplasm for releasing as variety 	Rangpur
1941.	In-situ evaluation of litchi (late bearer) germplasm	<ul style="list-style-type: none"> To find out a suitable late season litchi germplasm for releasing as variety 	Rangpur
1942.	Collection and evaluation of Teasel gourd germplasm	<ul style="list-style-type: none"> To find out the suitable teasel gourd germplasm for releasing as variety 	Rangpur
REGIONAL AGRICULTURAL RESEARCH STATION, ISHURDI, PABNA			
1943.	Clonal selection of litchi cv. Bombai	<ul style="list-style-type: none"> To find out the original bombai litchi to release a superior variety 	Pabna
1944.	Development of integrated management practices for litchi production	<ul style="list-style-type: none"> To observe the response of management practices on growth, yield and quality of litchi 	Pabna
1945.	Integrated nutrient management for quality litchi production in High Ganges Floodplain soil	<ul style="list-style-type: none"> To develop a balanced fertilizer recommendation for maximizing the yield of litchi and To protect fruit dropping and cracking 	Pabna
1946.	Collection and evaluation of stem amaranth germplasm	<ul style="list-style-type: none"> To evaluate the performance of stem amaranth germplasm in respect of yield and quality 	Pabna
1947.	Collection and evaluation of green mango (kanchamitha) germplasm	<ul style="list-style-type: none"> To find out the superior genotypes of green mango germplasm for better yield and To conserve genetic resources of mango 	Pabna
1948.	Performance of BARI Lotkan-1 at Ishurdi conditions	<ul style="list-style-type: none"> To observe the performance of BARI Lotkan-1 and To verify the adaptability of BARI Lotkan-1 	Pabna
1949.	Effect of drip Irrigation on Dragon Fruit tree	<ul style="list-style-type: none"> To design and development of drip irrigation scheduling for dragon fruit. 	Pabna

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1950.	Collection and evaluation of bottle gourd germplasm	<ul style="list-style-type: none"> To evaluate the performance of bottle gourd germplasm in respect of yield and quality 	Pabna
1951.	Collection and evaluation of <i>lalim</i> germplasm	<ul style="list-style-type: none"> To select superior lines of <i>allium and</i> To conserve genetic resources of cucurbitaceous vegetables of <i>char</i> land areas 	Pabna
1952.	Collection and evaluation of hyacinth bean germplasm	<ul style="list-style-type: none"> To evaluate the performance of hyacinth bean germplasm in respect of yield and quality 	Pabna
1953.	Collection and evaluation of bullock's heart germplasm	<ul style="list-style-type: none"> To find out superior germplasm of bullock's heart and To conserve genetic resources of fruits 	Pabna
1954.	Effect of fertilizer management for sustaining soil fertility and yield performance of Lentil-Maize-T. aman rice cropping pattern	<ul style="list-style-type: none"> To find out the suitable fertilizer dose for lentil-maize-T. aman rice cropping pattern and To monitoring soil health as affected by fertilizer 	Pabna
1955.	Effect of row spacing on different lentil varieties under strip tillage system.	<ul style="list-style-type: none"> To find out performance of lentil on variable row spacing. 	Pabna
1956.	Effect of fruit bagging on the fruit quality of litchi	<ul style="list-style-type: none"> To control fruit borer of litchi and To protect litchi from sun, burn disorder. 	Pabna
1957.	Advanced yield trial of eggplant lines	<ul style="list-style-type: none"> To develop high yielding OP eggplant varieties tolerant to FSB and bacterial wilt 	Pabna
1958.	Effect of spacing and vine planting time on growth and yield of hybrid pointed gourd	<ul style="list-style-type: none"> To find out the proper spacing for growth and yield of hybrid pointed gourd and To find out the optimum vine planting time for proper growth and yield of hybrid of pointed gourd 	Pabna
1959.	Regional yield trial of pointed gourd hybrids	<ul style="list-style-type: none"> To evaluate the hybrids of pointed gourd and To select the best one (s) hybrid of pointed gourd 	Pabna
1960.	Effect of herbicides on weed density and yield of lentil (<i>Lens culinaris</i> L.)	<ul style="list-style-type: none"> To find out the suitable herbicide to control weed in lentil 	Pabna

Sl. No.	Research Title	Major Objective (s)	Location (s)
1961.	Long term effect of maize based cropping pattern on crop productivity and soil health	<ul style="list-style-type: none"> To find out the crop productivity and nutrient uptake of maize and To know the soil nutrient balance 	Pabna
1962.	Integrated management of <i>Orobanche</i> of mustard	<ul style="list-style-type: none"> To find out the effective management practices against <i>Orobanche</i> of mustard 	Pabna
1963.	Development of management approach for the control of root-knot disease of Indian spinach	<ul style="list-style-type: none"> To find out the effective management practices in controlling root-knot disease of Indian spinach 	Pabna
1964.	Development of integrated management approach for leaf curl virus disease of chili	<ul style="list-style-type: none"> To find out the effective management practices in controlling leaf curl virus disease of chili 	Pabna
1965.	Fungicidal management of white mold/ <i>Sclerotinia</i> rot disease in country bean	<ul style="list-style-type: none"> To know the effect of fungicides in controlling white mold/ <i>sclerotinia</i> stem rot disease of country bean and To determine the effect of fungicides on mycelia growth of <i>Sclerotiniasclerotiorum</i> in laboratory. 	Pabna
1966.	Fungicidal management of <i>Alternaria</i> leaf spot and flower blight of marigold	<ul style="list-style-type: none"> To know the effect of fungicides in controlling <i>Alternaria</i> leaf spot and flower blight of marigold 	Pabna
1967.	Bio-rational based integrated pest management packages for the control of legume pod borer, <i>Maruca vitrata</i> F. in country bean	<ul style="list-style-type: none"> To avoid the indiscriminate use of insecticides for controlling legume pod borer and To determine the best bio-rational based integrated pest management package(s) for the control of legume pod borer in country bean 	Pabna
1968.	Bio-rational based management practices for the control of litchi fruit borer, <i>Conopomorpha sinensis</i> Bradley	<ul style="list-style-type: none"> To develop a management practices for the control of litchi fruit borer and To avoid the indiscriminate use of insecticides for controlling litchi fruit borer 	Pabna
1969.	Performance of pulses crop under variable tillage	<ul style="list-style-type: none"> To compare crop performance under different tillage system and To relate soil moisture content behavior with different tillage system. 	Pabna

Sl. No.	Research Title	Major Objective (s)	Location (s)
REGIONAL AGRICULTURAL RESEARCH STATION, CUMILLA			
Crop Improvement (Vegetables)			
1970.	Collection and Evaluation of Cucumber Germplasm	<ul style="list-style-type: none"> To evaluate germplasm as well as to strengthen cucumber breeding program. 	Cumilla
1971.	Collection and evaluation of okra germplasm	<ul style="list-style-type: none"> To evaluate the available okra germplasm regarding high yield and tolerance to YVMV in order to select as promising lines 	Cumilla
1972.	Collection and evaluation of sweet gourd germplasm	<ul style="list-style-type: none"> To evaluate the germplasm for further selection as well as to strengthen pumpkin breeding program 	Cumilla
1973.	Collection and evaluation of local germplasm of ridge gourd	<ul style="list-style-type: none"> To screen of ridge gourd germplasm available in Cumilla region having high yield potentiality as well as resistance to insect pest and disease 	Cumilla
1974.	Collection and evaluation of muskmelon germplasm	<ul style="list-style-type: none"> To gather information on different qualitative and quantitative characters in five (5) different lines of muskmelon 	Cumilla
1975.	Collection and evaluation of local germplasm of bitter gourd in Cumilla region	<ul style="list-style-type: none"> To screen the bitter gourd germplasm available in Cumilla region having high yield potentiality as well as resistance to insect pest and disease 	Cumilla
1976.	Development of Inbred in Sweet Gourd	<ul style="list-style-type: none"> To develop inbred population in sweet gourd 	Cumilla
1977.	Performance of different colored vegetables in winter and summer	<ul style="list-style-type: none"> to evaluate the performance of colored vegetables and to popularize the colored vegetables among the consumers. 	Cumilla
1978.	Feasibility of inter-cropping leafy vegetables under eggplant cultivation	<ul style="list-style-type: none"> To find out the suitable crop combination for increasing total productivity, return and maximize land utilization. 	Cumilla
1979.	Performance study of selected vegetable crops for roof top gardening in Cumilla region	<ul style="list-style-type: none"> To identify the potentiality of vegetable crops as rooftop gardening with ensure of quality. 	Cumilla
Crop Production (Fruit)			
1980.	Hybridization in mango	<ul style="list-style-type: none"> To get bigger size and late season sweet mango variety. 	Cumilla
1981.	Hybridization in litchi	<ul style="list-style-type: none"> To get earliness, lateness, color, regular heavy bearing in the desired variety or cultivar. 	Cumilla
1982.	Collection and evaluation of lemon germplasm	<ul style="list-style-type: none"> To evaluate the performance of collected lemon germplasms in respect of yield and quality. 	Cumilla

Sl. No.	Research Title	Major Objective (s)	Location (s)
1983.	Collection and evaluation of lime germplasm	<ul style="list-style-type: none"> To evaluate the performance of collected lime germplasm in respect of yield and quality. 	Cumilla
1984.	Collection and evaluation of pummelo germplasm	<ul style="list-style-type: none"> To evaluate the performance of collected pummelo germplasms in respect of yield and quality. 	Cumilla
1985.	Collection and evaluation of year-round pummelo germplasm for Cumilla region	<ul style="list-style-type: none"> To select the promising year-round pummelo germplasm 	Cumilla
1986.	Evaluation of mango germplasm at Cumilla region	<ul style="list-style-type: none"> To evaluate the performance in respect of yield and quality of the collected germplasm. 	Cumilla
1987.	Collection and evaluation of plantain germplasm	<ul style="list-style-type: none"> To evaluate the performance of collected germplasm aimed to get a good variety 	Cumilla
1988.	Collection and evaluation of year-round (off-season) jack fruit germplasm	<ul style="list-style-type: none"> To find out a suitable year-round jackfruit germplasm in Cumilla region 	Cumilla
1989.	Collection and evaluation of mandarin germplasm	<ul style="list-style-type: none"> To collect and evaluate the superior mandarin germplasm for developing variety 	Cumilla
1990.	Collection and evaluation of sweet orange germplasm	<ul style="list-style-type: none"> To collect and evaluate the superior sweet orange germplasm for developing variety. 	Cumilla
1991.	Collection and evaluation of bullock's heart germplasm	<ul style="list-style-type: none"> To identify the plants and collect the fruits of bullock's heart germplasm To evaluate and thus find out the superior genotypes for further investigation. 	Cumilla
Crop Production (Fruit)			
1992.	Effect of rootstock and spacing on sweet orange	<ul style="list-style-type: none"> To observe the performance of root stock on the growth and yield of sweet orange (BARI Malta-1) 	Cumilla
1993.	Yield and profitability of sweet orange as influenced by organo-mineral fertilization	<ul style="list-style-type: none"> To identify a suitable combination of chemical and organic fertilizers for BARI Malta-1 and and To determine the optimum rate of organo-mineral fertilizer in citrus production and sustain soil health 	Cumilla
1994.	Performance study of selected fruits plants for roof-top gardening in Cumilla region	<ul style="list-style-type: none"> To identify the potentiality of fruits plants as rooftop gardening with ensure of quality 	Cumilla

Sl. No.	Research Title	Major Objective (s)	Location (s)
Crop Production (Spices)			
1995.	Collection and evaluation of local germplasm of chilli in Cumilla region	<ul style="list-style-type: none"> To find out superior chilli lines regarding yield and quality and to conserve the genetic resources 	Cumilla
1996.	Yield performance of turmeric in mango orchard	<ul style="list-style-type: none"> To find out the yield and economic performance of BARI released turmeric varieties under mango orchard as intercrop, and to monitor the incidence of disease of turmeric under plantation environment 	Cumilla
1997.	Performance study of selected spices Crops for roof top gardening in Cumilla region	<ul style="list-style-type: none"> To identify the potentiality of spices crops as rooftop gardening with ensure of quality. 	Cumilla
Crop Production (Tubers and Root Crops)			
1998.	Collection and evaluation of mukhikachu germplasm in Cumilla region	<ul style="list-style-type: none"> To observe the performance of mukhikachu lines and to identify the promising lines for releasing new variety. 	Cumilla
1999.	Collection and evaluation of panikachu germplasm in Cumilla region	<ul style="list-style-type: none"> To develop more rhizome and stolon yielding taro varieties. 	Cumilla
2000.	Evaluation of Cassava Germplasm	<ul style="list-style-type: none"> To make availability of different cassava germplasm used for future breeding purpose 	Cumilla
Agronomy			
2001.	Screening of different chilli germplasm in waterlogging condition.	<ul style="list-style-type: none"> To find out suitable water logging tolerant chilli germplasm for cultivation in flooding area. 	Cumilla
2002.	Evaluation of cucumber germplasm in waterlogging stress	<ul style="list-style-type: none"> To find suitable water logging tolerant cucumber genotype for cultivation in water logging area 	Cumilla
Crop Production (Oil Seed Crops)			
2003.	Effect of foliar application of different concentrations of salicyclic acids on seed yield quality of mustard at late sowing condition.	<ul style="list-style-type: none"> To know the effect of salicyclic acids on seed yield and quality of mustard at late sowing condition. 	Cumilla
2004.	Effect of growth regulators on seed yield and quality of mustard	<ul style="list-style-type: none"> To investigate the effect of some growth regulators (GA3 and IAA) on seed yield and quality of mustard 	Cumilla

Sl. No.	Research Title	Major Objective (s)	Location (s)
Soil Science			
2005.	Effect of Nitrogen Sources on Nitrogen Use Efficiency and Yield of Tomato in Cumilla Region	<ul style="list-style-type: none"> To know the yield responses and NUE of popular tomato variety under INM based nutrient management system and to develop efficiency-based fertilizer recommendations for tomato grown in Cumilla region 	Cumilla
2006.	Nitrogen Balance and Nitrogen Use Efficiency in Potato-Maize-Fallow Based Cropping Pattern Grown with Organic-Inorganic Nitrogen Sources	<ul style="list-style-type: none"> To determine the NUE for the crop(s) grown in Potato-Maize-Fallow cropping pattern in Cumilla region; and to quantify total N uptake and balance for the crops grown in Potato-Maize-Fallow cropping pattern. 	Cumilla
HILL AGRICULTURAL RESEARCH STATIONS			
2007.	Collection, conservation and evaluation of cashew nut germplasm in the hilly region of Bangladesh	<ul style="list-style-type: none"> Collection of Cashew Nut germplasm from different locations of CHT Conservation of collected germplasms through ex-situ methods of conservation and Evaluation of germplasm for varietal development activities 	Khagrachhari
2008.	Integrated nutrient management package for quality cashew nut production	<ul style="list-style-type: none"> To established and efficient nutrient management package for Cashew Nut production and To find out suitable dose of organic and chemical fertilizer. 	Khagrachhari
2009.	Effect of pruning on growth, yield and quality of coffee	<ul style="list-style-type: none"> To find out the suitable pruning method for maintaining tree size and To observe the impact of pruning on yield and quality of coffee 	Khagrachhari
2010.	Evaluation of a BARI solar cabinet dryer for drying vegetables in hilly area	<ul style="list-style-type: none"> To evaluate the performance of BARI solar cabinet dryer for drying vegetables and To compare the economic benefit between BARI solar cabinet dryer and conventional method for drying vegetables. 	Khagrachhari
2011.	Effect of irrigation on bulb yield and water use of summer onion in hilly area	<ul style="list-style-type: none"> To find out response of summer onion to different levels of irrigation to evaluate economic feasibility of summer onion production 	Khagrachhari
2012.	Standardization of propagation methods of black pepper	<ul style="list-style-type: none"> To identify the method which increase the propagation rate To select the appropriate methods of propagation 	Khagrachhari

Sl. No.	Research Title	Major Objective (s)	Location (s)
2013.	Effect of different standard on growth and yield of black pepper (<i>P. nigrum</i>)	<ul style="list-style-type: none"> To identify the method which increase the growth and yield 	Khagrachhari
2014.	Effect of irrigation on bulb yield and water use of summer onion in hilly area	<ul style="list-style-type: none"> To find out response of summer onion to different levels of irrigation to evaluate economic feasibility of summer onion production 	Khagrachhari
2015.	Performance of BARI Sheem-7 in the different hill elevation	<ul style="list-style-type: none"> To study the performance of BARI Sheem-7 in Hill ecosystem 	Ramgarh
2016.	Performance of BARI released summer bittergourd in different hill elevation	<ul style="list-style-type: none"> To study the performance of BARI released summer bitter gourd in Hill ecosystem 	Ramgarh
2017.	Study on the performance of six different dragon fruit lines in hilly region	<ul style="list-style-type: none"> To investigate the performance of six different dragon fruit lines 	Ramgarh
2018.	Effect of liming doses on the yield performance of malta in hilly region	<ul style="list-style-type: none"> To find out the suitable doses of lime for higher yield of malta 	Ramgarh
2019.	Studies on performance of grafting in BARI Payera-4	<ul style="list-style-type: none"> To find a suitable vegetative propagation technique for BARI Payera-4 	Ramgarh
2020.	Effect of n, p, k and s fertilizer doses on BARI Payera-4	<ul style="list-style-type: none"> To recommend an exact fertilizer dose for BARI Payera-4. 	Raikhali Rangamati (ARS)
2021.	Evaluation of dragon fruit germplasm in Rangamati hilly area	<ul style="list-style-type: none"> To find out the suitable germplasm for higher yield and quality 	Raikhali Rangamati
2022.	Adaptive trial of dragon fruit cultivation in the Rangamati hilly area	<ul style="list-style-type: none"> To popularize the dragon fruit in the Rangamati hill district and To improve the livelihood of the hill people of Rangamati 	Raikhali Rangamati
2023.	Adaptive trial on the hot water technology for reducing post harvest loss of mango in the hilly areas	<ul style="list-style-type: none"> To popularize the Mango fruit in the hill district and To improve the livelihood of the hill people 	Raikhali Rangamati
2024.	Adaptive trial of fruit bagging technology for safe mango production in the hilly areas of Bangladesh	<ul style="list-style-type: none"> To popularize the fruit bagging technology in the hill district To produce safe mango in the hills To reduce pesticide application for mango 	Raikhali Rangamati

Sl. No.	Research Title	Major Objective (s)	Location (s)
2025.	On-farm trial of BARI developed chilli varieties	<ul style="list-style-type: none"> To evaluate the performances of BARI released chilli varieties for higher yield and economic return 	Raikhali, Rangamati
2026.	On-farm trial of newly released BARI sweet potato varieties on sangu river bank areas	<ul style="list-style-type: none"> To find out the suitable sweet potato variety and To popularize the variety (s) among the farmers 	Raikhali, Rangamati
2027.	On-farm trial of BARI developed groundnut varieties on sangu river bank areas	<ul style="list-style-type: none"> Screening of BARI released groundnut varieties and To increase production and replace the local variety 	Raikhali, Rangamati
2028.	Production program of cereals, pulses, oilseeds and vegetables in Bandarban region	<ul style="list-style-type: none"> To validate and popularize the BARI developed crop varieties in Bandarbanregion 	Raikhali, Rangamati

BANGLADESH RICE RESEARCH INSTITUTE

BANGLADESH RICE RESEARCH INSTITUTE
PLANT BREEDING DIVISION

SI No.	Research Title	Objective (s)	Location (s)
1.	Development of Upland Rice (Broadcast Aus)	<ul style="list-style-type: none"> Development of varieties in combination of multiple traits such as quick seedling emergence and vigorous growth, short growth duration (90-95 days), tolerance to lodging, drought and pre-harvest sprouting as well as good eating quality 	Gazipur
2	Development of Transplanted Aus (T. Aus) Rice	<ul style="list-style-type: none"> Introgression of earliness, pre-harvest sprouting tolerance and tolerance to high temperature into high yielding varieties for developing rice varieties with slender grain, short growth duration and resistance to major diseases 	Gazipur
3	Improvement of rice for shallow flooded & Deep-Water environment	<ul style="list-style-type: none"> Generation of genotypes in combination with moderate elongation, high yield and submergence tolerance for shallow flooded sub-ecosystem (flood water depth 0.5-1.0 m) 	Gazipur
4	Development of Rainfed Lowland Rice (RLR) (T. Aman)	<ul style="list-style-type: none"> Introgression of genes from diverged genetic background for the improvement of standard T. Aman varieties 	Gazipur Rajshahi and Rangpur
5	Development of Salt Tolerant Rice for T. Aman and Boro Season	<ul style="list-style-type: none"> Introgression of salinity tolerant traits/ gene (s) in high yielding varieties suitable for RLR and irrigated Boro ecosystem 	Gazipur and Satkhira
6	Development of Premium Quality Rice (PQR) for T. Aman and Boro Season	<ul style="list-style-type: none"> Introgression of genes for small & long slender grain with aroma, photosensitivity and Anti-oxidant property into high yielding genetic background for the development of national and international grade aromatic rice 	Gazipur
7	Development for Micronutrient Enriched Rice (ZER) for T. Aman & Boro	<ul style="list-style-type: none"> Development of new genotypes with high iron and zinc content along with resistance to major insect pests and diseases, and acceptable grain quality 	Gazipur
8	Development of Insect Resistant Rice (IRR) for T. Aman & Boro Season	<ul style="list-style-type: none"> Introgression of genes of BPH and gall midge into high yielding rice genetic background 	Gazipur
9	Development of Disease Resistant Rice (BB, Blast & RTV) for T. Aman and Boro season	<ul style="list-style-type: none"> Introgression of high yield, lodging tolerance and disease resistance trait for BB, Blast and RTV 	Gazipur
10	Development of Submergence and Water Stagnation Tolerance Rice	<ul style="list-style-type: none"> Introgression of submergence and medium stagnant water tolerant genes into modern genetic background with high yield potential, short/long growth duration, weakly/strongly photoperiod sensitivity and grain quality etc. 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
11	Development of Drought Tolerant Rice for T. Aman Season	<ul style="list-style-type: none"> • Introgression of drought tolerance traits gene into high yielding rice genetic background. 	Gazipur
12	Development of Green Super Rice Project (GSR) for T. Aman and Boro Season	<ul style="list-style-type: none"> • Development of varieties with less input potential and better yield performance. 	Gazipur
13	Development for Golden rice for T. Aman & Boro	<ul style="list-style-type: none"> • Development of new genotypes with high Beta Carotene (Vitamin-A) content and acceptable grain quality. 	Gazipur
14	Development of favorable Boro Rice	<ul style="list-style-type: none"> • Development of new genotypes based on the farmers and consumers preference with better plant type and major insect and disease resistance. 	Gazipur
15	Development of Cold Tolerance Boro Rice	<ul style="list-style-type: none"> • Introgression of cold tolerance gene into high yielding rice genetic background. 	Gazipur
16	Development of Water Saving Rice	<ul style="list-style-type: none"> • Development of new rice genotypes based on water use efficiency with better plant type and major insect and disease resistance. 	Gazipur
17	Development of hill Rice	<ul style="list-style-type: none"> • Introgression of genes responsible for waxy and sticky cooking quality into high yielding rice genetic background. 	Gazipur
18	Development of Heat Tolerant Rice	<ul style="list-style-type: none"> • Introgression genes for high temperature tolerance into high yielding varieties for developing rice varieties with short growth duration. 	Gazipur
19	International Network for Genetic Evaluation of Rice (INGER)	<ul style="list-style-type: none"> • Promising genotypes selection after evaluation to be used as parent materials and to be included in yield trials. 	Gazipur
BIOTECHNOLOGY DIVISION			
20	Development of low glycemic index (GI) rice variety through anther culture	<ul style="list-style-type: none"> • To develop low glycemic index rice variety 	Gazipur
21	Development of salt tolerant rice variety through anther culture	<ul style="list-style-type: none"> • To develop salt tolerant rice variety 	Gazipur
22	Development of premium quality Kalijira type rice through anther culture	<ul style="list-style-type: none"> • To develop Kalijira type aromatic rice variety 	Gazipur
23	Development of Aus rice variety through anther culture	<ul style="list-style-type: none"> • To develop short duration high yield Aus rice variety 	Gazipur
24	Development of antioxidant enriched black rice variety	<ul style="list-style-type: none"> • To develop rice variety with antioxidant through anther culture 	Gazipur
25	Development of somaclone using EMS treated rice seed	<ul style="list-style-type: none"> • To develop modern rice varieties for Aus, Aman and Boro 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
26	Development of Aus rice variety through soma clonal variation	<ul style="list-style-type: none"> To develop high yielding Aus rice variety 	Gazipur
27	Development of antioxidant enriched rice variety through soma clonal variation	<ul style="list-style-type: none"> To develop high yielding antioxidant enriched rice variety 	Gazipur
28	Improvement of BRRI dhan47 through soma clonal variation	<ul style="list-style-type: none"> To develop somaclone of BRRI dhan47 with reduced shattering. 	Gazipur
29	Progeny selection	<ul style="list-style-type: none"> To select the best progeny with high yield and desirable traits 	Gazipur
30	Observational trials	<ul style="list-style-type: none"> To select agronomically desirable and high yield potential breeding lines 	Gazipur
31	Primary yield trials	<ul style="list-style-type: none"> To evaluate initial yield potential of advanced breeding lines 	Gazipur
32	Secondary yield trials	<ul style="list-style-type: none"> To evaluate further yield potential of advanced breeding lines 	Gazipur
33	Regional yield trials	<ul style="list-style-type: none"> To evaluate yield potential of advanced breeding lines at the regional level 	Regional Station
34	Proposed Variety Trials	<ul style="list-style-type: none"> On farm evaluation of proposed lines by the NSB team for releasing as a new rice variety 	Selected Districts of Bangladesh
35	Development of rice variety through wide hybridization followed by embryo rescue	<ul style="list-style-type: none"> To develop different stress tolerant rice variety through wide hybridization 	Gazipur
36	Development of rice variety through wide hybridization followed by anther culture	<ul style="list-style-type: none"> To develop modern rice variety for Aus, Aman and Boro 	Gazipur
37	Development of salt tolerant transgenic rice	<ul style="list-style-type: none"> To develop salt tolerant transgenic rice lines 	Gazipur
38	Introgression of salt tolerant mangrove gene	<ul style="list-style-type: none"> To develop salt tolerant transgenic rice lines 	Gazipur
39	Identification of QTLs for salinity tolerance both at seedling and reproductive stage	<ul style="list-style-type: none"> To identify QTLs for salt tolerance both at seedling and reproductive stage 	Gazipur
40	Identification of QTLs for taller seedling height	<ul style="list-style-type: none"> To identify QTLs for taller seedling height for developing tidal submergence tolerant rice variety 	Gazipur
41	Gene pyramiding for resistance to bacterial blight (BB)	<ul style="list-style-type: none"> To develop breeding lines possessing multiple BB resistance genes through Marker Assisted Selection 	Gazipur
42	Validation of a simple functional marker for fragrance in non-Basmati fragrant rice varieties	<ul style="list-style-type: none"> To distinguish the alleles of major fragrance gene in local aromatic rice and To examine the potential of this functional marker among Basmati, non-Basmati 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
		aromatic and non-aromatic rice varieties	
43	Gene cloning	<ul style="list-style-type: none"> To isolate and cloning of salt and drought tolerant gene(s) followed by construct preparation 	Gazipur
HYBRID RICE DIVISION			
Development of parental materials for high yield, high amylose content and fine grain containing hybrid rice variety			
44	Source Nursery	<ul style="list-style-type: none"> Identification of prospective maintainers and restorers from diverse genetic origin 	Gazipur
45	Test cross Nursery	<ul style="list-style-type: none"> Confirmation of maintainers and restorers from the crossed entries, Selection of heterotic rice hybrids, Conversion of prospective materials into new CMS lines. 	Gazipur
46	Backcross Nursery	<ul style="list-style-type: none"> Developing CMS lines from identified maintainer by back crossing. 	Gazipur
47	CMS Maintenance and Evaluation Nursery	<ul style="list-style-type: none"> Maintain and evaluate of CMS lines 	Gazipur
48	Improvement of parental lines by (B x B) crosses.	<ul style="list-style-type: none"> To broaden the genetic base of maintainer lines and selection of the recombinant lines 	Gazipur
49	Improvement of parental lines by (R x R) crosses.	<ul style="list-style-type: none"> To broaden the genetic base of restorer lines and selection of the recombinant lines 	Gazipur
50	Evaluation of Fatema dhan and its generation advancement	<ul style="list-style-type: none"> To select fix lines from Fatema dhan 	Gazipur
Breeding for BB resistant hybrid rice variety			
51	Development of disease resistant parental lines (BB)	<ul style="list-style-type: none"> To develop new CMS and restorer lines resistance to disease (BB) and To find out heterotic rice hybrid combinations having resistance to disease (BB) 	Gazipur
52	Screening of existing maintainers and restorers against BB resistance.	<ul style="list-style-type: none"> To identification of BB resistance maintainers and/or restorers from existing materials 	Gazipur
53	Source Nursery	<ul style="list-style-type: none"> Identification of prospective maintainers and restorers of diversified origin for making experimental rice hybrids 	Gazipur
54	Test cross Nursery	<ul style="list-style-type: none"> Confirmation of maintainers and restorers from the crossed entries. Selection of heterotic rice hybrids. Conversion of prospective maintainers into new CMS lines 	Gazipur
55	Backcross Nursery	<ul style="list-style-type: none"> Developing BB resistant CMS lines from identified maintainer by back crossing. 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
Evaluation of parental materials and hybrids			
56	Observational Trial (OT) of experimental hybrids	• Selection of promising hybrids	Gazipur
57	Preliminary Yield trials of promising hybrids	• To study the wider adaptability and yield potentiality of promising hybrids	Gazipur
58	Multi-location trials of promising hybrids	• To find out promising hybrids with high yield potential and higher adaptability	Selected R/S
59	Combining ability of A, B and R lines	• To select the best combiner (S) in respect of grain yield and yield components	Gazipur
60	National Hybrid Rice Yield Trial (NHRYT)	• Evaluation of imported hybrids for subsequent selection	Gazipur and R/S
61	Quality ensure of previous season produced F ₁ and CMS lines through grow out test	• To determine purity of parental lines and hybrids of BRRI released hybrid rice	Gazipur
62	Evaluation of exotic hybrids and parental and source materials (A, B, R and F ₁)	• To evaluate adaptability and yield performance of exotic materials	Gazipur
63	Demonstration trials of BRRI released hybrids along with promising hybrids and checks	• To evaluate the performances of released hybrids with promising ones	Gazipur and R/S
Seed Production of Parental lines and Hybrids			
64	CMS multiplication of promising A line	• To produce pure and good quality seed of CMS lines for subsequent use.	Gazipur and R/S
65	CMS multiplication of BRRI hybrid dhan1 and BRRI hybrid dhan4	• Production of pure and good quality seed of CMS lines.	Gazipur and R/S
66	CMS line multiplication of BRRI hybrid dhan2	• Production of sufficient quantity quality seeds of CMS lines for subsequent use	Gazipur and R/S
67	CMS line multiplication of BRRI hybrid dhan3	• Production of sufficient quantity quality seeds of CMS lines for subsequent use	Gazipur and R/S
68	CMS line multiplication of BRRI hybrid dhan5	• Production of sufficient quantity quality seeds of CMS lines for subsequent use	Gazipur and R/S
69	CMS line multiplication of BRRI hybrid dhan6	• Production of sufficient quantity quality seeds of CMS lines for subsequent use	Gazipur and R/S
70	CMS line multiplication of BRRI hybrid dhan7	• Production of sufficient quantity quality seeds of CMS lines for subsequent use	Gazipur and R/S
71	F ₁ seed production of BRRI hybrid dhan2 and BRRI hybrid dhan4	• Production of sufficient quantity quality hybrid seed for subsequent use	Gazipur and R/S
72	F ₁ seed production of BRRI hybrid dhan3	• Production of sufficient quantity quality hybrid seed for subsequent use	Gazipur and R/S
73	F ₁ seed production of BRRI hybrid dhan5 & BRRI hybrid dhan7	• Production of sufficient quantity quality hybrid seed for subsequent use	Gazipur and R/S
74	F ₁ seed production of BRRI hybrid dhan6	• Production of sufficient quantity quality hybrid seed of promising hybrids for subsequent use	Gazipur and R/S

SI No.	Research Title	Objective (s)	Location (s)
75	F ₁ seed production of promising hybrids	<ul style="list-style-type: none"> To produce sufficient quantity of seed for OST and OFT 	Gazipur
76	Growth duration differentiation method (GDDM) for synchronization in flowering	<ul style="list-style-type: none"> To determine proper heading time of parental lines (A &R) of promising hybrids 	Gazipur
77	Nucleus seed production of BRRI hybrid dhan1 & BRRI hybrid dhan4	<ul style="list-style-type: none"> To produce parental lines nucleus seeds of BHD1 & BHD4 	Gazipur and R/S
78	Nucleus seed production of BRRI hybrid dhan2	<ul style="list-style-type: none"> To produce parental lines nucleus seeds of BHD2 	Gazipur and R/S
79	Nucleus seed production of BRRI hybrid dhan3	<ul style="list-style-type: none"> To produce parental lines nucleus seeds of BHD3 	Gazipur and R/S
80	Nucleus seed production of BRRI hybrid dhan5	<ul style="list-style-type: none"> To produce parental lines nucleus seeds of BHD5 	Gazipur and R/S
81	Nucleus seed production of BRRI hybrid dhan6	<ul style="list-style-type: none"> To produce parental lines nucleus seeds of BHD6 	Gazipur and R/S
82	Maintainer and restorer lines multiplication of promising and released hybrids	<ul style="list-style-type: none"> Production of sufficient quantity quality parental lines for subsequent use 	Gazipur and R/S
GENETIC RESOURCES AND SEED DIVISION (GRSD)			
83	Rice germplasm conservation and management	<ul style="list-style-type: none"> Collection, characterization, documentation, conservation and rejuvenation of rice germplasm to enrich the Genebank of BRRI and its sharing with rice researchers 	Selected districts of Bangladesh
84	Seed production and variety maintenance	<ul style="list-style-type: none"> Maintenance of nucleus seed stock and production for supplying breeder seeds as per National demand and MOU/LOA with seed growers. 	Gazipur and R/S
85	Exploratory and genetic studies	<ul style="list-style-type: none"> Conduct problem related genetic studies for breeder seed and rice germplasm. 	Selected districts of Bangladesh
86	Seed technology packages	<ul style="list-style-type: none"> Exploratory and genetic studies of seed technology for recommending as rice seed production technology. 	Selected districts of Bangladesh
87	Out research activities	<ul style="list-style-type: none"> Visit to breeder and foundation seed production farms to ensure the quality of produced seed. 	Gazipur and R/S
GRAIN QUALITY AND NUTRITION (GQN) DIVISION			
Grain Quality Characteristics for Variety Development			
88	Determination of physicochemical and cooking properties of breeding lines	<ul style="list-style-type: none"> To help to develop data base on physicochemical, cooking and eating qualities of grain for newly developed breeding lines 	Gazipur (GQN Lab)
89	Determination of physicochemical and cooking	<ul style="list-style-type: none"> To find out the physicochemical and eating quality of promising lines for identifying 	Gazipur (GQN Lab)

SI No.	Research Title	Objective (s)	Location (s)
	properties of transforming rice breeding lines	better grain quality	
90	Evaluation of physicochemical properties of newly released BRRI varieties	<ul style="list-style-type: none"> To determine physicochemical and cooking qualities of (recently released) BRRI developed rice varieties for updating the database 	Gazipur (GQN Lab)
91	Characterization of Black rice	<ul style="list-style-type: none"> Physiological, Physicochemical and molecular characterization of black rice 	Gazipur (GQN Lab)
92	Calibration of NIR to predict proximate composition of rice varieties	<ul style="list-style-type: none"> To calibrate a near accurate prediction model for proximate composition of rice To characterizing the proximate composition (moisture, carbohydrate, protein, lipids, ash and Dietary fiber) of BRRI varieties as an index of nutritional worth 	Gazipur (GQN Lab)
93	Identification of rice genotypes having low heavy metal uptake ability at seedling stage	<ul style="list-style-type: none"> Heavy metal uptake in rice plant by different rice cultivars will be assessed Dose response uptake of heavy metals on different rice genotype will be assessed Low heavy metal uptake rice genotype will be identified 	Gazipur (GQN Lab)
• Grain Quality Parameters for Consumer Preference			
94	A survey of rice grain quality in Bangladesh: Consumer preference	<ul style="list-style-type: none"> To identify scientific reasons of preferring local varieties over HYV in terms of grain quality and nutrition 	Gazipur (GQN Lab)
95	Taste profiling of popular rice varieties in Bangladesh	<ul style="list-style-type: none"> To unrevealing the mechanism of superior sensory properties of popular rice varieties at biochemical level 	Gazipur (GQN Lab)
96	A study on the different components of rice in relation to the palatability	<ul style="list-style-type: none"> To identify the parameters of rice grain that are responsible for palatability 	Gazipur (GQN Lab,)
97	Analysis of ferulic acid (FA) in Bangladeshi rice varieties in association of biochemical evaluation on burning effects of RBO in vivo rat experiment	<ul style="list-style-type: none"> To evaluate on appropriate analysis methodology and study amount of FA and their relation to nutrition properties in rice To evaluate the burning effects of RBO 	Gazipur (GQN Lab)
98	To Screening, Selection, and Training of Sensory Panelists	<ul style="list-style-type: none"> To determine impairment of primary senses (color, vision, ageusia and anosmia) To matching test for taste and odor substances To ability to detect basic taste and odor acuity To determine ability to characterized texture To performance in comparison with other candidates To increase sensory acuity of panelists and provide them with rudimentary knowledge of procedures used in sensory evaluation 	Gazipur (GQN Lab)

SI No.	Research Title	Objective (s)	Location (s)
Nutritional Quality Assessment of Rice			
99	Fatty acid profiles and nutritional quality of rice bran oil (RBO) in all BRRI high yielding varieties	<ul style="list-style-type: none"> To identify the varieties containing higher amount of oil content AND To analyze the fatty acid profile and nutritive value of rice bran oil 	Gazipur (GQN Lab) and Oil seed Lab, BARI
100	Study on the effect of protein content on the basis of regional variation in Boro season	<ul style="list-style-type: none"> To determine the protein content for regional variation of BRRI released Boro variety 	Gazipur (GQN Lab)
101	Study on antioxidative and anticancer properties of pigmented (black, red, purple) rice varieties in Bangladesh	<ul style="list-style-type: none"> Extraction and identification of anthocyanin from different Bangladeshi pigmented rice varieties Anti-carcinogenic effects by observing the anti-proliferative activity in cancer cells Anti-diabetic effects by measuring serum glucose and insulin levels in type 2 diabetic rats AND Anti-inflammatory effects by estimating serum levels of IL-4, IL-6 and TGF-beta 	Gazipur (GQN Lab)
102	Effect of Zn and phytate activities on Zn enriched rice varieties at different locations in T. Aman season	<ul style="list-style-type: none"> To determine the Zn and phytate activities with physicochemical properties of Zn enriched rice varieties at different locations in T. Aman season 	Gazipur (GQN Lab)
<ul style="list-style-type: none"> Commercial Rice Based Products 			
103	Determination of physicochemical properties and quality of puffed, popped and flattened rice from newly released BRRI varieties	<ul style="list-style-type: none"> To identify the physical quality of puffed, popped and flattened rice To determine the nutritional value of puffed, popped and flattened rice 	Gazipur (GQN Lab)
104	Survey on indigenous rice products of BRRI modern varieties.	<ul style="list-style-type: none"> To find out the popular BRRI varieties are used for producing puffed and flattened rice 	Gazipur (GQN Lab)
105	Value addition and standardization of nutritional level in selected food items to mitigate malnutrition	<ul style="list-style-type: none"> Survey on dietary pattern of street children in capital city, Dhaka. Formulation of low-cost rice-based nutraceutical food items Impact evaluation studies of formulated rice-based foods 	Gazipur (GQN Lab)
106	Physicochemical, cooking and sensory properties related to quality of rice noodles	<ul style="list-style-type: none"> Laboratory-scale method for making flat rice noodles will be standardized. Genotype variation in physic-chemical, cooking and sensory properties of rice flour in relation to noodle quality will be standardized. and Specific characteristics responsible for producing superior quality of rice noodles will be identified 	Gazipur (GQN Lab)

SI No.	Research Title	Objective (s)	Location (s)
AGRONOMY DIVISION			
Seeds and Seedlings			
107	Effect of seedling age on tailoring dynamics of BRRI released varieties and its impact on yield during T. Aman 2019 and Boro 2019-20	<ul style="list-style-type: none"> To investigate the effect of seedling age on tailoring ability of BRRI varieties and its impact on grain yield 	Gazipur
108	Effect of seed treatment with chitosan on the growth of rice seedlings in saline medium during T. Aman 2019 and Boro 2019-20	<ul style="list-style-type: none"> To reduce reverse the adverse effects of salinity on rice seedling growth using seed treatment with Chitosan and To evaluate biochemical indicators like proline content and MDA content 	Gazipur
Planting Practices			
109	Improvement of soil health in four crops pattern through agronomic management during T. Aman	<ul style="list-style-type: none"> To validate BRRI developed 4 crops systems To increase the cropping intensity and productivity and To improve the soil health 	Gazipur
110	Effect of planting date on growth and yield of advanced lines during Aus, T. Aman and Boro	<ul style="list-style-type: none"> To determine suitable time of planting and selection of high yield potential genotypes 	Gazipur
111	Effect of planting date on growth and yield of BRRI released varieties in Boro seasons in haor area of Habiganj	<ul style="list-style-type: none"> To determine the cutoff date for planting in haor area and To determine suitable date of planting 	Habiganj R/S
112	Comparative performance study on the number of lines in logo method and normal transplanting of rice cultivation during T. Aman and Boro	<ul style="list-style-type: none"> To compare the yield performance of number of lines in logo method 	Gazipur
Fertilizer Management			
113	Effect of nitrogen and potassium fertilizer management on growth and yield of mechanically transplanted Boro rice	<ul style="list-style-type: none"> To determine the suitable N and K fertilizer management option for mechanically transplanted rice 	Gazipur
114	Effect of N management at the reproductive phase of rice	<ul style="list-style-type: none"> To verify whether top dressing of urea is useful or harmful after PI stage for inbred rice 	Gazipur
Weed Management			
115	Evaluation of candidate herbicides during Aman & Boro (Routine work)	<ul style="list-style-type: none"> To find out the efficacy of new herbicides 	Gazipur
116	Study on herbicide options for effective weed management in	<ul style="list-style-type: none"> To evaluate herbicide options for effective weed control in Direct seeded Aus Rice and 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
	direct seeded Aus rice	<ul style="list-style-type: none"> To determine cost effective and sustainable weed management in direct seeded Aus rice 	
117	Allelopathic effect of rice varieties on weed management	<ul style="list-style-type: none"> Effects of rice allelopathy on shoot length, root length and dry matter accumulation of <i>E. crusgalli</i> and <i>Echinochloa colona</i> and Compare three methods (Relay seeding method, root exudates techniques and double pot techniques) in determining the allelopathic potential of rice varieties 	Gazipur
118	Assessment of residual soil toxicity through bioassay	<ul style="list-style-type: none"> To assess the residual soil toxicity in herbicides applied in rice field 	Gazipur
119	Collection and isolation of potential fungi for controlling <i>E. crusgalli</i> and <i>M. vaginalis</i> two major weeds of rice	<ul style="list-style-type: none"> To isolate fungi from infected weed samples To evaluate the efficacy of fungi against the weeds and To identify genus and/or species of fungi 	Gazipur
Yield Maximization			
120	Effect of micronutrient and organic matter for growth and yield maximization of Boro rice	<ul style="list-style-type: none"> To find out the role of micronutrient for enhance grain yield and To find out the best combination of organic and inorganic fertilizer for maximize higher yield 	Gazipur
121	Yield maximization of T. Aus rice through integrated crop management	<ul style="list-style-type: none"> To maximize growth and yield of T. Aus varieties 	Gazipur
122	Maximizing rice yield of BRRI developed new varieties through influencing agronomic critical factors	<ul style="list-style-type: none"> To maximize rice yield and identify the response to the agronomic management factors 	Gazipur
IRRIGATION AND WATER MANAGEMENT DIVISION			
Water Use Efficiency Improvement in Irrigated Agriculture			
123	Determination of physical and hydraulic properties in different soil types	<ul style="list-style-type: none"> To document the important soil physical properties (bulk density, particle density, hyd. conductivity etc) in different soil profiles and To develop a soil moisture characteristics curve 	Some selected districts of Bangladesh
124	Development of Automated Alternate Wetting and Drying Irrigation System for Rice production	<ul style="list-style-type: none"> To save irrigation water To use water efficiently for improving water productivity and To introduce digital irrigation system in rice cultivation 	Gazipur
125	Development of a Technique for Using Basin Water for Elevated Land Rice Cultivation during Dry Season in Haor Area	<ul style="list-style-type: none"> To bring elevated land under boro rice To improve land productivity and To develop a technique for using basin water during dry season in haor areas 	Haor areas

SI No.	Research Title	Objective (s)	Location (s)
126	Problems and potentials for productivity improvement through water management in Hilly areas	<ul style="list-style-type: none"> To identify potentials of water resources development in the Hilly area To recommend suitable water management options for productivity and livelihood improvement. 	Rangamati and Khagrachhori
127	Study on Water-Stress Tolerance for Different Advanced Rice Genotype of BRRI	<ul style="list-style-type: none"> To quantify the tolerance capacity of soil moisture deficit for different varieties that plant suffers through Towfique's drought model and To determine yield of varieties under different water stress condition 	Gazipur
128	Optimization of Irrigation Water Use for Boro Cultivation under Different Establishment Methods	<ul style="list-style-type: none"> To compare the irrigation requirement and productivity under different methods of Boro cultivation To find out problems of Boro cultivation under non-conventional water management practices and To find out suitable method of Boro cultivation under water limiting conditions 	Gazipur
129	Performance Evaluation of the Proposed Rice Varieties Under Different Water Regimes	<ul style="list-style-type: none"> To study performance of the proposed rice varieties under different water regimes and To evaluate suitable water regimes for proposed lines/varieties 	Gazipur
130	Improving Soil-Water Availability for Crop Production in Char Land by Amendment Practices	<ul style="list-style-type: none"> To determine soil physical properties in root zone soil layers To determine water holding capacity of root zone soil layers and To measure soil-water retention curves of the soil layers and determine their parameters 	Sirajganj
131	Determining Minimum Irrigation Water Requirement of Rice at Different Regions of Bangladesh through Water Balance from On-Farm Demand and Model Simulation	<ul style="list-style-type: none"> To measure minimum water requirement for irrigation at different regions To measure yield response of rice to irrigation application base on on-farm demand and simulated irrigation requirement and To figure out variation in irrigation water requirements among different treatments 	Some selected districts of Bangladesh
Utilization of Water Resources in Rainfed Environment			
132	Agricultural drought forecasting for mitigating drought in T. Aman rice	<ul style="list-style-type: none"> To determine drought using forecasted rainfall and evaporation To determine suitability of drought model for forecasting To determine yield performance after mitigating drought 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
133	Irrigation Scheduling of Rice (<i>Oryza sativa</i> L.) Based on Weather Forecasting in Gazipur	<ul style="list-style-type: none"> To predict water demand through water balance simulation model for rice cultivation To validate water balance simulation model with CROPWAT 8.0 model and To recommend a better method for irrigation scheduling of rice 	Gazipur
Land Productivity Improvement in the Coastal Environment			
134	Assessment of water resources availability suitable for irrigation to increase crop production in tidal areas of Barisal region	<ul style="list-style-type: none"> To monitor the dynamics of surface water salinity in the dry season at Barisal region To assess the suitability of water for irrigated crop cultivation and To assess the availability of water and potentials for irrigated crop cultivation 	Barisal Division
135	Water resources assessment during dry season crop cultivation in selected polders of coastal region	<ul style="list-style-type: none"> To delineate suitable water resources during dry season To determine the amount of fresh water available for crop production during the period and To assess the cultivated area by different cropping pattern based on water resources 	Khulna region
136	Use of less saline water resources for increasing cropping intensity in Barisal region 2017-2019	<ul style="list-style-type: none"> To bring fallow land under Boro cultivation and To improve crop and land productivity in the region 	Barisal region
Sustainable Management of Water Resources			
137	Monitoring of groundwater fluctuation and safe utilization in different geo-hydrological regions	<ul style="list-style-type: none"> To determine the fluctuation of groundwater level over time and its relationships with rainfall and To determine water quality for assessing suitability for irrigation. 	Different Regional stations
138	Development of suitable method for safe ground water recharge	<ul style="list-style-type: none"> Determination of safe method for artificial groundwater recharge and Identify qualities and microbial activities of artificial recharged water 	Gazipur
139	Effect on Percolation Losses and Ground Water Recharge due to Weak Plough Pan Formed Under Long Term Conservation Agriculture	<ul style="list-style-type: none"> To determine amount of irrigation water contributed through deep percolation to ground water recharge under SP and CT. To determine depth of vertical movement of irrigation water towards ground water level and To determine the depth and vicinity of the nearest aquifer. 	Gazipur and Rajshahi
140	Assessment of Groundwater Level Depletion Dynamics in Selected Locations of Bangladesh	<ul style="list-style-type: none"> To evaluate fluctuation pattern of GWL To determine the GWL depletion trend To assess the GW recharge pattern through model study 	Some selected districts of Bangladesh

SI No.	Research Title	Objective (s)	Location (s)
141	Assessment of Surface and Groundwater Quality for Irrigation in Selected Locations of Bangladesh	<ul style="list-style-type: none"> To determine the surface and groundwater quality parameters To determine the suitability of groundwater for irrigation 	Some selected districts of Bangladesh
Renewable Energy			
142	Evaluation of smallholder surface water solar irrigation system for crop production	<ul style="list-style-type: none"> To assess the suitability of solar pump for surface water irrigation To assess the suitability of trolley or portable type PV panel structure To analyze the feasibility of the pumps for rice cultivation 	Gazipur
143	Development of a Low-Cost DC Solar Water Pump for Irrigation in Bangladesh	<ul style="list-style-type: none"> To use a permanent magnet brushless DC motor for operating solar water pump To find out optimum panel size for good matching between pump and PV module To determine economic feasibility of the pump for rice cultivation 	Gazipur
Technology Validation in the Farmers' Field			
144	Cropping system intensification in the salt-affected coastal zones of Bangladesh and West Bengal, India (LWR/2014/73)	<ul style="list-style-type: none"> Develop a regional scale understanding of the surface water and groundwater resources, recharge/discharge mechanisms and trends in the case study polders. Develop detailed understanding of crop production responses to various improved polder water management strategies and Test suitable cropping options and polder water and salt management strategies 	Barishal and Khulna
145	Groundwater Resources Management for Sustainable Crop Production in Northwest Hydrological Region of Bangladesh	<ul style="list-style-type: none"> To analyze ground water table in different districts of northwest region To determine low water required cropping pattern for groundwater scarcity zone and To determine suitable method for safe groundwater recharge and quality of groundwater in selected area 	Northwest region of Bangladesh
146	Up-scaling and Application of Solar Photovoltaic Pump for Smallholder Irrigation and Household Appliances in the Central Coastal Region of Bangladesh	<ul style="list-style-type: none"> Selection and Up-scaling of solar pump system (centrifugal or submersible) for smallholder surface irrigation Development of portable solar panel and test its efficacy for use with solar pump and household appliances for year-round uses, and Field trials of portable solar pump for irrigation in rice-based cropping pattern and year-round uses of solar energy in household appliances in the central coastal region of Bangladesh 	Barishal region

SI No.	Research Title	Objective (s)	Location (s)
PLANT PHYSIOLOGY DIVISION			
Salinity tolerance			
147	Exploring new sources of salinity tolerance from BRRI Gene Bank collections at seedling stage	<ul style="list-style-type: none"> To find out new sources of salinity tolerance from local germplasm at seedling stage 	Gazipur
148	Physiological characterization of tolerant germplasm for whole growth period salinity tolerance	<ul style="list-style-type: none"> To find out yield level at varying salinity level. To measure the level of tolerances of tested genotypes and To identify the physiological traits associated with tolerances 	Gazipur
149	Screening of advance breeding line for salinity tolerance at seedling stage during T. Aman and Boro season	<ul style="list-style-type: none"> To identify salt tolerant advance breeding lines/genotypes at seedling stage 	Gazipur
150	Characterization of advanced breeding lines at salinity stress for whole growth period during Aman and Boro season	<ul style="list-style-type: none"> To know the level of tolerance of different genotypes 	Gazipur
Submergence tolerance			
151	Identification of rice germplasm for two weeks flash flood submergence tolerance	<ul style="list-style-type: none"> To identify tolerant germplasm and breeding lines under 2 weeks complete submergence and To observe elongation capacity under complete submergence 	Gazipur
133	Identification of breeding lines for flash flood submergence tolerance	<ul style="list-style-type: none"> To identify tolerant under 16 days of complete submergence one more and To observe elongation capacity under complete 	Gazipur
152	Characterization of rice germplasm in relation to submergence tolerance using SSR markers	<ul style="list-style-type: none"> To survey microsatellite polymorphism in relation to submergence tolerance and To investigate the nature and extent of differentiation and divergence. 	Gazipur
153	Screening for stagnant flooding tolerance of advance breeding lines and germplasm at whole growth period during T. Aman season	<ul style="list-style-type: none"> To identify tolerant germplasm for water stagnation condition and To observe tillering ability under water stagnation conditions 	Gazipur
Drought tolerance			
154	Confirmation of performance for ALART/ RYT /AYT materials under drought stress at reproductive stage	<ul style="list-style-type: none"> To evaluate of ALART/ RYT /AYT materials under control drought condition in the net house 	Gazipur
155	Screening germplasm for drought tolerance at reproductive phase	<ul style="list-style-type: none"> To identify rice germplasm tolerant to drought stress at reproductive phase 	Gazipur
156	Evaluation of previously	<ul style="list-style-type: none"> To find out correlation of field performance 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
	selected germplasm under drought stress at reproductive phase in the rain-out shelter	with the performance under control drought condition in the rain-out shelter	
157	Physiological and biochemical characterization of advance breeding lines under drought stress at reproductive phase	<ul style="list-style-type: none"> To assess the effect of drought stress on growth and yield of the tested genotypes and To identify the physiological traits associated with drought tolerance 	Gazipur
158	Characterization of rice germplasms under drought stress at reproductive phase using SSR marker	<ul style="list-style-type: none"> To study the genetic diversity of the germplasms 	Gazipur
Heat tolerance			
159	Generation advance and selection of progenies of spikelet fertility introgression lines at BC2F8:9 stage of BRRI dhan28 and BRRI dhan29 background	<ul style="list-style-type: none"> To fix the spikelet fertility QTL and background loci to develop heat tolerant BRRI dhan28 and BRRI dhan29 	Gazipur
160	Generation advance and selection of progenies of spikelet fertility introgression lines at BC3F5 stage of BRRI dhan28 and BRRI dhan29 background	<ul style="list-style-type: none"> To fix the spikelet fertility QTL and background loci to develop heat tolerant BRRI dhan28 and BRRI dhan29 	Gazipur
161	Marker-assisted introgression of spikelet fertility loci (qHTSF4.1) from N22 in to two high yielding rice variety BRRI dhan48 and BRRI dhan58	<ul style="list-style-type: none"> To develop heat tolerant BRRI dhan48 and BRRI dhan58 by introgressing spikelet fertility loci through MABC. 	Gazipur
162	Screening rice germplasm and breeding lines for heat tolerance	<ul style="list-style-type: none"> To identify new heat tolerant donor and advanced breeding lines 	Gazipur
Cold tolerance			
163	Exploring new sources of cold tolerance from BRRI Gene Bank collections at seedling stage	<ul style="list-style-type: none"> To identify rice genotypes which can tolerate low temperature at seedling stage 	Gazipur
164	Screening of advanced breeding lines for seedling stage cold tolerance	<ul style="list-style-type: none"> To identify advanced breeding lines which can tolerate low temperature at seedling stage 	Gazipur
165	Screening for reproductive stage cold tolerance of some selected rice genotypes at artificial condition	<ul style="list-style-type: none"> To identify rice genotypes which can tolerate low temperature at reproductive stage 	Gazipur
166	Characterization and evaluation of some selected	<ul style="list-style-type: none"> To identify cold tolerant rice genotypes at natural condition. 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
	rice genotypes for cold tolerance		
167	Phenotyping of RIL population of Bhutanese rice both at seedling and reproductive stage	<ul style="list-style-type: none"> • Phenotyping of Bhutani rice both at seedling and reproductive phase 	Gazipur
Growth studies			
168	Photo-sensitivity test of some advanced breeding lines	<ul style="list-style-type: none"> • To know the photo-sensitivity of advanced breeding lines 	Gazipur
169	Determination of critical photoperiod of some photosensitive rice varieties	<ul style="list-style-type: none"> • To know the critical day length of some photosensitive varieties • To find out the required degree-days for determination of panicle initiation 	Gazipur
Yield potential			
170	Trait discovery for improving yield potential of current high-yielding ideotype	<ul style="list-style-type: none"> • To identify morpho-physiological traits towards improvement of current high-yielding ideotype for higher yield 	Gazipur
171	Investigation of anatomical differences in rice leaves and related C4 species	<ul style="list-style-type: none"> • To identify leaf anatomical differences between cultivated high yielding rice varieties and • To find out leaf anatomical differences between rice and related C4 species 	Gazipur
172	Seed multiplication of thermo-sensitive genic male sterile (TGMS) line for Two-line hybrid system	<ul style="list-style-type: none"> • To evaluate the pollen fertility behavior of TGMS line 	Gazipur
173	Generation of male sterile rice line for two-line hybrid system by editing <i>TMS5</i> gene using CRISPR/Cas9 system	<ul style="list-style-type: none"> • To generate a novel thermo-sensitive genic male sterile line by editing <i>TMS5</i> gene via CRISPR/Cas9 for two-line hybrid system and • To evaluate the suitability of the TGMS line in two-line hybrid breeding program 	Gazipur
174	Dissemination of BRRI newly developed Boro varieties in Mymensingh and Jessore regions	<ul style="list-style-type: none"> • Dissemination of recently developed BRRI varieties (eg. BRRI dhan84, 86, 88, 89) for improving food and food and nutrition among farmers 	Mymensingh and Jessore regions
Crop weather information			
175	Automatic weather station data recording, transfer, storage and maintenance	<ul style="list-style-type: none"> • To collect and storage of automatic weather station data 	Selected R/S
176	Manual weather station data recording, transfer, storage and maintenance	<ul style="list-style-type: none"> • To collect and to storage of different weather station data 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
SOIL SCIENCE DIVISION			
Fertility Assessment of Rice Soils and Nutrient use efficiency in rice			
177	Increase N use efficiency through nanotechnology	<ul style="list-style-type: none"> To increase NUE by urea-HA nanohybrid over PU or polymer coated fertilizer 	Gazipur
178	Study on Nitrogen Mineralization rate of Gut-urea and Prilled-urea through Applicator in Boro Rice	<ul style="list-style-type: none"> To compare the N-mineralization rate and To increase N use efficiency 	Gazipur
179	Fertilizer management for high yielding premium quality rice	<ul style="list-style-type: none"> To find out the suitable fertilizer combination for increasing yield and quality of premium rice 	Gazipur
180	Nutrient management for growing four crops in a year	<ul style="list-style-type: none"> To increase crop production To maintain soil fertility and improve nutrient use-efficiency and To determine nutrient depletion / mining. 	Gazipur
181	Determination of N fertilizer doses for ALART materials/new BRRI varieties	<ul style="list-style-type: none"> To determine optimum N doses for ALART materials / newly released varieties. 	Gazipur
182	Effect of nitrogen and potassium rates on modern rice cultivation	<ul style="list-style-type: none"> To find out the suitable combination of N and K for MV rice cultivation and To study the N and K dynamics in soil and plant. 	Gazipur
183	Performance of BRRI rice varieties under P deficient soil	<ul style="list-style-type: none"> To find out P efficient rice varieties 	Gazipur
184	Effect of different micronutrients on growth and yield of rice	<ul style="list-style-type: none"> Characterization of soil related to micronutrient status of single, double and triple rice cropped area. 	Some selected districts
185	Nutrient management for diversified cropping in Bangladesh (NUMAN)	<ul style="list-style-type: none"> Develop and test tools for sustainable nutrient management for intensively cropped areas of north-west Bangladesh, the emerging cropping systems based on CA and for coastal zone soils of southern Bangladesh. 	North-west and Southern
Identification and management of nutritional disorder			
186	Long-term missing element trial at BRRI regional station	<ul style="list-style-type: none"> To determine nutrient mining problem on soil fertility and its influence on rice yield To find out nutrient management options for correcting soil problems 	BRRI regional stations
187	Long-term effect of organic and inorganic nutrients on yield and yield trend of lowland rice	<ul style="list-style-type: none"> To evaluate changes in soil physical, chemical and biological properties and To determine management options for solution of soil problem(s) 	Regional stations
188	Consequences of continuous wetland rice cropping on rice yield and soil health	<ul style="list-style-type: none"> To evaluate soil fertility and rice yield changes over time and To find out mitigation options of soil health 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
189	Delineating rice yield limiting soil factors for some selected paddy soils angladesh	<ul style="list-style-type: none"> To identify rice yield limiting factors of selected paddy soils in Habiganj, Faridpur, Rangpur and Gazipur and To find out an appropriate nutrient package for maximum rice yield. 	Some selected districts
190	Determination of Critical Limit of Nutrients for Major Soils and Crops	<ul style="list-style-type: none"> Delineation of the present status of different nutrients in calcareous, non-calcareous, piedmont and terrace soils of AEZ 18, 19 and 20. Determination of critical limit of P, K, S, Zn and B for different soils and rice crop. 	AEZ 18, 19 and 20.
Integrated nutrient management for intensive rice cropping			
191	Integrated nutrient management for double and triple rice cropping for maximizing productivity	<ul style="list-style-type: none"> To improve land productivity and soil health under intensive cropping system. 	Some selected districts
192	Performance of vermicompost and poultry manure on rice yield and soil health	<ul style="list-style-type: none"> To find out the effect of poultry manure and vermicompost with chemical fertilizers on yield and yield attributes of rice and its impacts on soil nutrient status and uptake of micronutrients by rice plants. 	Gazipur
193	Increase rice yield through the organic and inorganic amendment	<ul style="list-style-type: none"> To increase rice yield in double rice cropping system and To find out appropriate dose of Silicon in rice cultivation 	Gazipur
194	Determination of soil phosphorus, potassium and carbon fractions after long term fertilization in wetland rice soil	<ul style="list-style-type: none"> To investigate long-term fertilization effects on soil P, K and Carbon fractions 	Gazipur
195	Aggregate stability of paddy soil comparison on three and four crops pattern in Bangladesh	<ul style="list-style-type: none"> To assess the changes of inorganic carbon and nitrogen content, physical and hydraulic properties of the soil with long-term applications of organic and inorganic under three or four cropping system 	Some selected districts
Greenhouse gas emission study			
196	Quantification of methane gas emission from farmers' rice field under different water management practices	<ul style="list-style-type: none"> To determine methane emission from farmers' rice field under AWD and CSW conditions and To develop a technology for increased crop productivity with reduced negative environmental impacts. 	Some selected districts
197	Mitigating Greenhouse Gas (GHG) emissions from Rice-based Cropping Systems through Efficient Fertilizer and Water Management	<ul style="list-style-type: none"> To quantify GHG emission from rice-based cropping system under different water and N management and To develop a technology for increased crop productivity with reduced negative environmental impacts. 	Some selected districts

SI No.	Research Title	Objective (s)	Location (s)
198	Effect of different organic sources for amelioration of industrial polluted area of Sreepur, Gazipur	<ul style="list-style-type: none"> To characterize the bio- physio-chemical properties of heavy metal polluted industrial area of Sreepur, Gazipur To determine the mineralization rate of OM in heavy metal polluted soil and To determine the effect of OM on crop yield and soil health 	Sreepur, Gazipur
199	Effect of biochar on rice yield and soil health on problem soils	<ul style="list-style-type: none"> Optimum rate of biochar for rice cultivation in charland and saline soils Increased rice yield, improved soil health and lower GHG emission 	Some selected districts
Soil Microbiology and Biofertilizer			
200	Evaluation of bio-organic fertilizer for the improvement of rice yield and soil health	<ul style="list-style-type: none"> To evaluate the efficacy bio-organic fertilizer for growth and yield of rice and To assess the impact of bio-organic fertilizer on soil health 	Some selected districts
201	Soil and plant processes as influenced by temperature	<ul style="list-style-type: none"> To determine the influence of temperature on nutrient mineralization from INM and chemical fertilizer amended soil To asses changes of microbial population and beneficial microbial community under varied temperature regimes and fertilizer management practices in this soil 	Gazipur
202	The influence of industrial pollution on soil microbial biomass C, N and total microbial population	<ul style="list-style-type: none"> To determine soil microbial biomass C, N and total microbial population and To find out relation with soil microbial properties and degree of industrial pollution 	Gazipur
ENTOMOLOGY DIVISION			
203	Pest monitoring in BRRI farm.	<ul style="list-style-type: none"> To study the insect pests and their natural enemy incidence at BRRI farm and to create a database to develop a forecasting system. 	Gazipur
204	Insect pests and natural enemy in light trap.	<ul style="list-style-type: none"> To study the pest and their natural enemy incidence patterns in rice fields and to create a database to develop a forecasting system. 	Gazipur
205	Survey of rice insect pests in selected AEZ's of Bangladesh.	<ul style="list-style-type: none"> To find the incidence patterns of major insect pests and their natural enemies in different Agro-ecological zones (AEZs) and To examine the relationship between biotic and abiotic factors on their abundance. 	Selected AEZ's
206	Development of bioclimatic models to forecast the dynamics of rice insect pests.	<ul style="list-style-type: none"> To develop, validate, demonstrate and assist rice growers to adopt an integrated system for the management of rice insect pests. 	Selected AEZ's
207	Impact of lighting period on the trapping of insect.	<ul style="list-style-type: none"> To find out effective lighting period for maximum insect trapping. To find out suitable insect catching time and To reduce the trapping of natural enemies. 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
208	Response of insect pests to elevated salinity in soil and aquatic condition.	<ul style="list-style-type: none"> To know the effects of salinity on insect pest's incidence of rice plant. 	Gazipur
209	Behavioral adaptation of RLR against global warming.	<ul style="list-style-type: none"> To identify the effects of temperature elevation on life cycle of rice leaf roller. 	Gazipur
210	Species composition of stem borer in Rajshahi region	<ul style="list-style-type: none"> To identify the stem borer species in the selected Rajshahi region 	Rajshahi region
211	Conservation of natural enemies through ecological engineering approaches.	<ul style="list-style-type: none"> To conserve natural enemies through ecological engineering approaches 	Gazipur
212	Study on entomogenous fungi to control BPH.	<ul style="list-style-type: none"> To isolate the fungi from naturally infected insects To explore suitable media for mass production of the endogenous fungus and its use in BPH management 	Some selected districts
213	Effect of dead heart and whitehead on grain yield of BRRI rice varieties	<ul style="list-style-type: none"> To determine the compensation abilities of different rice varieties against yellow stem borer damage To know the relationship between YSB damage and yield loss. 	Gazipur
214	Test of different insecticides against major insect pests	<ul style="list-style-type: none"> To evaluate the effectiveness of commercial formulations of different insecticides against major insect pests of rice 	Gazipur
215	Effect of selected botanicals (neem and mahogany etc.) on major rice pests.	<ul style="list-style-type: none"> To identify effectiveness of eco-friendly plant materials (mahogany and neem) against major rice insect pests (SB, RLR and BPH). 	Gazipur
216	Fumigation action of botanical oils against rice stored grain insects.	<ul style="list-style-type: none"> To find out the effective plant-derived insecticidal compounds against stored grain pests 	Gazipur
217	Test of insecticides against major stored grain pests of rice.	<ul style="list-style-type: none"> To evaluate the effectiveness of commercial formulations of different insecticides against major stored grain pests of rice 	Gazipur
218	Use of nanoparticle for controlling rice insect pests	<ul style="list-style-type: none"> To develop nano-particle based pest management in rice and To reduce chemical pesticide load in environment 	Gazipur
219	Analysis of insecticide residues in rice.	<ul style="list-style-type: none"> Detection of insecticide residues in rice grain, straw, bran oil, husk and soil and Assess the human health and ecological risk to pesticide use in rice field. 	Gazipur
220	Effect of insecticides on natural enemies of rice insect pests	<ul style="list-style-type: none"> To identify relatively safer insecticides for IPM program 	Gazipur
221	Effect of selected insecticide for stem borer management	<ul style="list-style-type: none"> To find out effective insecticide for stem borer management. 	Gazipur
222	Screening of rice germplasm, advance line against major insect pests.	<ul style="list-style-type: none"> To identify resistant rice germplasm against major insect pests 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
223	Hybridization for the development of planthopper resistant rice variety.	<ul style="list-style-type: none"> To develop BPH resistant advance breeding lines 	Gazipur
224	Identification of BPH resistant sources from local germplasm.	<ul style="list-style-type: none"> To identify BPH resistant germplasm and To characterize BPH resistant germplasms using BPH resistant linked markers 	Gazipur
225	Suppression of serotonin synthesis in rice using CRISPR Cas9 for insect control	<ul style="list-style-type: none"> To develop insect resistant advance breeding lines and To reduce the use of insecticides 	Gazipur
226	Pheno-genomic studies of BPH & Gall midge resistance donor and advance breeding lines of rice	<ul style="list-style-type: none"> To estimate both molecular and morphological variation among the genotypes resistance to BPH & Gall midge 	Gazipur
227	Identification of novel genetic sources of local germplasms related to WBPH resistance	<ul style="list-style-type: none"> To find resistance sources of rice germplasms under greenhouse conditions 	Gazipur
228	Use of solar light trap for insect pests management in crop field.	<ul style="list-style-type: none"> To test the efficacy of BRRI solar light trap for insect pest management in rice and vegetable fields. 	Some selected districts
229	Use of sex pheromone to control rice leafroller, <i>C. medinalis</i> .	<ul style="list-style-type: none"> To test the efficacy of sex pheromone against rice leafroller in rice field and To control rice leaf roller without insecticide. 	Gazipur and R/S
230	Strengthening of environmentally sound insect pest management for enhancing rice yield	<ul style="list-style-type: none"> To procure modern equipment for advanced research on insect pest management Reducing insecticide use in rice field To reconstruct green house of entomology division To develop model for forecasting insect pest outbreaks in rice field To identify brown planthopper resistance local genotypes and genes 	Gazipur
231	Ecologically based management of rats in rice field	<ul style="list-style-type: none"> To control rats in rice field To measure the impact of ecologically based rodent management practices on rat abundance, costs of management actions, damage to crops, and yield of crops 	Gazipur
PLANT PATHOLOGY DIVISION			
232	Survey and monitoring of rice diseases in selected areas	<ul style="list-style-type: none"> To investigate the present status of different rice diseases in different climatic environments To update disease crop calendar. 	Selected districts of Bangladesh
233	Monitoring of rice diseases in HIZR and healthier rice under confined condition	<ul style="list-style-type: none"> To determine the incidence and severity of rice diseases on the genotypes. 	Selected districts of Bangladesh
234	Pathotypic and genetic diversity of <i>Rhizoctonia solani</i>	<ul style="list-style-type: none"> To estimate the genetic diversity of <i>R. solani</i> AG1-IA using ITS region sequences 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
	AG1-IA	<ul style="list-style-type: none"> To examine differentiation in aggressiveness of the isolates using seedling/plant assays in the greenhouse/field and To determine the relationship between geographic origin and the pathogenic as well as genetic variability of <i>R. solani</i> AG1-IA populations 	
235	Molecular characterization of bakanae causing fungi in Bangladesh	<ul style="list-style-type: none"> To find out the fungi associated with bakanae disease of rice in Bangladesh 	Selected districts of Bangladesh
236	Development of differential system of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> and study on its molecular diversity	<ul style="list-style-type: none"> To identify a standard differential set of isolates of <i>X. oryzae</i> pv. <i>oryzae</i>; To know the diversity of <i>X. oryzae</i> pv. <i>oryzae</i> 	Gazipur
237	Isolation and identification of rice kernel bunt pathogens and their pathogenicity test– another emerging disease of rice.	<ul style="list-style-type: none"> To isolate and identify of causal agent of Kernel bunt disease 	Gazipur
238	Effect of drought tolerant microbes (<i>Pseudomonas</i> spp. and <i>Trichoderma</i> spp.) on drought response of rice	<ul style="list-style-type: none"> To identify potential microbes for drought tolerance in rice and To find out the efficacy of microbes as drought tolerance in rice 	Gazipur
239	Determination of toxins from infected seeds by seed borne pathogens	<ul style="list-style-type: none"> To determine the level of major toxins in contaminated seeds and To identify deterioration of antioxidant properties in infected seeds 	Gazipur
240	Studies on entomopathogenic fungi (<i>Metarhizium anisopliae</i>) to control BPH	<ul style="list-style-type: none"> To isolate the entomopathogenic fungi from naturally infected insects To identify the pathogenicity of entomopathogenic fungi against BPH and To examine suitable media (grains of rice, wheat and maize, different liquid and culture media) for mass production and find out appropriate rate of application for BPH management 	Gazipur
241	Development of an effective inoculation technique for Sheath rot disease screening	<ul style="list-style-type: none"> To find out an effective and efficient inoculation technique for ShR disease development 	Gazipur
242	Development of a new rating scale for sheath rot disease scoring	<ul style="list-style-type: none"> To develop a standard scoring system will be easy to score and will be widely used 	Gazipur
243	Factors affecting recent outbreak of rice tungro disease	<ul style="list-style-type: none"> To identify the causes of recent tungro outbreak in Bangladesh. 	Gazipur and Cumilla
244	Identification of the source of infection of rice false smut disease	<ul style="list-style-type: none"> To disclose if the spores of <i>Ustilaginoidea virens</i> are in the air or not To identify if seeds are the carrier of the pathogen or not and 	Some selected districts

SI No.	Research Title	Objective (s)	Location (s)
		<ul style="list-style-type: none"> To identify if soil is the carrier of the pathogen or not 	
245	Improvement of differential system for rice blast disease in Bangladesh	<ul style="list-style-type: none"> To select new differential blast isolates To identify candidate resistant gene(s) or source(s) and To monitor regularly of the evolution of new races 	Gazipur
246	Isolation of potential fungi for controlling major weeds of rice	<ul style="list-style-type: none"> To identify potential fungi for controlling major weeds of rice 	Gazipur
247	Regional Yield Trial of blast resistant materials	<ul style="list-style-type: none"> To develop blast resistant variety for Bangladesh 	R/S
248	Exploring new sources of resistance and pyramiding blast resistant gene in Boro rice.	<ul style="list-style-type: none"> To find new source of major resistant gene(s) against blast disease in the native land races and To introgression of known resistant genes and/or gene pyramiding to develop durable blast resistant variety 	Gazipur
249	Screening of advanced rice breeding lines and land races against Blast and Sheath Blight diseases	<ul style="list-style-type: none"> To identify the source of resistance against blast and sheath blight diseases of rice 	Gazipur
250	Introgression of Blast resistant genes into BRR1 dhan47	<ul style="list-style-type: none"> To develop durable blast resistant variety harboring <i>Pi40</i> and <i>Pi9</i> genes 	Gazipur
251	Identification of major blast resistant genes in jhum rice.	<ul style="list-style-type: none"> To find out blast resistant source(s) of <i>Pi</i> genes 	Gazipur
252	Exploring new source of blast resistance in native rice germplasm	<ul style="list-style-type: none"> To identify new sources of resistance from upland rice germplasm To assess the diversity based on phenotypic reactions and molecular marker 	Gazipur
253	Improvement of BRR1 varieties for resistance to blast and bacterial blight diseases using marker assisted backcross breeding	<ul style="list-style-type: none"> To develop durable resistant cultivars through pyramiding of both BB and blast genes (broad spectrum resistance) 	Gazipur
254	Identification of resistant sources and gene pyramiding of bacterial blight and blast resistance into the background of BRR1 dhan29 through MAS	<ul style="list-style-type: none"> To identify bacterial blight and blast resistant sources and To develop high yielding bacterial blight and blast resistant pre-breeding lines 	Gazipur
255	Pyramiding of major BB resistant gene(s) in susceptible rice varieties/lines.	<ul style="list-style-type: none"> To introgress major BB resistant gene(s) into the selected cultivar for durable resistance 	Gazipur
256	BB resistance and yield performance of selected breeding lines	<ul style="list-style-type: none"> To determine the resistance against BB and To evaluate yield performance of selected materials 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
257	Gene detection of bacterial blight (BB) resistance in local rice cultivars using phenotypic and molecular studies	<ul style="list-style-type: none"> To identify BB resistant genes in native cultivars 	Gazipur
258	Detection of major resistant genes and pyramiding of bacterial blight resistance into parental lines of hybrid rice using MABC	<ul style="list-style-type: none"> To screen out available maintainers and restorers against differential isolates of BB and To develop pyramiding of bacterial blight resistant hybrid rice parental lines carrying <i>Xa4</i>, <i>xa5</i>, <i>xa13</i> and <i>Xa21</i>. 	Gazipur
259	Screening of LST against BB	<ul style="list-style-type: none"> To identify resistant source(s) against BB 	Gazipur
260	Screening of rice germplasm against Bakanae disease	<ul style="list-style-type: none"> To identify the resistant sources against bakanae disease of rice. 	Gazipur
261	Screening of land races against Sheath blight diseases	<ul style="list-style-type: none"> To identify the resistant source against sheath blight diseases of rice. 	Gazipur
262	Linkage and QTL mapping of tungro resistance in rice	<ul style="list-style-type: none"> To identify significant QTLs with linked marker for tungro resistance in rice land race Kumragoir. 	Gazipur
263	Development of prebreeding materials for tungro resistance	<ul style="list-style-type: none"> To develop tungro resistant advanc lines. 	Gazipur
264	Development of blast resistant varieties using differential system and molecular markers	<ul style="list-style-type: none"> To develop blast resistant varieties for Bangladesh. 	Gazipur
265	Studies on the genetic mechanism of rice blast and gall midge resistance in BRR1 dhan33	<ul style="list-style-type: none"> To know the genetic mechanism of rice blast and gall midge resistance in BRR1 dhan33 and To identify marker data for developing blast and gall midge resistant varieties through MAS. 	Gazipur
266	Linkage and QTL mapping of blast resistance in BR16	<ul style="list-style-type: none"> To identify significant QTLs with linked marker for blast resistance in BR16. 	Gazipur
267	Detection and confirmation of blast resistance genes in land races using differential system	<ul style="list-style-type: none"> To characterize the land races against blast disease 	Gazipur
268	Development of inoculation technique for false smut disease	<ul style="list-style-type: none"> To develop artificial inoculation technique of rice false smut disease 	Gazipur
269	Identification of the primary source of natural infection of rice false smut disease	<ul style="list-style-type: none"> To understand the disease cycle of RF Sm in nature 	Gazipur
270	Effects of RFSm contaminated seeds on quality	<ul style="list-style-type: none"> To see the effects of seed contamination on the attributes of seed quality 	Gazipur
271	Investigation of grain quality and nutritional status of rice	<ul style="list-style-type: none"> To determine the grain quality in terms of seed health, nutritional value and 	Some selected

SI No.	Research Title	Objective (s)	Location (s)
	infected by major diseases	physicochemical properties	districts
272	Developing an algorithm between the severity of sheath rot disease and yield reduction in rice	<ul style="list-style-type: none"> To develop an algorithm associating the levels of severity of sheath rot disease and reduction of grain yield in rice 	Gazipur
273	Crop loss assessment at different stages of rice caused by bacterial blight	<ul style="list-style-type: none"> To estimate yield loss due to bacterial blight and To know the stage of rice which is responsible for maximum yield loss 	Gazipur
274	Diagnoses of physical environment and pathogen biology responsible for rice blast disease outbreak in Bangladesh	<ul style="list-style-type: none"> To find out the reasons of recent rice blast outbreak in Bangladesh. 	Some selected location
275	Up-scaling of the management of rice seedling blight disease in farmers seed bed during boro	<ul style="list-style-type: none"> To test the efficacy of seedling blight disease management technology at field condition 	Some selected location
276	Evaluation of commercial biopesticides against major rice diseases	<ul style="list-style-type: none"> To screen the effective biopesticides for rice diseases 	Some selected location
277	Isolation of effective bacterial isolate for management of sheath blight disease	<ul style="list-style-type: none"> To isolate and identify the effective isolates against sheath blight disease 	Gazipur
278	Management of Sheath blight disease using <i>Trichoderma harzianum</i>	<ul style="list-style-type: none"> To investigate the efficacy of <i>Trichoderma harzianum</i> 	Gazipur
279	Bakanae disease control with integrated approach	<ul style="list-style-type: none"> To find organic amendments for controlling bakanae disease. 	Cumilla and Habiganj
280	Identification of crop damage phenomenon by red eelworm and their management	<ul style="list-style-type: none"> To identify whether red eelworm cause significant crop damage or not and To formulate the sound management strategy to control the organism if they are pathogenic to rice. 	Gazipur
281	Identification of potential bio-control agents and formulation of biopesticides against Bakanae disease of rice	<ul style="list-style-type: none"> To identify and confirm effective microbes (<i>Bacillus</i> spp, <i>Pseudomonas</i> spp., <i>Trichoderma</i> spp.) <i>in vitro</i> and molecularly as sources of biocontrol agent/s for controlling bakanae disease and To find out suitable carrier materials with prolong shelf life for biopesticide formulation 	Cumilla and Habiganj
282	Chemical control of sheath rot disease of rice under different planting time	<ul style="list-style-type: none"> To find out effective fungicide/s against Sheath rot and To identify time most conducive time for sheath rot disease development 	Gazipur
283	Development of nano particle mediated fungicide for rice blast	<ul style="list-style-type: none"> To develop nano particle mediated fungicide for neck blast disease management as 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
	disease management in Bangladesh	curative measure	
284	Integrated management of rice tungro disease	<ul style="list-style-type: none"> To manage the rice tungro disease in the field through integrated approaches. 	Cumilla
285	Evaluation of new chemicals against Blast, Bacterial blight, Sheath blight, False smut, Sheath rot and Bakanae diseases of rice	<ul style="list-style-type: none"> To find out the effective chemicals suitable for Blast, ShB, False smut, Bakanae and Bacterial blight diseases. 	Gazipur
286	Integrated management of blast disease for enhancing rice production in relation to climate change	<ul style="list-style-type: none"> To minimize yield loss due to blast disease. To build up farmers awareness on blast disease management. 	Gazipur
FARM MACHINERY AND POSTHARVEST TECHNOLOGY DIVISION			
Development of Agricultural Machines			
287	Evaluating and modifying of BRRI developed machines	<ul style="list-style-type: none"> To verify the quality of BRRI machines To identify the functional problems of farm machines and To improve the performance of farm machines 	Gazipur (Workshop BRRI)
288	Design and development of a head feed power thresher	<ul style="list-style-type: none"> To design and develop a head feed thresher To conduct test of the thresher for its performance and capacity To compare the performance with the existing threshers 	Gazipur
289	Design and development of whole feed mini combine harvester	<ul style="list-style-type: none"> To assess combine harvester field performance, general condition, durability, repair and maintenance requirements To check the fuel consumption and hourly production of the combine harvester under different working conditions To obtain operator views regarding suitability of combine harvester. 	Gazipur
290	Design and development of head feed mini combine harvester	<ul style="list-style-type: none"> To design a head feed, combine harvester To manufacture the designed combine harvester prototype and To carryout field performance test of the developed combine harvester prototype 	Gazipur
291	Development of manual seed sower machine for raising mat type seedling	<ul style="list-style-type: none"> Improvement of manual seeds sower machine Performance evaluation of seeds sower machine 	Gazipur
292	Performance evaluation of power operated seed sower machine	<ul style="list-style-type: none"> To observe the performance of the seed sower machine To calibrate the sower machine for different rice variety and To calibrate the sower machine at different days of sprouting 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
293	Field evaluation of minimum tillage unpuddled mechanized rice transplanting	<ul style="list-style-type: none"> To compare the agronomic performance To identify the problem 	Gazipur
294	Incorporation of prilled urea deep placement mechanism in the rice transplanter	<ul style="list-style-type: none"> To develop a technology for dispensing seedling and prilled urea simultaneously To incorporate the impeller type (force mode) prilled urea deep placement mechanism in the walking type rice transplanter To test the field performance of the technology and To save the fertilizer application time and cost 	Gazipur
295	Design and development of fertilizer deep placement (FDP) mechanism for existing rice transplanter	<ul style="list-style-type: none"> To design and development of power transmission mechanism from engine to the applicator for both walking and riding type rice transplanter To design and attach adjustable type fertilizer dispensing mechanism in the rice transplanter and To design skid, furrow opener and covering mechanism for fertilizer deep placement 	Gazipur
296	Design and development of power tiller operated rice transplanter	<ul style="list-style-type: none"> To design and development of mat type transplanter suitable to incorporate with 2-wheel tractor (power tiller) To design simple linkage mechanism to incorporate the transplanter with power tiller and To design simple and easy power transmission and hydraulic mechanism suitable to operation in wetland 	Gazipur
297	Design and development of inclined plate hill dispensing seeder for direct seeding of rice	<ul style="list-style-type: none"> To design and development of hill dispensing type direct seeder of rice To design simple metering device for different graded of rice varieties and To design simple and easy power transmission mechanism for furrow making, covering, uniform and hill dispensing of seeds. 	Gazipur
298	Development of a forward motion manual rice transplanter	<ul style="list-style-type: none"> Design and fabrication of a manual operated forward motion rice transplanter Performance evaluation of the developed rice transplanter 	Gazipur
299	Development, validation and adoption of power weeder for wet land rice cultivation	<ul style="list-style-type: none"> To develop and multiplication of the power weeder To demonstration, validation and adaptation the weeder in different location under different rice seasons To reduce the rice production cost 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
300	Design and development of walking type power operated rice transplanter	<ul style="list-style-type: none"> • Design and development of walking type power operated rice transplanter 	Gazipur
301	Ergonomic study of BRRI developed farm machinery for mechanized rice cultivation	<ul style="list-style-type: none"> • To find out the operational suitability of the BRRI multi-rows power weeder • To develop a guideline for safety of operation and • To compare efficiency over other weeding practices 	Gazipur
302	Design and development of a reaper binder	<ul style="list-style-type: none"> • To design and fabricate a reaper binder with locally available materials • To evaluate the performance of the reaper binder and • To identify the functional problems during the field operation 	Gazipur
Milling and Processing Technology			
303	Improvement of air blow type engelberg huller mill	<ul style="list-style-type: none"> • To design and development of cyclone separator for collection husk and bran • To design and fabricate air blowing type rice mill for commercial use and • To test and evaluation modified air blowing type rice mill 	Gazipur
304	Test, evaluation and modification rubber roll de-husker	<ul style="list-style-type: none"> • To modify and development of a rubber roll de-husker and • To evaluate the performance of paddy de-husker 	Gazipur
305	Study the milling recovery of long grain rice varieties in commercial mill	<ul style="list-style-type: none"> • To compare the milling recovery of processed rice in different rice mill and • To evaluate head rice and broken rice percentage 	Gazipur
306	Effect of drying and tempering on milling recovery of BRRI Variety under different moisture content	<ul style="list-style-type: none"> • To find out optimum moisture content for maximum milling yield and head rice recovery 	Gazipur
307	Design and development of a small-scale recirculating type dryer	<ul style="list-style-type: none"> • To design and fabricate of small-scale recirculating type dryer • To study spatial distribution of air temperature and moisture content in and outside of small-scale recirculating type dryer; • To investigate technical and financial performance of small-scale recirculating type dryer and • To study the effect of drying on germination rate and milling quality 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
308	Study the effect of polishing on rice grain quality	<ul style="list-style-type: none"> To find out the suitable levels of polishing on rice To investigation the weight loss during milling To evaluate the Zn and Fe concentration of selected rice varieties and To observe the head rice recovery of different DOM 	Gazipur
309	Design and development of a compact rice mill	<ul style="list-style-type: none"> To design and fabricate of a compact rice mill and To evaluate the performance of fabricated rice mill 	Gazipur
Development of stores and storage technology			
310	Effect of ageing on milling performance of premium quality rice	<ul style="list-style-type: none"> To observe the milling performance of BRR1 dhan50 at different aging 	Gazipur
Renewable Energy Technology			
311	Study the briquette production from rice byproduct	<ul style="list-style-type: none"> To prepare briquettes from rice straw and husk Characterization of different briquettes originated from agricultural residue and To measure the calorific value of the briquettes 	Gazipur
312	Study on Solar Energy Utilization for BRR1 Power Chopper Operation	<ul style="list-style-type: none"> To design mechanism of solar energy utilization and To evaluate the performance of the developed machine 	Gazipur
313	Validation and adaptive field trial of BRR1 developed solar light trap	<ul style="list-style-type: none"> Adaptive trial of BRR1 solar light trap in farmer's field Evaluation of BRR1 solar light trap on rice field, rice-fish and vegetable ecosystem; and Awareness build-up through training and demonstration across the country 	Gazipur
314	Identification of agricultural residues for maximizing biogas production	<ul style="list-style-type: none"> To identify the potential biogas material from agricultural residues To find out the best mixing ratio for maximum biogas production 	Gazipur
315	Development and performance evaluation of a hand operated compression type briquetting machine	<ul style="list-style-type: none"> To develop of a manually operated briquetting machine To evaluate the performance of developed machine 	Gazipur
Popularization of BRR1 developed farm machinery and Postharvest technology			
316	Industrial and farm level extension of BRR1 machinery and Postharvest technology	<ul style="list-style-type: none"> To create awareness and demonstrate the benefit of using BRR1 machines among the farmers To motivate the local entrepreneurs to manufacture BRR1 developed machinery 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
WORKSHOP MACHINERY AND MAINTENANCE DIVISION			
317	Development of machine vision approach in determination of paddy varieties	<ul style="list-style-type: none"> To identify the variety analyzing image of paddy and To develop machine vision algorithm in determination of particular paddy variety 	Gazipur
318	Modification of manually operated transplanter	<ul style="list-style-type: none"> To design the power transmission system of manually operated transplanter and To test the performance of manually operated transplanter 	Gazipur
319	Design and development of manually/power operated mini reaper	<ul style="list-style-type: none"> To develop a manually operated reaper and To evaluate the performance of the manually operated reaper 	Gazipur
320	Modification of reaper travelling wheel for wet-land condition	<ul style="list-style-type: none"> To design the suitable travelling wheel for wet-land condition and To test and evaluate the newly designed wheel at wet-land as well as dry-land condition 	Gazipur
321	Determination of tilling efficiency of power tiller at selected areas in Bangladesh	<ul style="list-style-type: none"> To determine the optimum tillage depth for maximum paddy yield and To identify the amount of fuel consumption according to depth of tillage 	Gazipur
322	Potentiality of engineering workshop for enhancing farm mechanization in selected areas of Bangladesh	<ul style="list-style-type: none"> To investigate the capacity of engineering workshop in agricultural machinery manufacturing To study the production and existing use level of agricultural machinery at different farm operations and To identify the limitations and prospects of engineering workshop at farm level 	Gazipur
323	Survey on status and constraint of farm machinery used in farmer's field at selected areas	<ul style="list-style-type: none"> To investigate the machinery used by the farmers To identify the problems of these machinery to use it and To find out the machinery demands of the farmers 	Gazipur
324	Feasibility study of solar energy use in agricultural machinery	<ul style="list-style-type: none"> To study the suitability of solar energy use in agricultural machinery To evaluate the aptness of solar energy use in agricultural machinery To increase crop production by improving irrigation facilities where electricity is not available 	Gazipur
RICE FARMING SYSTEMS DIVISION			
325	Survey on cropping systems	<ul style="list-style-type: none"> To generate cropping systems database 	All over Bangladesh

SI No.	Research Title	Objective (s)	Location (s)
326	Development of Resource Conservation Technologies and Component technology for Stress prone area	<ul style="list-style-type: none"> To develop cropping pattern technology and component technology for abiotic stress prone area. 	Selected districts
327	Development of Cropping Systems and Component Technology for Hilly Area	<ul style="list-style-type: none"> To develop profitable cropping systems through fertilizer management 	Chottogram Division
328	Development of Cropping Systems and Component Technology for Favorable Environment (Irrigated condition)	<ul style="list-style-type: none"> To develop agro-economically profitable cropping patterns and component technologies for Favorable Environment (irrigated condition) 	Selected districts
329	Validation and Delivery of Farming Systems Technologies	<ul style="list-style-type: none"> To disseminate agro-economically profitable farming systems technologies 	Selected districts
330	Development of Semi-aquatic Crop Production System	<ul style="list-style-type: none"> To develop a model farming system technology for semi-aquatic ecosystem. 	Selected districts
331	Development of homestead agro-forestry systems with exotic date palm (Phoenix dactylifera) in the drought-prone ecosystem	<ul style="list-style-type: none"> To develop agro-forestry system with exotic date palm to increase the system productivity and income of the farmers 	Selected districts
332	Integrated Farming Research and Development for Livelihood Improvement in the Plain land Eco-system	<ul style="list-style-type: none"> To generate climate resilient and site-specific farming system technologies by optimizing land use for the Madhupur tract of Bangladesh 	Tangail
AGRICULTURAL ECONOMICS DIVISION			
333	Farm Level Adoption and Evaluation of Modern Rice Cultivation in Bangladesh	<ul style="list-style-type: none"> Determine the region-wise adoption rate of different MVs in Aus, T. Aman and Boro seasons Estimate the yield of different modern and local rice varieties in different seasons and Delineate the socio-economic and varietal constraints to the adoption of MVs in different regions. 	All over Bangladesh
334	Estimation of Costs and Return of MV Rice Cultivation at the Farm Level	<ul style="list-style-type: none"> Delineate input use pattern in modern Aus, T. Aman and Boro rice cultivation; Estimate the profitability and risk of modern Aus, T. Aman and Boro rice cultivation at farm level and Estimate the factor and income share of MV rice cultivation in different seasons. 	Some selected districts

SI No.	Research Title	Objective (s)	Location (s)
335	Value Chain Analysis of Aromatic Rice in Bangladesh	<ul style="list-style-type: none"> • Map the value chain networks of <i>Tulshimala</i> and <i>Kalijira</i> aromatic rice and the process of value addition along the chain • Determine costs, margins and price spread of value chain and • Identify constraints and opportunities of value chain of aromatic rice and recommend policy measures. 	Gazipur
336	Sustainable Food and Nutritional Security of Smallholder Farmers' in Rural Bangladesh through BRRI Technologies	<ul style="list-style-type: none"> • To evaluate the present food/rice security situation in Rural Bangladesh; • To address the possible ways for increasing rice productivity for achieving food and nutritional security in Bangladesh towards 2030. 	All over Bangladesh
337	Farmers' perceptions and adaptation strategies to climate and environmental changes in drought prone north-west Bangladesh	<ul style="list-style-type: none"> • Delineate farmers' perception of and responses to climate and environmental changes in relation to rice production • Identify the factors affecting the adaptation strategies • Estimate economic viability of the dominant cropping pattern and • Understand farmers' observation along with their suggestions of the impact of climate change on farming; 	North-West region of Bangladesh
338	Climate Change Adaptation of Rural Households in <i>Charland</i> of Bangladesh	<ul style="list-style-type: none"> • Examine <i>charland</i> farm households' biophysical and socioeconomic characteristics • Study <i>charland</i> farm households' perceptions to climatic and environmental changes • Delineate factors that facilitate or constraint adaptation strategies to climate change and • Assess economic viability of existing cropping systems and potential climate-smart cropping systems. 	Charland districts of Bangladesh
339	Possible Adaptation Options and Sustainable Rice Cultivation in <i>Haor</i> Areas: Responsiveness to Casual Flash Flood	<ul style="list-style-type: none"> • Document the extent of magnitude of crop damage due to casual flash flood in the study areas • Search farmer's adaptation options toward rice cultivation and sustain the rice farming in the study areas and • Identify factors facilitates adoption status of rice farmers. 	Haor areas
340	Returns to Investment on Rice varietal Research in Bangladesh	<ul style="list-style-type: none"> • Estimate the rate of return of post 1990s BRRI released varieties replacing pre1990s rice varieties (modern and local) 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
AGRICULTURAL STATISTICS DIVISION			
Statistical methodology and computer programming			
341	Stability Analysis of BRRV Varieties	<ul style="list-style-type: none"> To determine the stability index of BRRV varieties To maintain season, year and location wise database on BRRV varieties 	All R/S of BRRV
342	Genotype x Environment interaction of BRRV varieties	<ul style="list-style-type: none"> To identify BRRV released rice genotypes that have both high mean yield and stable yield performance across different environments for different ecosystem of Bangladesh. 	Gazipur and all regional stations
343	Region specific BRRV variety adoption: A simple way of increasing national production	<ul style="list-style-type: none"> To project national rice production of Bangladesh To find out region specific highest yielded BRRV varieties 	All over Bangladesh
Multivariate Analysis of BRRV Varieties			
344	Maintenance of rice and rice related variable database	<ul style="list-style-type: none"> To maintain up-to-date computerized information on rice and related crops To determine year wise GR of rice production in Bangladesh Make comparison between BRRV stations and BMD stations data. Produce various maps from these data 	Gazipur
345	Regional growth and trend analysis of rice area, production and yield in Bangladesh	<ul style="list-style-type: none"> To determine regional growth rate and trend of area, production and yield of rice in Bangladesh. To measure regional disparities and its mapping of rice production. To estimate the situation of rice regarding its area, production and yield in Bangladesh. 	Gazipur
Agro Meteorology and Crop Modeling			
346	Minimizing agro micro climatological risk factors for maximizing sustainable rice production in Bangladesh	<ul style="list-style-type: none"> To forecast and validation of agro micro climatological factors in rice crop seasons through experimentation for sustainable rice production. To provide advisory services applying the tools of ICT in agriculture and To create database on weather forecasting and agro meteorological advisory services 	Gazipur
347	Simulating of climate change impact on rice growth and yield in Bangladesh using DSSAT model	<ul style="list-style-type: none"> To determine the genetic coefficient of rice varieties of Aus, Aman and Boro season. To simulate the impact of climate change on rice growth and yield To forecast the yield of selected rice varieties at changing climatic conditions. To select suitable rice variety(s) as 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
		adaptation options at different climatic condition for regional rice farmers.	
Utilization of Geographical Information System (GIS) in Rice Research			
348	Suitability mapping of BRRI released varieties	<ul style="list-style-type: none"> To construct suitability map of BRRI released rice varieties. 	Gazipur
349	Climate mapping of temperature and rainfall of Bangladesh	<ul style="list-style-type: none"> To determine areas of critical maximum, minimum temperature and rainfall map of Bangladesh for rice during all seasons and the whole period. 	Gazipur
350	Online Rice crop mapping using satellite remote sensing technology in some selected area of Bangladesh	<ul style="list-style-type: none"> Extracting the temporal signature of rice types and Classification of various rice type (early, late and very late transplanting) based on unique temporal signature and rice area mapping. 	Gazipur
351	Land use and land cover mapping in some selected area of Bangladesh	<ul style="list-style-type: none"> To identify the various objects of land use/land cover (agriculture land, fallow land, Forest, urban area, orchard, Submergence area, water body etc. of a specific area) and To calculate the area of the objects of land use land cover. 	Gazipur
Capacity Building Through Training			
352	Training program on experimental data analysis	<ul style="list-style-type: none"> To train up BRRI scientists on experimental data analysis using different statistical software To make BRRI scientists self-dependent on experimental data analysis and To developed skills on research planning, program and report writing. 	Gazipur
Information & Communication Technology (ICT)			
353	“Rice Doctor” Apps for BRRI	<ul style="list-style-type: none"> To develop rice doctor Apps for BRRI. To manage and maintain rice doctor apps. To host rice doctor Apps at server. 	Gazipur
354	Strengthen & dissemination of modern rice technology and its management information at the farmer door step through RKB Mobile Apps	<ul style="list-style-type: none"> To disseminate RKB at all regional station. To develop and modify the design of RKB. To manage and maintain RKB through regular updating of the information and documents and To develop push notification system 	Gazipur
355	BRKB website management	<ul style="list-style-type: none"> To develop and modify the design of BRKB Website and To manage and maintain BRKB Website through regular updating of the information and documents. 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
356	Dynamic view connectivity system, Bangla searching system and inner banner system for BRKB Website.	<ul style="list-style-type: none"> To construct dynamic view connectivity system. To create Bangla searching system. To develop inner banner system. 	Gazipur
357	BRRRI Web Mail and Group Mail.	<ul style="list-style-type: none"> To create Web mail and Group mail id with password for all scientists and officers of BRRRI and To manage, maintain and update regularly as routine work web mail and group mail of BRRRI. 	Gazipur
358	Developing secure system for BRRRI Web Mail and Group Mail.	<ul style="list-style-type: none"> To develop spamming filtering system (SFS) at BRRRI web mail server and To create automatic active and close system (AACS) at BRRRI web mail server. To develop Secure Sockets Layer (SSL). 	Gazipur
359	Online Application System of BRRRI	<ul style="list-style-type: none"> To develop “Online application system” for BRRRI To host “Online application system” at data center and To manage and maintain “Online application system” through regular updating of the information and documents. 	Gazipur
360	e-File Management System of BRRRI.	<ul style="list-style-type: none"> To setup “e-File Management Software” for BRRRI Head Quarter and all Regional station(R/S) for establishing e-Governance. To setup “e-File (Nothi) Management System” for ensuring faster movement of files, hassle less and paperless office system and To setup “e-File (Nothi) Management System” for increasing transparency & accountability at BRRRI. 	Gazipur
361	e-Tender System of BRRRI	<ul style="list-style-type: none"> To develop “e-Tender system “of BRRRI as per requirement of the Ministry of Agriculture (MoA). To introduce the online tendering system to facilitate the procurement process of BRRRI. To participate in the local and international tender/procurement of BRRRI and To increase transparency, competition and minimize the processing time and effort. 	Gazipur
362	Digitalized Labour Salary Management System of BRRRI	<ul style="list-style-type: none"> To digitalized “Labour Salary Management System” (LSMS) of BRRRI and To manage and maintain LSMS through regular updating with labor management related various information. 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
363	Online Labour wages Management System of BRRRI	<ul style="list-style-type: none"> To online “Labour wages Management System” (LWMS) of BRRRI and To manage and maintain WMS through regular updating. 	Gazipur
364	Digitalized Labor Management System of BRRRI	<ul style="list-style-type: none"> Digitalized “attendance system of BRRRI Labor”. Digitalized and automated “Labor Salary System” Develop a labor data center and Update and modify the web application as user need. 	Gazipur
365	Digitalized Casual Leave Application System	<ul style="list-style-type: none"> To digitalized Casual Leave Application System of Agricultural Statistics division. 	Gazipur
366	LAN and internet connectivity of BRRRI regional station(R/S).	<ul style="list-style-type: none"> To setup Local Area Network (LAN) for all regional station of BRRRI. To setup Internet connectivity for all regional station of BRRRI and To manage and maintain LAN & Internet connectivity of BRRRI regional station. 	Gazipur
367	BRRRI Web Portal Management.	<ul style="list-style-type: none"> To develop and modify the design of BRRRI Web Portal and To manage and maintain BRRRI Web Portal through regular updating of the information and documents. 	Gazipur
368	Management of BRRRI HQ Local Area Network and Internet Connectivity.	<ul style="list-style-type: none"> To increase the infrastructure of BRRRI local Area Network To increase the bandwidth connectivity from 60 Mbps to 70 Mbps or more and To manage and maintain ICT Network of BRRRI 	Gazipur
369	BRRRI Networks Update, Maintenance and Extension.	<ul style="list-style-type: none"> To increase and stimulate awareness to all visitors of Facebook group through ‘BRRRI Networks’ To extend, manage, update and maintain ‘BRRRI Networks’ regularly and To promote all activities, where only official interactions, various problems and their solutions can be posted 	Gazipur
370	Video Conference System of BRRRI (skype system)	<ul style="list-style-type: none"> To develop “Video conference system of BRRRI. (skype system)” for administration, all divisional head and regional station head of BRRRI To develop “Video conference system of BRRRI (skype system)” for research, administration works and innovative interactions 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
371	New version of Management Information System (MIS) of BRRI.	<ul style="list-style-type: none"> To develop new version of Management Information System (MIS) Software for BRRI To manage and maintain MIS of BRRI and To host MIS software at Bangladesh computer council (BCC) 	Gazipur
372	Integrating Digital Signature into e-File (Nothi) System of BRRI and its management.	<ul style="list-style-type: none"> To integrate digital signature into e-File (Nothi) System for every user in BRRI. To incorporate digital signature with e-File (Nothi) system helping by Access to Information (A2i) and Controller of Certifying Authority (CCA) jointly and To provide training by Controller of Certifying Authority (CCA), Ministry of ICT (MoICT) for smooth use of digital signature in e-File (Nothi) system and others 	Gazipur
373	Rice Pest Corner	<ul style="list-style-type: none"> To develop Rice Pest Corner for BRRI. To develop a Web application for rice Pest corner and To manage and maintain Rice Pest Corner 	Gazipur
374	Personal Data Sheet (PDS) of BRRI.	<ul style="list-style-type: none"> To develop “Personal Data Sheet (PDS)” database for all scientists, officers, clerks of BRRI. To develop “Personal Data Sheet (PDS)” database using user name & password. To get BACKUP of “Personal Data Sheet (PDS)” database regularly. 	Gazipur
375	Heritage of BRRI.	<ul style="list-style-type: none"> To develop “Heritage” for all scientists, all officers, all clerks, and all workers of BRRI. To develop “Heritage “for research and administration works and To create and stimulate awareness amongst the present employees of BRRI about ex. Scientists and officer’s great activity. 	Gazipur
FARM MANAGEMENT DIVISION			
Rice production management			
376	Effect of transplanting date and spacing on the yield and yield components of different short duration rice varieties in T. Aman and Boro seasons	<ul style="list-style-type: none"> To find out the suitable transplanting date of different short duration rice variety for maximizing rice yield 	Gazipur
377	Yield maximization of rice through integrated nutrient management in T. Aman and Boro seasons	<ul style="list-style-type: none"> To find out the suitable nutrient management practice for maximizing rice yield 	Gazipur

SI No.	Research Title	Objective (s)	Location (s)
378	Efficacy of mechanical deep placement of urea and seedling transplanting on rice yield in Boro season.	<ul style="list-style-type: none"> To evaluate the efficacy of newly developed mechanical rice transplanter cum prilled Urea applicator 	Gazipur
Survey and development of Data base for labor management.			
379	Monitoring the laborers' wage rate for rice cultivation in different locations of Bangladesh.	<ul style="list-style-type: none"> To document farmers' labor management practices for rice cultivation 	Gazipur and all regional station
Management and utilization of land and other resources			
380	Seed production, management of land, labor, farm implements, flower garden, irrigation and drainage etc.	<ul style="list-style-type: none"> Better utilization of farm land and other resources for smooth running of research activities of BRRI 	Gazipur
ADAPTIVE RESEARCH DIVISION			
Advanced Lines Adaptive Research Trial (ALART)			
381	ALART of promising rice genotypes in T. Aus 2019	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological zones of Bangladesh and Gazipur and To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel. <p>Location Kushtia (Mirpur), Rajshahi (Tanore), Rangpur (Pirganj), Bhola (Sadar), Feni (Sonagazi), Cumilla (Chandina), Habiganj (Sadar), Faridpur (Sadar), Mymensingh (Trishal) and BRRI Gazipur.</p>	
382	ALART: Rainfed Lowland Rice (RLR) genotypes in T. Aman 2019	<ul style="list-style-type: none"> Do <p>Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur</p>	
383	ALART: Rainfed Lowland Rice (RLR Bio) genotypes of Biotechnology in T. Aman 2019 Locations:	<ul style="list-style-type: none"> Do <p>Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur</p>	
384	ALART: Zinc enriched Rice (ZER) genotypes in T. Aman 2019.	<ul style="list-style-type: none"> Do <p>Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur</p>	
385	ALART: Rainfed Lowland Rice (RLR Rang) genotypes of BRRI Rangpur in T. Aman 2019.	<ul style="list-style-type: none"> Do <p>Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur</p>	
386	Premium Quality Rice (PQR) genotypes in Boro, 2020	<ul style="list-style-type: none"> Do <p>Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur</p>	

SI No.	Research Title	Objective (s)	Location (s)
387	ALART: Favorable Boro rice (FBR) genotypes in Boro, 2020	<ul style="list-style-type: none"> Do Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur	
388	ALART: Zinc Enriched Rice (ZER) genotypes in Boro, 2020	<ul style="list-style-type: none"> Do Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur	
389	Insect Resistant Rice (IRR) genotypes in Boro, 2020	<ul style="list-style-type: none"> Do Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur	
390	Favorable Boro Rice-Biotechnology (FBR-BIO) genotypes in Boro, 2020	<ul style="list-style-type: none"> Do Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur	
391	Bacterial Blight Resistant-Biotechnology (BBR-Bio) genotypes in Boro, 2020	<ul style="list-style-type: none"> Do Location Satkhira, Feni (Sonagazi), Cumilla, Rajshahi, Kushtia, Rangpur, Barishal (Sadar), Habiganj), Rajshahi and BRRI Gazipur	
Dissemination of Technologies			
392	SPDP of BRRI dhan27, 48, 82 and 85 in Aus 2019 under GoB.	<ul style="list-style-type: none"> To disseminate BRRI dhan48 and BRRI dhan82 and drum-seeder technologies 	All R/S
393	SPDP of promising rice varieties in Aus 2019 under TRB project.	<ul style="list-style-type: none"> To disseminate BRRI varieties in different region of Bangladesh. 	All R/S
394	SPDP in Jhum system of the slope of hill in Aus 2019 under Hill Project.	<ul style="list-style-type: none"> To disseminate BRRI technologies in the hilly region of Bangladesh. 	Chattogram Division
395	Adaptive trial in Valley of hill (AT) areas in Aus 2019 under Hill Project.	<ul style="list-style-type: none"> To disseminate BRRI technologies in the hilly region of Bangladesh. 	Chattogram Division
396	SPDP in Valley of hill areas in Aus 2019 under Hill Project.	<ul style="list-style-type: none"> To disseminate BRRI technologies in the hilly region of Bangladesh. 	Chattogram Division
397	SPDP of promising rice varieties in T. Aman 2019 under GOB.	<ul style="list-style-type: none"> To disseminate BRRI varieties and technologies in different region of Bangladesh. 	All R/S of BRRI
398	SPDP of promising rice varieties in T. Aman 2019 under TRB Project.	<ul style="list-style-type: none"> To disseminate BRRI varieties and technologies in different region of Bangladesh. 	All R/S of BRRI
399	Head to Head Adaptive trial	<ul style="list-style-type: none"> To disseminate BRRI varieties through block demonstration in different region of Bangladesh. 	All over the country

SI No.	Research Title	Objective (s)	Location (s)
400	SPDP of promising rice varieties in T. Aman 2019 under SPIRA Project.	<ul style="list-style-type: none"> To disseminate BRRRI varieties through block demonstration in different region of Bangladesh. 	All over the country
401	Adaptive trial in Valley of hill (AT) areas in Aman 2019 under Hill Project	<ul style="list-style-type: none"> To disseminate BRRRI varieties and technologies in hilly areas of Bangladesh 	Chattogram Division
402	SPDP in Valley of hilly areas in T. Aman 2019 under Hill Project.	<ul style="list-style-type: none"> To disseminate BRRRI varieties and technologies in hilly areas of Bangladesh. 	Chattogram Division
403	Dissemination of BRRRI dean 71 and 75 in northern districts in T-Aman-Potato-Boro cropping pattern	<ul style="list-style-type: none"> To disseminate suitable BRRRI varieties and technologies in potato growing areas of Bangladesh. 	Northern districts of Bangladesh
404	SPDP of promising rice varieties in Aman, 2019 under NATP.	<ul style="list-style-type: none"> To disseminate BRRRI varieties and technologies in different region of Bangladesh. 	All over the country
405	SPDP of promising rice varieties in Boro 2020 under GOB.	<ul style="list-style-type: none"> To disseminate BRRRI varieties and technologies in different region of Bangladesh. 	All over the country
406	SPDP of promising rice varieties in Boro 2020 under NATP.	<ul style="list-style-type: none"> To disseminate BRRRI varieties and technologies at farmers' level. 	All over the country
407	SPDP in Valley of hilly areas in Boro 20 under Hill Project.	<ul style="list-style-type: none"> To disseminate BRRRI varieties and technologies in hilly areas of Bangladesh 	Chattogram Division
408	SPDP of promising rice varieties in Boro 2020 under TRB Project (No. of trial 20).	<ul style="list-style-type: none"> To disseminate BRRRI varieties and replacement old varieties with new varieties in different region of Bangladesh. 	All over the country
Promotional activities			
409	Farmers' training in Aus 2019, T. Aman 2019 & Boro2020 under GoB, HNRD and TRB	<ul style="list-style-type: none"> To train the farmers on modern rice production technologies To improve the farmers' knowledge and skill on rice production technologies and To create farmers' awareness about recent technologies. 	Some selected districts of Bangladesh
410	Field day in Aus 2019, T. Aman 2019 & Boro2020 under GoB, SPIRA and TRB ASRS	<ul style="list-style-type: none"> To get feedback information directly from the farmers and For rapid dissemination of rice technologies among the farmers. 	Some selected districts of Bangladesh
411	Farmers' training in Aus 2019, T. Aman 2019 & Boro2020 under GoB, HNRD and TRB	<ul style="list-style-type: none"> To train the farmers on modern rice production technologies and To improve the farmers' knowledge and skill on rice production technologies and To create farmers' awareness about recent technologies. 	Some selected districts of Bangladesh

SI No.	Research Title	Objective (s)	Location (s)
Enrichment of own seed stock			
412	Production of quality seeds of BRRRI released recent varieties.	<ul style="list-style-type: none"> To produce quality seeds of BRRRI varieties for adaptive research trials during Aman and Boro season. 	All R/S and Gazipur
TRAINING DIVISION			
413	Training Need Assessment	<ul style="list-style-type: none"> To assess the need and expectations of the participants from the training. 	Gazipur
Capacity Building and Technology Transfer Through Training			
414	Rice production and communication training course for BRRRI scientists. (2-months)	<ul style="list-style-type: none"> To acquire and enrich knowledge on: Modern rice production technologies Identification of field problems of rice cultivation and its solutions Research planning and execution. Data collection, analysis and interpretation Report/scientific article writing and presentation Service rule and job description and Help extension personnel for quick dissemination of rice production technologies 	Gazipur
415	Training on modern rice production technologies for DAE officers. (2-months)	<ul style="list-style-type: none"> To acquire and enrich knowledge on: Modern rice production technologies Identification of field problems of rice cultivation and its solutions and Quick dissemination of rice production technologies in the field 	Gazipur
416	Training on Modern Rice Production Technologies (Yield Maximization) (One week)	<ul style="list-style-type: none"> To train the extension agents so that they can able to use and disseminate modern rice production technologies and Identify and solve the field problems of rice cultivation and help the farmers to increase productivity. 	Gazipur
417	Special Training on Modern Rice Production Technologies for SAAO of Haor Areas. (One week)	<ul style="list-style-type: none"> To train the SAAO of haor areas so that they can able to use and disseminate modern rice production technologies and Identify and solve the field problems of rice cultivation and help the farmers of haor areas to increase rice productivity. 	Gazipur
418	Special training on modern rice production technologies for SAAO's of Khanshama Upazila of Dinajpur and Pirganj Upazila of Rangpur Districts. (One week)	<ul style="list-style-type: none"> To train the extension agents so that they can contribute to increase the adaption of BRRRI varieties in that areas and Capable to use and disseminate modern rice production technologies and Identify and solve the field problems of rice cultivation and help the farmers to increase productivity. 	Gazipur

Sl No.	Research Title	Objective (s)	Location (s)
419	Training on Rice Production and Data Collection. (One week)	<ul style="list-style-type: none"> • This course will enable participants to: • Learn and recognize the basic concepts, principles and techniques of modern rice production • Identify and solve field problems of rice cultivation and • Collect data properly from the experimental plot. 	Gazipur
420	Training on Rice Pest Management (One week)	<ul style="list-style-type: none"> • To increase knowledge of pest (insects, diseases and weed) management in rice ecosystem. • To identify the pest in the field and • To increase ability to solve pest problems in rice field. 	Gazipur
421	Special Training on specific issues related to rice production	<ul style="list-style-type: none"> • Objectives depend on the respective training courses. 	Gazipur
422	Evaluation of imparted training program	<ul style="list-style-type: none"> • Evaluate the overall training program • Assess the trainee's performances • Assess the resource speaker performances 	Gazipur

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A. DISCIPLINE: AGRICULTURE

Sl. No.	Research Title	Objective (s)	Location
GENETIC RESOURCES AND SEED DIVISION(Gene Bank Department)			
1	Characterization of deshi jute (<i>Corchorus capsularis</i> L.) germplasm	<ul style="list-style-type: none"> To characterize the morpho agronomic traits for identification of promising deshi jute germplasm 	Manikganj
2	Characterization of tossa jute (<i>Corchorus olitorius</i> L.) germplasm	<ul style="list-style-type: none"> To characterize the morpho-agronomic traits for identification of promising tossa jute germplasm. 	Manikganj
3	Characterization of kenaf (<i>Hibiscus cannabinus</i> L.) germplasm	<ul style="list-style-type: none"> To characterize the morpho-agronomic traits for identification of promising kenaf germplasm. 	Manikganj
4	Characterization of mesta (<i>Hibiscus sabdariffa</i>) germplasm	<ul style="list-style-type: none"> To characterize the morpho-agronomic traits for identification of promising mesta germplasm. 	Manikganj
5	Evaluation of selected deshi jute (<i>Corchorus capsularis</i>) germplasm	<ul style="list-style-type: none"> To evaluate the selected deshi jute (<i>Corchorus capsularis</i>) germplasm for morpho-agronomic traits for promising types. 	Patuakhali
6	Evaluation of selected tossa jute (<i>Corchorus olitorius</i>) germplasm	<ul style="list-style-type: none"> To evaluate the selected tossa jute (<i>Corchorus olitorius</i>) germplasm for morpho-agronomic traits for promising types. 	Rangpur
7	Evaluation of selected kenaf (<i>Hibiscus cannabinus</i>) germplasm for cold stress tolerant	<ul style="list-style-type: none"> To evaluate the selected kenaf (<i>Hibiscus cannabinus</i>) germplasm for cold stress tolerant 	Rangpur
8	Regeneration of <i>Corchorus</i> and <i>Hibiscus</i> germplasm for conservation	<ul style="list-style-type: none"> To replenish the stock of jute and allied fibre germplasm conserved in the gene bank of BJRI. 	Dhaka and Manikganj
9	Monitoring the viability of jute, kenaf and mesta germplasm conserved in short and long term condition and their maintenance	<ul style="list-style-type: none"> To assess the germination percent of jute, kenaf and mesta germplasm stored in the BJRI gene bank. 	Gene Bank, BJRI, Dhaka
Cytogenetics Department			
10	Molecular characterization of jute germplasm through DNA finger printing	<ul style="list-style-type: none"> To develop genetic finger prints and to estimate genetic relatedness of jute germplasm using SSR markers. 	Laboratory of Cytogenetics Department, Genetic Resources and Seed Division, BJRI, Dhaka.

Sl. No.	Research Title	Objective (s)	Location
Breeder Seed Department			
11	Production of nucleus seed stock of jute and kenaf	<ul style="list-style-type: none"> To produce nucleus seed for breeder seed production in the next year. 	Dhaka and Manikganj, Monirampur and Nasipur
12	Production of breeder seed of deshi jute, tossa jute and kenaf	<ul style="list-style-type: none"> To supply breeder seed of jute & kenaf in different seed producing organizations for the production of Foundation and Certified seed. 	Manikganj Rangpur Kishoreganj Monirampur and Nasipur
BREEDING DIVISION			
Capsularis Department			
13	Hybridization among the selected breeding lines of white jute	<ul style="list-style-type: none"> To create genetic variability having desired qualitative and quantitative traits from diverse parents. 	Dhaka.
14	Evaluation of segregating lines of white jute.	<ul style="list-style-type: none"> To select desired plants from different segregating lines (F₂) and to maintain seeds for future program. 	Dhaka and Manikganj
15	Inter-specific hybridization between two cultivated species of jute by using hormones.	<ul style="list-style-type: none"> To determine the effect of hormone in inter-specific hybridization and performance of hybrids along with their parents of the two cultivated species of jute. 	Dhaka
16	Screening of white jute germplasm for higher yield.	<ul style="list-style-type: none"> To identify high yielding white jute accession 	Manikganj (JAES)
17	Screening of white jute germplasm for salt tolerance.	<ul style="list-style-type: none"> To identify white jute germplasm for salt tolerance 	Kolapara, Patuakhali. (Sub-Station)
18	Evaluation of white jute genotypes for tolerance to drought.	<ul style="list-style-type: none"> To develop drought tolerant jute lines coupled with higher yield. 	Rangpur
19	Evaluation of advanced lines of white jute for short day and low temperature tolerance.	<ul style="list-style-type: none"> To identify short day and low temperature tolerant lines. 	Manikganj, Patuakhali and Rangpur (Station)
20	Preliminary yield trial of high yielding white jute strains.	<ul style="list-style-type: none"> To develop new varieties of white jute which is suitable for early and late sowing with higher yield potential than the existing cultivars. 	Manikganj Rangpur Faridpur and Monirampur
21	Advanced yield trial of early seeding and higher yield breeding lines of white jute.	<ul style="list-style-type: none"> To develop new variety of white jute suitable for short day and low temperature tolerant with higher yield potential than the existing varieties. 	Manikganj and Rangpur (Station)
22	Zonal yield trial of high yielding breeding lines of white jute.	<ul style="list-style-type: none"> To test higher yield and adaptability of three potential breeding lines. 	Manikganj Rangpur Faridpur Kishoreganj

Sl. No.	Research Title	Objective (s)	Location
			Chandina and Monirampur
23	Demonstration of BJRI released varieties of white jute in crop museum.	<ul style="list-style-type: none"> To demonstrate BJRI released varieties of white jute for different kinds of visitors 	Dhaka
24	Maintenance of nucleus seed stock of white jute.	<ul style="list-style-type: none"> To maintain the genetic purity for characteristics and potentialities of the varieties 	Manikganj Rangpur Monirampur and Dhaka
26	Maintenance of advanced lines of white jute	<ul style="list-style-type: none"> To maintain different strains already in use and to be used as parents in different experiments for breeding improvement of white jute varieties 	Manikganj Rangpur Monirampur and Dhaka
Olitorious Department			
26	Hybridization among the selected genotypes of tossa jute	<ul style="list-style-type: none"> To accumulate desirable genes for both qualitative and quantitative characters from diverse parents. 	Dhaka (Central Station)
27	Confirmation of F ₁ s	<ul style="list-style-type: none"> To confirm the true hybrids among the F₁s 	Dhaka (Central Station)
28	Evaluation of segregating lines of tossa jute	<ul style="list-style-type: none"> To select and evaluate of expected plants from the segregating generation. 	Dhaka (Central Station)
29	Anatomical studies of some advanced lines of tossa jute.	<ul style="list-style-type: none"> To evaluate the anatomical feature of advance breeding line compare to some tossa varieties including Indian variety JRO-524 	Manikganj
30	Screening of tossa jute germplasm against salinity.	<ul style="list-style-type: none"> To develop salinity tolerant variety of tossa for increasing cultivated area of jute in Bangladesh 	Dhaka (Central Station) and Patuakhali (Sub-station)
31	Screening of tossa jute germplasm for tolerant to salinity in hydroponic system.	<ul style="list-style-type: none"> To select and isolate superior germplasm with desired characters 	Dhaka (Central Station)
32	Creation of variability through chemical mutagen (EMS) on Jute, Kenaf and Mesta.	<ul style="list-style-type: none"> To create genetic variability using EMS mutagen among jute, kenaf and mesta lines /varieties in respect to various biotic and abiotic stresses. 	Dhaka (Central Station)
33	Creation of variability through physical mutagen (γ rays) on Jute, Kenaf and Mesta seeds	<ul style="list-style-type: none"> To create genetic variability using physical mutagen (γ rays) on Jute, Kenaf and Mesta seeds 	Monirampur, Joshore.
34	Preliminary yield trial of promising lines of tossa jute	<ul style="list-style-type: none"> To evaluate the yield and other agronomic traits of selected progenies at different regional stations. 	Manikganj, Faridpur Monirampur and Rangpur

Sl. No.	Research Title	Objective (s)	Location
35	Preliminary yield trial of selected lines tolerant to water logged condition.	<ul style="list-style-type: none"> To evaluate waterlogged tolerant lines for estimating yield contributing characters. 	Manikganj
36	Advanced yield trial of two breeding lines of tossa jute	<ul style="list-style-type: none"> To develop breeding lines with better performance in respect of fibre yield coupled with other desired traits. 	Manikganj Monirampur Rangpur and Faridpur (Stations)
37	On farm yield trial of an advanced breeding line of tossa jute.	<ul style="list-style-type: none"> To evaluate the yield performance, adaptability and suitability of advanced breeding line at farmer's plots and regional station. 	Manikganj Monirampur Rangpur and Faridpur (Stations)
38	Maintenance of nucleus seed stock of tossa jute	<ul style="list-style-type: none"> To maintain distinctness, uniformity and stability of the existing varieties. 	Manikganj and Monirampur
39	Maintenance of parents of tossa jute.	<ul style="list-style-type: none"> To maintain different strains already in use and to be used as parents in different experiments for breeding improved tossa jute varieties. 	Manikganj, Monirampur and Dhaka
Kenaf and Mesta Department			
40	Rapid generation advance (RGA) system to develop for jute, kenaf and mesta in breeding pipeline.	<ul style="list-style-type: none"> To reduce the breeding cycle in a variety development system. 	Dhaka (Central Station)
41	Hybridization in kenaf and mesta.	<ul style="list-style-type: none"> To create recombinant types by accumulating desirable genes for both qualitative and quantitative characters from diverse parents. 	Dhaka (Central Station)
30	Confirmation and selection in F ₁ generation	<ul style="list-style-type: none"> Confirmation of hybrids derived from different crosses comparing with parents and production of parental population seeds. 	Dhaka (Central Station)
31	Evaluation of segregating lines of kenaf and mesta.	<ul style="list-style-type: none"> Selection of plants from different segregating lines and maintenance of seeds in future program. 	Dhaka (Central Station)
32	Anatomical study of some kenaf promising lines.	<ul style="list-style-type: none"> To evaluate the anatomical feature of promising lines of kenaf. 	Manikganj and Tarabo, Narayanganj.
33	Screening of kenaf germplasm against salinity	<ul style="list-style-type: none"> To select suitable kenaf materials through evaluation of germplasm at saline zone. 	Patuakhali (Sub-station) and neighboring saline area
34	Advanced yield trial of kenaf breeding lines.	<ul style="list-style-type: none"> To develop new varieties of kenaf. 	Manikganj Monirampur and Rangpur
35	Zonal yield trial of high	<ul style="list-style-type: none"> To develop mesta varieties having 	Manikganj

Sl. No.	Research Title	Objective (s)	Location
	yielding advanced lines of Mesta	characteristics of high biomass formation, earliness, smoothness and other desirable attributes.	Kishoreganj and Nasipur
36	On farm yield trial of one advanced line ME-4 of vegetable mesta.	<ul style="list-style-type: none"> To assess the yield performance (leaves and calyx) and other agronomic traits of mesta lines. 	Manikganj Rangpur Kishoreganj Chandina Monirampur and Nashipur
37	Demonstration of BJRI released varieties of kenaf and mesta in crop museum	<ul style="list-style-type: none"> To exhibit and familiar with BJRI Kenaf and Mesta varieties for visitors and all others. 	Dhaka (Central Station)
38	Maintenance of nucleus seed stock of kenaf and mesta	<ul style="list-style-type: none"> To maintain nucleus seed stock of released varieties of kenaf and mesta. 	Manikganj and Rangpur
39	Maintenance of parents of kenaf and mesta.	<ul style="list-style-type: none"> To maintain different strains already in use and to be used as parents in different experiments for breeding improved kenaf and mesta varieties. 	Dhaka (Central Station) and Manikganj
AGRONOMY DIVISION			
Crop Management Department			
40	Effect of sowing time on fibre yield and yield attributes of advanced breeding line O-0412-9-4 and O-043-7-9 of tossa jute	<ul style="list-style-type: none"> To generate information for plant breeders in respect of optimum sowing time for higher fibre yield of advanced breeding line of tossa jute. 	Manikganj and Jessore (Sub-Station)
41	Effect of field duration on yield and quality of tossa jute varieties at different AEZ	<ul style="list-style-type: none"> To assess the yield and quality of fiber of tossa jute varieties O-9897 and O-795 against Indian variety JRO-524. 	Manikganj
42	Effect of sowing date on fibre yield and yield attributes of highly salt tolerant advanced breeding line C-12221	<ul style="list-style-type: none"> To generate information for plant breeders in respect of optimum sowing time for higher fibre yield of salt tolerant advanced breeding line of deshi jute. 	Patuakhali (Sub-station) and neighboring saline area.
43	Effect of harvesting age on fibre yield and yield contributing characters of highly salt tolerant advanced breeding line C-12221.	<ul style="list-style-type: none"> To generate information for plant breeders in respect of optimum harvesting time for higher fibre yield of salt tolerant advanced breeding line of deshi jute. 	Patuakhali (Sub-station) and neighboring saline area
44	Effect of sowing time and variety on growth and yield of indigenous jute genotypes	<ul style="list-style-type: none"> To develop jute variety used as vegetable round the year. 	Rangur (JRRS)
45	Effect of weeding and herbicide management on fibre yield and yield attributes of tossa jute	<ul style="list-style-type: none"> To optimize weeding and herbicide use practices for cost effective jute production method through manipulating weeding and herbicide management 	Manikganj and Faridpur (RS)

Sl. No.	Research Title	Objective (s)	Location
46	Study the effect of weedicide samples for cultivation of jute in field condition	<ul style="list-style-type: none"> To determine the effectiveness of weedicide in terms of weed control in jute field. 	Manikganj and Tarabo, Narayanganj (SS)
47	Effect of different weed management technique on jute seed production	<ul style="list-style-type: none"> To optimize cost effective weed management technique for jute seed production through weeding and herbicide management. 	Rangpur (JRRS)
48	Effect of sowing time and variety on leaf yield, seed yield and yield contributing characters of vegetables jute.	<ul style="list-style-type: none"> To generate location specific appropriate sowing time for higher leaf and seed yield of jute vegetables. 	Rangpur
Physiology Department			
49	Dry matter partitioning of advance olitorius breeding line O-043-7-9.	<ul style="list-style-type: none"> To find out appropriate harvest time, crucial growth period and dry matter partitioning of the advance olitorius breeding line. 	Manikganj and, Faridpur (JRRS)
50	Assessment of jute seed quality produced in different regional and sub-stations of BJRI	<ul style="list-style-type: none"> To find out quality status of seed produced in different stations of BJRI. 	Dhaka (Central Station) Physiology Laboratory
Soil Science Department			
51	Study the nutrient requirement of NPK & S on advance olitorius breeding line O-0411-10-4	<ul style="list-style-type: none"> To determine the nutritional requirement of the advanced breeding line of <i>C. olitorius</i> O-0411-10-4 for its optimum growth and yield. 	Manikganj and Kishoreganj
52	Influence on nutrients of NPK & S on advance olitorius breeding line O-0412-9-4	<ul style="list-style-type: none"> To study the growth, yield and fibre quality with different combinations of NPK and S of the advance olitorius breeding line O-0412-9-4. 	Manikganj and Rangpur
53	Effect of NPKS on Kenaf breeding line KBL 51	<ul style="list-style-type: none"> To determine the nutritional requirements of kenaf breeding line KBL 51 for its optimum growth and yield. 	Manikganj
54	Study the nutrient requirement of NPK & S on advance capsularis breeding line BJC-5050	<ul style="list-style-type: none"> To obtain suitable dose for the production of advance capsularis breeding line BJC-5050. 	Manikganj and Cumilla
55	Response of advanced olitorius breeding line O-0512-6-2 to NPK and S fertilization.	<ul style="list-style-type: none"> To find out the effects of N, P, K and S fertilizers on the growth, yield and quality of the advanced tossa jute breeding line O-0512-6-2. 	Manikganj
56	Influence of foliar and soil applications of zinc on late jute seed production.	<ul style="list-style-type: none"> To investigate the impact of foliar and soil application of zinc on late jute seed production. 	Manikganj.

Sl. No.	Research Title	Objective (s)	Location
PEST MANAGEMENT DIVISION			
Plant Pathology Department			
57	Seed health study of jute, kenaf and mesta collected from different sources for recommendation	<ul style="list-style-type: none"> To study the germination and seed health status due to different seed borne fungal infections in jute, kenaf and mesta collected from different locations of Bangladesh. 	Dhaka (Central Station)
58	Screening of germplasm of jute against stem rot in sick bed	<ul style="list-style-type: none"> To identify the germplasms/ selected lines for resistance against fungal pathogens and as promising lines for the utilization in future research programme. 	Manikganj.
59	Evaluation of new spraying fungicides against seed borne fungal pathogens of jute, kenaf and mesta.	<ul style="list-style-type: none"> To evaluate the new fungicides which are available in the market are needed to be evaluated against the fungal diseases of jute and allied fibre crops as per decision of Pesticide Technical Advisory Committee meeting. 	Manikganj and Kishoreganj (JRRS)
60	Effect of different line spacing sowing method on jute diseases in field and on jute yield & yield contributing characters.	<ul style="list-style-type: none"> To investigate and evaluate the effect of line spacing on pathogenic infestation of jute. 	Faridpur (RS) and On-Farm
61	Comparative study on Die back of jute of different varieties in respect of yield contributing parameters at different AEZ of Bangladesh.	<ul style="list-style-type: none"> To know the status of die back in different jute and kenaf varieties at different jute and kenaf growing areas of Bangladesh.. 	Faridpur and On-Farm
62	Survey on diseases of jute and allied fibre crops at different agro ecological zones of Bangladesh.	<ul style="list-style-type: none"> To make a comparative assessment of incidence of jute diseases in experimental plots and farmers fields 	RS and sub-stations
Entomology Department			
63	Studies on the pest infestations of promising lines of jute and allied fibre crops in different locations	<ul style="list-style-type: none"> To study insect and mite pest infestation among the promising lines and compare with a standard variety in different regions. 	Manikganj Kishoreganj Faridpur Jashore Chandina and Rangpur
64	Screening of jute germplasm for resistance against yellow mite and jute apion	<ul style="list-style-type: none"> To find out germplasm that have of resistant capability against yellow mite and jute apion of jute and allied fibre crops. 	Manikganj Kishoreganj Rangpur and Dhaka
65	Screening of Kenaf and Mesta germplasm for resistance against spiral borer and mealy bug	<ul style="list-style-type: none"> To identify resistant germplasm of kenaf and mesta against spiral borer and mealy bug. 	Faridpur and Patuakhali (SS)

Sl. No.	Research Title	Objective (s)	Location
66	Effect of different date of sowing on spiral borer infestation in kenaf	<ul style="list-style-type: none"> To find the infestation of spiral borer at different sowing time and To monitor the abundance of spiral borer of kenaf at different sowing time 	Faridpur and Patuakhali
67	Efficacy of new acaricides on jute yellow mite under field condition	<ul style="list-style-type: none"> To determine the efficacy of new acaricides for controlling jute yellow mite. 	Manikganj Tarabo, Narayanganj and Dhaka.
68	Efficacy of new insecticides against jute hairy caterpillar under field condition.	<ul style="list-style-type: none"> To determine the efficacy of new insecticides for controlling jute hairy caterpillar. 	Manikganj Tarabo, Narayanganj and Dhaka.
69	Survey of insect and mite pest of jute and allied fibre crops	<ul style="list-style-type: none"> To know information about the nature of incidence, intensity and peak period of insects and mite pest of jute and allied fibre crops 	All Regional and Sub-stations
FIBRE QUALITY IMPROVEMENT DIVISION			
70	Identification of prospective retting microbes from natural sources	<ul style="list-style-type: none"> To search for more active new retting microbes To reduce the retting time and To improve the quality of jute and allied fibers (JAF) 	Dhaka
71	Study the retting behavior and fibre properties of different pre-released varieties of jute	<ul style="list-style-type: none"> To evaluate the retting technique and fibre properties of pipeline pre-released genotypes of jute. 	Manikganj Rangpur Faridpur Kishoreganj Chandina (JRRS), Monirampur and Patuakhali (SS)
72	Study of the properties of jute retting effluent in different AEZ of Bangladesh	<ul style="list-style-type: none"> To ascertain the microbial species and analysis of the of retting effluents in different jute growing districts of Bangladesh. 	Manikganj Faridpur and Rangpur (JRRS)
73	Improvement of the quality of jute retting water for repeated use in artificial tank.	<ul style="list-style-type: none"> To find out the ways and means to improve retting water for repeated use in water scarce environment. 	Dhaka
74	Influence of harvesting time on the physical properties of jute	<ul style="list-style-type: none"> To determine the quality parameter of fibre on the basis of plant age. 	(Manikganj) Rangpur Patuakhali and BUTEX.
JUTE FARMING SYSTEMS DIVISION			
75	Performance of Farmers' Alternative cropping pattern (FA) Boro-Jute-	<ul style="list-style-type: none"> To find out a suitable cropping pattern, to introduce improved technology and new crop and 	Patuakhali (SS)

Sl. No.	Research Title	Objective (s)	Location
	T.Aman against Farmers' pattern (F) Boro- Fallow-T.Aman in medium high land	<ul style="list-style-type: none"> To increase productivity and higher income of the farmers. 	
76	Performance of Farmers' Alternative cropping pattern (FA) Mungbean – Jute - T.Aman against existing Farmers' pattern Fallow-Fallow-T.Aman in medium high land at Patuakhali region	<ul style="list-style-type: none"> To increase cropping intensity and income of the farmers, to introduce improved technology and new crop variety and To engage workless people in the agricultural activities. 	Patuakhali
77	Performance of Farmers' Alternative cropping pattern (FA) Maize - Jute - Patshak - Red amaranth - Brinjal / Chilli in medium high land at Manikganj	<ul style="list-style-type: none"> To increase cropping intensity and income of the farmers and To introduce improved technology and new crop variety. 	Manikganj
78	Development of jute based four-crop pattern for increasing cropping intensity and crop productivity	<ul style="list-style-type: none"> To study the economic feasibility of growing four crops in a same piece of land by incorporating jute, rice, mustard, potato and patshak in the existing two or three crops pattern. 	Rangpur
79	Jute seed crop production in the existing vegetable production system through seedling transplanting	<ul style="list-style-type: none"> To introduce new technologies among the farmers regarding seed production and to make jute seed production profitable as their requirement in the existing cropping pattern 	Faridpur and Monirampur
80	Study on cost and return of jute fibre crop production at farm level in different areas of Bangladesh	<ul style="list-style-type: none"> To find out the area, cost and return of jute and to identify the socio-economic constraints for jute production. 	Faridpur Rangpur Kushtia and Jashore
81	Study on cost and return of kenaf fibre production at farm level in different areas of Bangladesh	<ul style="list-style-type: none"> To find out the area, cost and return of kenaf and to identify the socio-economic constraints for kenaf production. 	Kishoreganj and Rangpur
82	Farmers' training and field days on improved technologies for JAF crops	<ul style="list-style-type: none"> To motivate the farmers for popularizing BJRI evolved technologies through training, demonstration and field days. 	Manikganj Faridpur and Rangpur (JRRS)
83	Technology transfer through BJRI Jute Villages and Jute Blocks	<ul style="list-style-type: none"> To assess the suitability of released varieties and potential technologies in farmer's environment and To identify farmer's constraints for adoption of technologies and generate feedback for further development. 	Manikganj Faridpur and Rajbari

Sl. No.	Research Title	Objective (s)	Location
84	Popularization of different JAF crop varieties of BJRI at farmers' level	<ul style="list-style-type: none"> To disseminate and popularize the variety among jute growers Location: Dhaka, Manikganj, Rangpur, Gaibanda, Kurigram, Nilphamari, Faridpur, Kishoreganj, Monirampur, Chandina, Nashipur, Tarabo and Pirojpur 	
85	On-farm trial of BJRI newly released variety	<ul style="list-style-type: none"> To disseminate the newly released tossa jute variety BJRI Tossa Jute-8 (Robi-1) among tossa jute growing areas in Bangladesh. Location: Manikganj, Rajbari, Faridpur, Magura, Kishoreganj, Rangpur, Dinajpur, Monirampur, Kurigram, Kishoreganj and Patuakhali 	
DISCIPLINE: TECHNOLOGY			
TEXTILE PHYSICS DIVISION			
86	Studies on the properties of jute fibre reinforced technical textiles	<ul style="list-style-type: none"> Product development for diversified uses of jute in collaboration with national and international organizations. 	Dhaka (HQ)
87	Effect of harvesting time and regions on the physico-mechanical properties of BJRI developed different varieties of jute fibre	<ul style="list-style-type: none"> To determine the physical and mechanical properties of jute fibre of different varieties at different harvesting time in different regional stations of BJRI. 	Dhaka (HQ)
88	Effect of fibre loading and surface modification of jute fibre on the mechanical properties of jute fibre reinforced polypropylene / HDPE / PLA composites	<ul style="list-style-type: none"> Fabrication of jute fibre reinforced polypropylene composites for diversification of jute products 	Dhaka (HQ)
89	Studies on the sustainable properties (water usage and energy absorption) of jute material	<ul style="list-style-type: none"> To study the environmental sustainability of jute yarn manufacturing regarding manpower and To observe the environmental sustainability (CO₂ emission) of jute yarn regarding electricity consumption 	Dhaka (HQ)
90	Studies on fibre strength of jute fibre of different reed length and weight	<ul style="list-style-type: none"> To find out the variation of fibre strength with the variation of fibre length 	Dhaka (HQ)
91	Studies on the electrical properties of low temperature plasma treatment of jute	<ul style="list-style-type: none"> To observe the changes of electrical properties of raw jute fibre by low temperature plasma treatment of jute 	Dhaka (HQ)
92	Up-gradating and digitalization of a Guarded Hot Plate (GHP) thermal conductivity measuring instrument.	<ul style="list-style-type: none"> Digitalize the existing thermal conductivity meter to minimize errors and complex manual mathematical calculation with saves time also. 	Dhaka (HQ)

Sl. No.	Research Title	Objective (s)	Location
CHEMISTRY DIVISION			
Fibre Chemistry Department			
93	Chemical and Physical studies on different samples of Jute and allied fibres in order to increase diversified end use of jute.	<ul style="list-style-type: none"> To prepare and characterize easily produced cost effective cellulose from jute in order to produce environment friendly new area of jute materials for diversified uses. 	Dhaka (HQ)
94	Preparation of different types of Acoustics panels by using jute fibre and study their physico-mechanical and chemical properties to ascertain specific uses.	<ul style="list-style-type: none"> To start-up a new dimension for jute diversification. 	Dhaka (HQ)
95	Radiation induced improvement of jute materials.	<ul style="list-style-type: none"> To use the treated jute yarns and fabric very safely and effectively for making bags, packing materials, tents, chair, bench, tin, carpet backing cloths etc., due to its high strength and elongation properties. 	Dhaka (HQ)
96	Improvement of flameproof process with waterproof and fire retardant on jute and jute fabrics for diversified uses.	<ul style="list-style-type: none"> To develop suitable process for imparting desirable flameproof finishes to jute fabrics/ yarns using some locally produced and commercial chemicals as flame retardant in order to make the process environment friendly and economically viable. 	Dhaka (HQ)
97	Development of the physical and chemical properties of activated carbon, ink and charcoal from jute stick and applications in various fields.	<ul style="list-style-type: none"> Pilot scale production, industrialization and development of better quality charcoal, ink and activated carbon for diverse use in various sectors. 	Dhaka (HQ)
98	Development of pulp from jute which are economically viable	<ul style="list-style-type: none"> To develop an eco-friendly and economically viable activated carbon, ink and charcoal production method from jute stick. 	Dhaka (HQ)
99	Studies on the physico-chemical properties of various chemically modified jute fibre and blends with other natural and synthetic fibre for making fashionable clothes for widely textiles uses.	<ul style="list-style-type: none"> Pilot scale production, industrialization and development of new and diversified fashionable products blending with other natural and synthetic fibres. 	Dhaka (HQ)
100	Screening, isolation, characterization and production of fungi and bacteria collected from different jute mills	<ul style="list-style-type: none"> To improve softening quality of jute cutting and to make the fibre production process more efficient. 	Dhaka (HQ)

Sl. No.	Research Title	Objective (s)	Location
CHEMISTRY DIVISION			
101	Production of enzymes from selected fungi and their activity assessment at different condition.	<ul style="list-style-type: none"> To improvement the softening quality of yarn / fabrics. 	Dhaka (HQ)
102	Activity assessment of xylanase and pectinase extracted from jute retting bacteria.	<ul style="list-style-type: none"> To develop easy and low cost technology for fibre extraction to meet up the present prevalent water scarcity during retting season. 	Dhaka (HQ)
103	Preparation of microbial inoculums on the basis of their enzyme activity.	<ul style="list-style-type: none"> Screening for newly isolated microbes and their enzymes for quality jute retting. 	Dhaka (HQ)
104	Improvement of fibre extraction process from fresh, dried and frozen jute ribbon/bark by fibre extractor machine developed by Biochemistry and Microbiology Department, BJRI.	<ul style="list-style-type: none"> To develop technology for mechanization of fibre extraction process without undergoing traditional retting and To test the utility of this mechanically separated fibre. 	Dhaka (HQ)
105	Estimation of β -carotrene (vitamin –A) content of fresh jute leaves of different <i>deshi</i> and <i>tossa</i> varieties.	<ul style="list-style-type: none"> To estimate the beta carotene content of jute leaves and to provide information regarding vitamin-A content of jute leaves for the common people 	Dhaka (HQ)
106	Quality assessment of jute leaf tea.	<ul style="list-style-type: none"> To estimate the vitamin status of jute leaves tea. 	Dhaka (HQ)
107	Production of bio-plastic, pulp and paper from jute fibre	<ul style="list-style-type: none"> To develop industrial product from jute fibre 	Dhaka (HQ)
MECHANICAL PROCESSING DIVISION			
108	Studies on the variation of resin viscosity on the properties of jute fibre reinforced polyester composite.	<ul style="list-style-type: none"> To study the effect of resin viscosity on the properties of woven jute fibre reinforced composite material. 	Dhaka (HQ)
109	Improvement of hessian spinning frame by using a blower fan.	<ul style="list-style-type: none"> To improve the quality of jute yarn as well as jute products. 	Dhaka (HQ)
110	Study on the physical and mechanical properties of jute-banana blended yarn.	<ul style="list-style-type: none"> To produce demand oriented attractive and economically profitable jute banana blended yarn for the buyers. 	Dhaka (HQ)
111	Study on the spinning performance of jute-wool blended yarn	<ul style="list-style-type: none"> To compare the different blended ratio of jute and wool fibre to produce jute-wool blended yarn. 	Dhaka (HQ) Mechanical Processing Division

Sl. No.	Research Title	Objective (s)	Location
112	Study on the spinning performance of Robi-1, JRO-524 & O-9897 jute varieties at BJRI	<ul style="list-style-type: none"> To identify a suitable variety for a suitable jute product a To increase the use of jute and To measure colour, lusture, softness, strength and spinning performance and yarn properties of jute varieties under investigation. 	Dhaka (HQ) Mechanical Processing Division
113	Development of different types of jute bags with Jute-cotton woven fabric of different weave design	<ul style="list-style-type: none"> To produce different types of jute-cotton fabric for making different end products and to increase the use of eco-friendly diversified jute products. 	Dhaka (HQ) Mechanical Processing Division
114	Development of prayer mat from jute yarns/Jute-wool blended yarn	<ul style="list-style-type: none"> To produce new type of prayer mat with the use of all jute yarns by tappet loom and to replace synthetic prayer mat by producing useable jute based prayer mat. 	Dhaka (HQ) Mechanical Processing Division
PILOT PLANT AND PROCESSING DIVISION			
115	Study on the effect of various knitting parameters on color strength and fastness properties of jute cotton lycra knit fabric.	<ul style="list-style-type: none"> To introduce jute as a replacement of synthetic or cotton for apparel purpose. 	Dhaka (HQ)
116	Studies on salt free dyeing of jute with a view to reducing process cost and environment pollution.	<ul style="list-style-type: none"> To develop eco-friendly and cost-effective dyeing of jute. 	Dhaka (HQ)
117	Determination of physico chemical, mechanical and thermal properties of jute waste generated from jute processing industries and identification of economically viable diversified products.	<ul style="list-style-type: none"> To determine physicochemical, mechanical and thermal properties of jute waste generated from jute processing industries and identify economically viable diversified products. 	Dhaka (HQ)
118	Study on the effect of soda concentration during jute dyeing on reactive dye	<ul style="list-style-type: none"> To identify economically cheap chemical process of jute fabrics 	Dhaka (HQ)
119	Development of a special oil stain removing reagent for jute based fabrics and products to increase their diversified usage and market potentiality and identification of characteristics of oil stained treated fabric by different physical method.	<ul style="list-style-type: none"> To develop a special oil stain removing reagent for jute based fabrics and products to increase their diversified usage and market potentiality. 	Dhaka (HQ)
120	Manufacturing of dust resistant knitted jute fabric of different design and construction for improvement of jute knitted fabric uses.	<ul style="list-style-type: none"> To produce dust resistant jute knitted fabric. 	Dhaka (HQ)

Sl. No.	Research Title	Objective (s)	Location
PRODUCT DEVELOPMENT DIVISION			
122	Study the development of jute, cotton, native wool and acrylic blended ladies shawl.	<ul style="list-style-type: none"> To develop and improve jute, cotton native wool and acrylic blended low-cost ladies shawl. 	JTPDC, BJRI Adomdighi, Bogura. Shuborno Char, Noakhali
123	Study on jute, cotton and pineapple blended yarn.	<ul style="list-style-type: none"> To produce jute, cotton and pineapple blended yarn. 	JTPDC
124	Production and development of jute, cotton and silk blended yarn through cotton spinning system.	<ul style="list-style-type: none"> To further development of jute, cotton and silk blended yarn 	JTPDC, BJRI and BSRTI, Rajshahi.
125	Production and development of jute, cotton and polyester blended yarn through cotton spinning system.	<ul style="list-style-type: none"> To produce jute, cotton and polyester blended new yarn. 	JTPDC
126	Study on the development of Bangladesh tossa D (bottom part) for blending with cotton.	<ul style="list-style-type: none"> To develop jute (bottom part) and cotton blended low cost yarn. 	JTPDC, BJRI and People Jute Mill, Khulna.
127	Study on dyeing of jute-cotton blended fabrics with direct dyes.	<ul style="list-style-type: none"> To develop dyeing technology of blended jute products. 	JTPDC, BJRI
128	Study on the comparison of physical properties between jute-cotton-wool blended suiting fabric and 100% cotton suiting fabric.	<ul style="list-style-type: none"> To improve properties jute-cotton-wool blended suiting fabric. 	JTPDC, BJRI
129	Comparative study on jute cotton wool blended yarn and jute cotton blended yarn with same count & ratio.	<ul style="list-style-type: none"> To compare between jute, cotton, wool blended yarn and jute-cotton blended yarn. 	JTPDC, BJRI.
130	Study on the effect of softener on jute cotton blended shirting fabric.	<ul style="list-style-type: none"> To find out suitable softener for jute based blended products. 	JTPDC, BJRI and BUTex, Dhaka and Norshindi.
131	Study on the fastness properties of jute-cotton blended (30:70) printed fabric	<ul style="list-style-type: none"> To improve the fastness of blended fabric. 	JTPDC, BJRI.
132	Studies for the production of jute cotton blended yarns using ring frame processing systems.	<ul style="list-style-type: none"> To produce blended yarn in ring frame processing systems. 	JTPDC, BJRI

BANGLADESH INSTITUTE OF NUCLEAR AGRICULTURE

BANGLADESH INSTITUTE OF NUCLEAR AGRICULTURE
PLANT BREEDING DIVISION

Sl. No.	Research Title	Objective (s)	Location (s)
Rice			
1.	On farm and on station trial of two promising NERICA rice mutants	<ul style="list-style-type: none"> To asses yield performance 	Mymensingh (BINA HQ farm) Magura and Chapainawabganj (Sub-stations) Rajshahi Chapainawabganj Magura Sadar and Kushtia (On-Farm)
2.	On farm and on station trial of three rice lines for fine grain and earliness	<ul style="list-style-type: none"> To asses yield performance grain quality and earliness 	Mymensingh (HQ) Chapainawabganj Rangpur Nalitabari, and Sunamganj (Sub-stations)
3.	On-farm and on station trial of one introgressed bacterial leaf blight resistant rice lines	<ul style="list-style-type: none"> To asses BLB resistance and yield performance 	Mymensingh, (HQ) Jamalpur Rangpur Ishurdi and Sunamganj (Sub-Stations)
4.	Advanced yield trial of temperate nursery rice lines	<ul style="list-style-type: none"> To select desired lines tolerant to low temperature 	Mymensingh (HQ) Sunamganj Rangpur (Sub –Stations) Thakurgaon and Panchagarh (On- Farm)
5.	Preliminary yield trial of high yielding <i>Boro</i> rice lines	<ul style="list-style-type: none"> To select desired lines for earliness and higher yield for Boro season 	Mymensingh (HQ) Rangpur (Sub-station and On-Farm)
6.	Observation trial of upland Aus rice lines	<ul style="list-style-type: none"> To select desired lines for upland ecosystems 	Mymensingh (HQ) and Khagrachari (Sub-station)
7.	Preliminary yield trial of blast resistant rice lines	<ul style="list-style-type: none"> To select desired lines for blast resisitance 	Mymensingh (HQ) Jamalpur and Nalitabari (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
8.	Observation trial of bacterial blight nursery rice lines	<ul style="list-style-type: none"> To select the desired rice lines for bacterial blight resistance with high yield potential 	Mymensingh (HQ) Nalitabari and Jamalpur (Sub-Station)
9.	Observation trial of brown plant hopper resistant rice lines	<ul style="list-style-type: none"> To select the desired rice lines with BPH resistance and higher yield 	Mymensingh (HQ) Nalitabari and Jamalpur (Sub-Station)
10.	Advanced yield trial of rice lines for better grain quality, earliness and higher grain yield	<ul style="list-style-type: none"> To select desirable lines having better grain quality, earliness and higher yield 	Mymensingh (HQ) Magura and Rangpur (Sub-Station)
11.	Regional yield trial of two salt tolerant rice mutants with better grain quality	<ul style="list-style-type: none"> To identify salt tolerant rice lines for better grain quality 	Satkhira (Sadar and Shyamnagar)
12.	Regional yield trial of rice lines for better grain quality and higher grain yield	<ul style="list-style-type: none"> To select desirable lines having better grain quality and higher yield 	Mymensingh (HQ) Magura and Rangpur (Sub-Station)
13.	Regional yield trial of rice lines for premium quality with earliness and higher grain yield	<ul style="list-style-type: none"> To select desirable lines having premium quality, earliness and higher yield 	Mymensingh (HQ) Magura and Chpainawabganj
14.	Advance yield trial of selected salt tolerant rice mutants with fine grain quality and earliness	<ul style="list-style-type: none"> To identify salt tolerant rice lines with fine grain quality 	Satkhira (Sadar and Shyamnagar)
15.	Preliminary yield trial of Brown Plant Hopper (BPH) resistant rice lines	<ul style="list-style-type: none"> To identify brown plant hopper resistant rice lines 	Mymensingh (HQ) Ishurdi and Rangpur
16.	Regional yield trial of promising rice lines in boro season for Haor areas	<ul style="list-style-type: none"> To asses yield performance 	Sunamganj (4) Sadar (2) Dharmapasha, Sunamganj (1) and Netrokona (1)
17.	Preliminary yield trial of BN resistant rice lines	<ul style="list-style-type: none"> To identify blast resistant rice lines 	Mymensingh (HQ) and Rangpur
18.	Screening of BLB introgressed rice lines for costal saline and submergence prone areas	<ul style="list-style-type: none"> To identify BLB resistant rice lines 	Sunamganj and Jamalpur (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
19.	Preliminary yield trial of introgressed bacterial leaf blight resistant rice lines	<ul style="list-style-type: none"> To identify bacterial leaf blight resistant rice lines 	Mymensingh (HQ) and Sunamganj
20.	Preliminary yield trial of selected dual tolerant rice mutant with better grain quality and earliness	<ul style="list-style-type: none"> To identify dual tolerant lines with better grain quality and earliness 	Mymensingh (HQ)
21.	Evaluation of premium quality rice mutant	<ul style="list-style-type: none"> To develop rice variety with premium quality grain 	Mymensingh (HQ) and Chapainawabganj
22.	Selection of elite rice lines for higher salt tolerance	<ul style="list-style-type: none"> To identify suitable salt tolerant high yielding lines 	Harodda, Satkhira Sadar Kamarkati, Asashuni and Satkhira (On-Farm)
23.	Growing of M ₂ populations of two rice cultivars for earliness and higher yield	<ul style="list-style-type: none"> To select desirable mutants for earliness, grain quality and higher yield 	Mymensingh (HQ)
24.	Growing of M ₁ generation of rice for grain quality, earliness and higher yield	<ul style="list-style-type: none"> To select desirable mutants for earliness, higher yield and quality grain 	Mymensingh (HQ)
25.	Growing of M ₃ generation of coastal rice landraces for salt tolerance	<ul style="list-style-type: none"> To identify high yielding salt tolerant rice lines for coastal saline prone areas 	Mymensingh (HQ)
26.	Screening of advanced rice mutants for higher salt tolerance	<ul style="list-style-type: none"> To select desirable mutants for higher salt tolerance 	Satkhira Sadar and Shyamnagar
27.	Growing of cold treated genotypes for agronomic performance	<ul style="list-style-type: none"> To observe the performance of cold treated rice genotypes 	Mymensingh (HQ)
28.	Growing of F ₁ generation of crosses of Binadhan-17 with Chandanath-3, Lekali-1 and Lekali-3	<ul style="list-style-type: none"> To confirm F₁ 	Mymensingh (HQ)
29.	Growing of BC ₁ F ₁ generation of Manjushree-2 X Binadhan-17	<ul style="list-style-type: none"> To confirm BC₁F₁ for cold tolerance 	Mymensingh (HQ)
30.	Growing of M ₁ generation of rice for salinity submergence and drought tolerance	<ul style="list-style-type: none"> To identify salinity, submergence and drought tolerant rice mutants 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
31.	Growing of M ₂ generation of rice for higher yield and earliness for Haor areas	<ul style="list-style-type: none"> To identify high yielding and early maturing rice mutants suitable for Haor areas 	Mymensingh (HQ)
32.	Evaluation of rice lines for stagnant flooding tolerance	<ul style="list-style-type: none"> To select stagnant water tolerant rice lines 	Mymensingh (HQ)
33.	Screening of rice mutants for drought tolerance at seedling and reproductive stages	<ul style="list-style-type: none"> To identify rice mutants for drought tolerance 	Mymensingh (HQ)
34.	Growing of M ₁ generation of sticky rice	<ul style="list-style-type: none"> To select desirable mutants for stickiness 	Mymensingh (HQ)
35.	Evaluation of introgressed salt tolerant rice lines through phenotypic and marker-assisted selection for long slender grain	<ul style="list-style-type: none"> To identify salt tolerant rice lines having long slender grain 	Mymensingh (HQ)
36.	Evaluation of introgressed drought tolerant rice lines through marker assisted selection	<ul style="list-style-type: none"> To identify drought tolerant rice lines 	Mymensingh (HQ)
37.	Evaluation of introgressed dual (salinity and submergence) tolerant rice lines through marker assisted selection	<ul style="list-style-type: none"> To identify dual tolerant rice lines 	Mymensingh (HQ)
38.	On-farm and on-station yield trial with a M ₈ Kasalath mutant	<ul style="list-style-type: none"> To assess yield performance and duration over locations. Location: Mymensingh (5), Rangpur, Chapainawabgonj Magura and Ishwardi (Sub-Station), Rangpur and Magura (On-farm: 2) 	
39.	Advance yield trial with some high yielding deepwater rice mutants	<ul style="list-style-type: none"> To select high yielding mutants with deepwater character. 	Sunamganj and Gopalganj (On-farm: 2)
40.	Advance yield trial with some mutants derived from BR11	<ul style="list-style-type: none"> To select Sheath blight, BLB and Blast resistant/tolerant and higher yielding mutants 	Mymensingh (HQ) and Rangpur (Sub-station)
41.	Growing of M ₁ generations for tidal area	<ul style="list-style-type: none"> To create variability for longer seedling height, taller plants, short duration with bolder seeds and higher grain yield. 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
42.	Screening of F ₃ population of Binadhan-7 X Biroi crosses	<ul style="list-style-type: none"> To select high yielding, short duration , lodging resistant plant/progenies with biroi type grains 	Mymensingh (HQ)
43.	Advance yield trial with M ₄ mutants of heavy ion (nitrogen) beam irradiated population of NERICA-4	<ul style="list-style-type: none"> To select high temperature tolerant, short duration, high yielding mutants with non shattering grains. 	Mymensingh (HQ) Rangpur and Magura (Sub- Stations)
44.	Evaluation Jumli Marshi for cold tolerance in early Boro season	<ul style="list-style-type: none"> To develop cold tolerant variety of Boro rice for Haor areas 	Mymensingh (HQ)
45.	Evaluation of BC ₂ F ₂ population BRAUS rice variety Binadhan-14	<ul style="list-style-type: none"> To introgression non shattering grain trait for growing even under low temperature 	Mymensingh (HQ)
46.	Growing of cold treated genotypes for agronomic performance	<ul style="list-style-type: none"> To observe the performance of treated rice genotypes 	Mymensingh (HQ)
47.	Growing of F ₁ generation of Binadhan-17 X Chandanath-3 cross	<ul style="list-style-type: none"> To confirm the F₁ 	Mymensingh (HQ)
48.	Growing of BC ₁ F ₁ generation of Manjushree-2 X Binadhan-17 cross	<ul style="list-style-type: none"> To confirm BC₁F₁ 	Mymensingh (HQ)
49.	Growing of BC ₁ F ₁ generation of Komol-7 X Binadhan-17 cross	<ul style="list-style-type: none"> To confirm BC₁F₁ 	Mymensingh (HQ)
50.	Growing of BC ₁ F ₁ generation of Komol-9 X Binadhan-17 cross	<ul style="list-style-type: none"> To confirm BC₁F₁ 	Mymensingh (HQ)
51.	Growing of M ₁ generation of rice for salinity submergence and drought responses	<ul style="list-style-type: none"> To identify salinity and drought response rice mutant suitable for saline and drought prone areas 	Mymensingh (HQ)
52.	Growing of BC ₁ F ₃ generation of Luxmi digha X Binadhan-18 cross	<ul style="list-style-type: none"> To evaluate for short duration and higher yield characters in Laksmi digha for growing in Boro season 	Mymensingh (HQ)
53.	Evaluation of M ₃ and M ₄ populations of NERICA-1, NERICA-4 and NERICA-10 irradiated with nitrogen ion beams	<ul style="list-style-type: none"> To select plants/progenies with vigorous early growth, higher yield, shorter duration and drought tolerance. 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
54.	Growing of BC ₁ F ₂ generation of Kasalath X Binadhan-18 cross	<ul style="list-style-type: none"> To evaluate short duration and easy threshing characters in Kasalath mutant 	Mymensingh (HQ)
Wheat			
55.	Improvement of Binagom-1 through hybridization	<ul style="list-style-type: none"> To introgress short duration, heat tolerance, lodging resistance traits in Binagom-1 	Mymensingh (HQ)
Rapeseed-Mustard			
56.	On-station and on-farm yield trial with eight M ₈ rapeseed (<i>B. rapa</i> var. yellow sarson) mutants	<ul style="list-style-type: none"> To assess overall performance of the mutants for earliness and seed yield potential Location: Mymensingh (HQ) and Nalitabari, Ishurdi, Chapainowabgonj, Rangpur and Magura (Sub-Stations) Mymensingh, Jamalpur, Rangpur, Nalitabari, Manikganj, Tangail and Magura (On-Farm)	
57.	On-station and on-farm yield trial with one advanced M ₈ rapeseed (<i>B. napus</i>) mutant	<ul style="list-style-type: none"> To assess overall performance of the mutant for seed yield and reaction to <i>Alternaria</i> blight disease Location: Mymensingh (HQ) and Rangpur, Gopalganj and Magura (Sub –Stations), Mymensingh, Ishurdi, Magura, Manikganj and Tangail (On-Farm)	
58.	Preliminary yield trial with M ₅ rapeseed (<i>B. napus</i>) mutants	<ul style="list-style-type: none"> To select desirable mutants with early maturity & higher seed yield 	Mymensingh (HQ) and Magura (Sub-Station)
59.	Preliminary yield trial with F ₆ generation of rapeseed (<i>B. rapa</i>) lines	<ul style="list-style-type: none"> To select early maturing lines with desirable yield attributes 	Ishurdi, Magura and Gopalganj (Sub-Stations)
60.	Screening in M ₅ , F ₄ & F ₅ population	<ul style="list-style-type: none"> To select early maturing lines with desirable yield attributes 	Mymensingh (HQ)
61.	Screening in F ₃ , M ₃ and M ₂ generation	<ul style="list-style-type: none"> To select early maturing lines with desirable yield attributes 	Mymensingh (HQ)
62.	Growing of M ₁ generation	<ul style="list-style-type: none"> To create genetic variability regarding earliness. 	Mymensingh (HQ)
63.	Crossing Binasarisha-9 with BARI Sarisha- 14 & 17	<ul style="list-style-type: none"> To develop early maturing and high yielding rapeseed lines 	Mymensingh (HQ)
Groundnut			
64.	Advance yield trial with some M ₆ mutants of groundnut	<ul style="list-style-type: none"> To select bold seeded mutants with higher shelling percentage and early maturity 	Mymensingh (HQ) and Rangpur and Ishwardi (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
65.	Screening F2 populations for long and bigger pods with 3-4 kernels	<ul style="list-style-type: none"> To select populations with long and bigger pods with 3-4 kernels 	Mymensingh (HQ)
66.	Screening F3 populations for long and bigger pods with 3-4 kernels.	<ul style="list-style-type: none"> To select populations with long and bigger pods with 3-4 kernels 	Mymensingh (HQ)
67.	Maintenance of groundnut mutant germplasm	<ul style="list-style-type: none"> To maintain the mutant germplasm 	Mymensingh (HQ)
Sesame			
68.	Preliminary yield trial with promising M ₅ sesame mutants	<ul style="list-style-type: none"> To select mutants for improved yield components, higher seed yield and earliness 	Ishurdi, Magura and Chapainawabganj (Sub- Stations)
69.	Screening in M ₃ and M ₄ population of sesame	<ul style="list-style-type: none"> To select early maturing lines with desirable yield attributes 	Ishurdi and Magura (Sub-Stations)
70.	Crossing Binatil-1, Binatil-2 & 3 with BARI Til-4, China white & China black	<ul style="list-style-type: none"> To create variability for future breeding material 	Mymensingh (HQ)
71.	Growing of M ₁ generation	<ul style="list-style-type: none"> To select mutants for higher seed yield and earliness 	Mymensingh (HQ) and Magura (Sub-station)
Soybean			
72.	Preliminary yield trial with selected M ₅ soybean mutants	<ul style="list-style-type: none"> To select early maturing and high yielding mutants with short plant height 	Mymensingh (HQ), Magura and Rangpur, Noakhali, Laxmipur and Chandpur (On-Farm)
73.	Evaluation of selected soybean varieties/genotypes at different soybean growing areas	<ul style="list-style-type: none"> To assess overall performance of the varieties/genotypes in respect of earliness, seed yield and salt tolerance (in case of saline soil) 	Noakhali Sadar, Subornochar of Noakhali, Laxmipur, Chandpur and Satkhira (On –Farm)
74.	Screening salt tolerant genotypes in pot culture	<ul style="list-style-type: none"> To assess overall performance of the genotypes in respect of earliness, seed yield and salt tolerance 	Satkhira and Noakhali (On-Farm)
75.	Screening in M ₄ & M ₃ population	<ul style="list-style-type: none"> To select desirable mutants in respect of maturity periods and salt tolerance 	Ishurdi and Magura (Sub-Stations)
76.	Screening M ₂ population	<ul style="list-style-type: none"> To select desirable mutants in respect of yield and maturity periods 	Mymensingh (HQ) M ₃ seeds from individual plant have been collected to grow M ₃ population.

Sl. No.	Research Title	Objective (s)	Location (s)
7. 77.	Growing of M ₁ generation	<ul style="list-style-type: none"> To create variability for selection of desirable mutants in respect of earliness. 	Mymensingh (HQ)
8. 78.	Crossing among BU Soybean-1, Binasoybean-2 & 3 and GC-840	<ul style="list-style-type: none"> To develop early maturing and high yielding soybean lines 	Mymensingh (HQ)
Sunflower			
79.	Collection and Evaluation of local/exotic sunflower cultivars	<ul style="list-style-type: none"> To assess yield potential and other morpho -physiological attributes 	Mymensingh (HQ)
80.	Growing and screening of M ₂ populations of sunflowers	<ul style="list-style-type: none"> To select early maturing and high yielding sunflower lines 	Mymensingh (HQ)
Mungbean			
81.	Regional yield trial of some promising summer mungbean mutants	<ul style="list-style-type: none"> To select desirable mutants and assess overall performance of the mutants for earliness, disease tolerance and seed yield 	Ishurdi and Magura (On Station) and Ishurdi and Natore (On -Farm)
82.	Evaluation of summer mungbean lines for synchronous pod maturity with yield	<ul style="list-style-type: none"> To confirm the synchronous pod maturity with yield 	Ishurdi and Magura (On Station) and Ishurdi and Natore(On -Farm)
83.	Screening of M ₄ population of mungbean	<ul style="list-style-type: none"> To select desirable mutants for earliness, higher seed yield and disease tolerance 	Ishurdi and Magura (Sub-Stations)
84.	Screening of M ₂ population of salt tolerant mungbean lines in hydroponic culture	<ul style="list-style-type: none"> To identify salt tolerant mungbean lines 	Mymensingh (HQ) Glasshouse
85.	Growing of M ₂ generation of mungbean for synchronous pod maturity	<ul style="list-style-type: none"> To select desirable mutants 	Ishurdi (Sub -station)
86.	Growing of M ₃ generation of mungbean	<ul style="list-style-type: none"> To select desirable mutants for earliness, higher seed yield and disease tolerance 	Ishurdi (Sub -station)
Chickpea			
87.	Preliminary yield trial of four chickpea mutants	<ul style="list-style-type: none"> To select bold seeded, disease tolerant and high yielding mutants 	Chapainwabgonj and Magura (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
88.	Screening of M ₃ population of chickpea	<ul style="list-style-type: none"> To select desirable mutants for bolder seed size, higher seed yield and disease tolerance 	Magura and Ishurdi (Sub-Station)
89.	Screening of M ₂ population of chickpea	<ul style="list-style-type: none"> To select desirable mutants for bolder seed size, higher seed yield and disease tolerance 	Magura and Ishurdi (Sub-Station)
90.	Growing of M ₁ generation of Chickpea	<ul style="list-style-type: none"> To create variability for selection of desirable mutants 	Magura and Ishurdi (Sub-stations)
91.	Preliminary yield trial of four chickpea mutants	<ul style="list-style-type: none"> To select bold seeded, disease tolerant and high yielding mutants 	Chapainwabgonj and Magura (Sub-stations)
92.	Screening of M ₃ population of chickpea	<ul style="list-style-type: none"> To select desirable mutants for bolder seed size, higher seed yield and disease tolerance 	Magura and Ishurdi (Sub-stations)
93.	Screening of M ₂ population of chickpea	<ul style="list-style-type: none"> To select desirable mutants for bolder seed size, higher seed yield and disease tolerance 	Magura and Ishurdi (Sub-stations)
94.	Growing of M ₁ generation of Chickpea	<ul style="list-style-type: none"> To create variability for selection of desirable mutants 	Magura and Ishurdi (Sub-stations)
Lentil			
95.	On-farm and on-station yield trial with three mutants/line	<ul style="list-style-type: none"> To assess overall performance of the mutants in respect of earliness, higher seed yield and disease tolerance <p>Location: Magura, chapainawbabganj, (Sub-stations), Natore, Magura and Chapainawbabganj (On –Farm)</p>	
96.	Advanced yield trial of three promising mutants of lentil	<ul style="list-style-type: none"> To select desirable mutants and assess overall performance of the mutants regarding earliness and seed yield 	Ishurdi and Chapainawabgonj (Sub-sStations)
97.	Preliminary yield trial with some selected mutants of lentil	<ul style="list-style-type: none"> To assess the yield potential of the accessions 	Magura (Sub-Stations)
98.	Effect of DAP and Boron spraying on lentil yield	<ul style="list-style-type: none"> To assess the effect of DAP and Boron on yield of lentil 	Mymensingh (HQ)
99.	Screening of M ₄ population of lentil	<ul style="list-style-type: none"> To select desirable mutants for earliness, higher seed yield and disease tolerance 	Mymensingh (HQ)
Grasspea			
100.	Regional yield trial of some promising mutant lines of grasspea	<ul style="list-style-type: none"> To assess the yield potential of the accessions 	Chapainwabgonj , Ishurdi, Magura (Sub-Stations) and Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
101.	Growing of M ₄ population of grasspea	<ul style="list-style-type: none"> To select desirable mutants for earliness and higher seed yield. 	Mymensingh (HQ)
102.	Growing of M ₃ generation of grasspea Growing of M ₃ generation of grasspea	<ul style="list-style-type: none"> To create variability for earliness and higher yield To create variability for earliness and higher yield 	Mymensingh(HQ)
Blackgram			
103.	On-station and on-farm yield trial with two mutants of blackgram	<ul style="list-style-type: none"> To assess the yield potential of the lines on farmer's field condition 	Mymensingh (HQ) Magura (Sub-Station) and Magura (On –Farm)
104.	Preliminary yield trial with ten promising mutants of blackgram	<ul style="list-style-type: none"> To select desirable mutants and assess overall performance of the mutants regarding earliness and seed yield 	Magura (Sub –Station)
105.	Screening of M ₅ population of blackgram	<ul style="list-style-type: none"> To select desirable mutants for earliness, higher seed yield and disease tolerance 	Mymensingh (HQ)
106	Growing of M ₄ population of blackgram	<ul style="list-style-type: none"> To select desirable mutants for earliness, higher seed yield and disease tolerance 	Mymensingh (HQ)
Pigeon Pea			
107.	Germplasm collection and evaluation of pigeon pea	<ul style="list-style-type: none"> To assess yield potential and other morpho-physiological attributes 	Mymensingh (HQ)
108.	Growing of M ₁ generation of pigeon pea	<ul style="list-style-type: none"> To assess yield potential and other morpho-physiological attributes 	Mymensingh (HQ)
Graden Pea			
109.	Germplasm collection and evaluation of garden pea	<ul style="list-style-type: none"> To assess yield potential and other morpho-physiological attributes 	Mymensingh (HQ)
110.	Growing of M ₂ generation of garden pea	<ul style="list-style-type: none"> To create variability for further selection 	Mymensingh (HQ)
111.	Growing of M ₁ generation of garden pea	<ul style="list-style-type: none"> To create variability for further selection 	Mymensingh (HQ)
Jute			
112.	Advanced yield trial with some M ₅ mutants of gamma irradiated JRO-524	<ul style="list-style-type: none"> To assess fiber maturity fiber and stick yield over locations 	Mymensingh (HQ) Magura and Rangpur (Sub-Stations) Magura and Rangpur (On-farm)

Sl. No.	Research Title	Objective (s)	Location (s)
113.	Growing of M1 generation of BJRI TOSA PAT-8 (RABI-1)	<ul style="list-style-type: none"> To create variability for fiber and stick yield, maturity period and fiber quality parameter 	BINA HQs. Farm, Mymensingh
Plant Genetic Resources(PGR)			
114.	Growing of rice landraces/exotic germplasm for seed multiplication	<ul style="list-style-type: none"> Multiplication of collected PGR materials (rice) 	Mymensingh (HQ)
115.	Collection and Growing of rice landraces for seed multiplication (NATP phase-2)	<ul style="list-style-type: none"> Preservation and Multiplication of collected PGR materials (rice) 	Mymensingh (HQ)
116.	Morpho-molecular characterization of some selected germplasm (NATP phase-2)	<ul style="list-style-type: none"> To characterize the selected germplasm 	Mymensingh (HQ)
CROP PHYSIOLOGY DIVISION			
117	Temperature tolerance of rice varieties at reproductive stage	<ul style="list-style-type: none"> To assess the effect of high temperature at reproductive stage and To identify temperature stress tolerant rice variety 	Mymensingh (HQ)
118	Growth and yield of rice genotypes under water stress	<ul style="list-style-type: none"> To assess the effect of water stress at reproductive stage To identify water stress tolerant rice genotype 	Mymensingh (HQ)
119	Morpho-physiological evaluation of some rice genotypes	<ul style="list-style-type: none"> To assess the yield potential of the rice genotypes 	Mymensingh (HQ)
120	Study of flowering pattern in lentil genotypes	<ul style="list-style-type: none"> To assess the flowering pattern and its relationship with seed yield of lentil genotypes 	Mymensingh (HQ)
121	Effect of chitosan on growth and yield of winter tomato in field condition	<ul style="list-style-type: none"> To investigate the effect of foliar application of chitosan on growth and yield of tomato 	Mymensingh (HQ)
122	Effect of chitosan on yield and yield attributes of summer tomato grown in pots	<ul style="list-style-type: none"> To investigate the effect of foliar application of chitosan on growth and yield of tomato 	Mymensingh (HQ)
123	Effect of chitosan on yield and yield attributes of summer mungbean grown in pots	<ul style="list-style-type: none"> To investigate the effect of foliar application of chitosan on growth and yield of mungbean 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
124	Effect of chitosan on yield and yield attributes of summer mungbean in field condition	<ul style="list-style-type: none"> • i) to investigate the effect of foliar application of chitosan on growth and yield of mungbean 	Mymensingh (HQ)
125	Physiological evaluation of lentil mutants/varieties	<ul style="list-style-type: none"> • To assess the physiological potentiality compared to the released varieties of lentil 	BINA (Sub-Stations) and Ishurdi and Magura (On-farm)
126	Physiological evaluation of mungbean mutants/varieties	<ul style="list-style-type: none"> • To assess the physiological potentiality compared to the released varieties of mungbean. 	BINA (Sub-stations) and Ishurdi and Magura (On-farm)
127	Screening of sesame mutants in respect of morphological attributes and yield	<ul style="list-style-type: none"> • To screen sesame mutants on the basis of morpho-physiological attributes and yield 	Magura (Sub -Station)
128	Physico-chemical properties of rice genotypes	<ul style="list-style-type: none"> • To know physico-chemical properties and to identify superior rice genotypes 	Mymensingh (HQ)
SOIL SCIENCE DIVISION			
129	Determination of critical limit of phosphorus for mustard	<ul style="list-style-type: none"> • To determine the of critical limit of phosphorus for mustard 	Mymensingh (HQ)
130	Determination of critical limit of magnesium for mustard	<ul style="list-style-type: none"> • To determine the of critical limit of magnesium for mustard 	Mymensingh (HQ)
131	Determination of critical limit of phosphorus for rabi maize	<ul style="list-style-type: none"> • To determine the of critical limit of phosphorus rabi maize 	Mymensingh (HQ)
132	Determination of critical limit of magnesium for rabi maize	<ul style="list-style-type: none"> • To determine the of critical limit of magnesium for rabi maize 	Mymensingh (HQ)
133	Determination of critical limit of phosphorus for kharif maize	<ul style="list-style-type: none"> • To determine the of critical limit of phosphorus for kharif maize 	Mymensingh (HQ)
134	Determination of critical limit of magnesium for kharif maize	<ul style="list-style-type: none"> • To determine the of critical limit of magnesium for kharif maize 	Mymensingh (HQ)
135	Benchmark survey to characterize bio-physicochemical properties of soil in the selected study areas	<ul style="list-style-type: none"> • Characterize the bio-chemical properties of soils of the climate vulnerable areas of Nachole, ChapaiNawabganj 	Nachole and ChapaiNawabganj
136	Improvement of soil health in unfavorable	<ul style="list-style-type: none"> • Evaluate the effect of organic materials for amending drought prone area of 	Nachole and Chapainawabganj

Sl. No.	Research Title	Objective (s)	Location (s)
	eco-systems with organic amendments for sustainable crop production	Nachole, Chapai Nawabganj	
137	Development of phospho-vermicompost using different combination of organic residues with rock phosphate	<ul style="list-style-type: none"> To develop phospho-vermicompost for crop production. 	Mymensingh (HQ)
138	Reduction of chemical fertilizer in crop production using different vermicompost	<ul style="list-style-type: none"> To reduce the chemical fertilizer for T. aman – Boro rice cropping pattern. 	Mymensingh (HQ)
139	Effects of various fertilizer doses on mustard under zero tillage system after harvesting of T. aman rice	<ul style="list-style-type: none"> To see the effect of various fertilizer doses on mustard under zero tillage condition. 	Ishurdi, Pabna (Sub-Station)
140	Delineation of nutrients status in the Tista Meander Floodplain soils	<ul style="list-style-type: none"> To observe the nutrient status of soil of Tista meander floodplain for 	Rangpur
141	Effects of rhizobia inoculation nitrogen and molybdenum on growth, nodulation and yield of soybean	<ul style="list-style-type: none"> To see the effect of rhizobium biofertilizer, nitrogen and molybdenum on nodulation and yield of soybean 	Mymensingh (HQ)
142	Effects of rhizobia inoculation nitrogen and molybdenum on growth, nodulation and yield of lentil	<ul style="list-style-type: none"> To observe the influence of biofertilizer, nitrogen and molybdenum on nodulation and yield of lentil 	Mymensingh (HQ)
143	Biofertilizer production and distribution	<ul style="list-style-type: none"> To serve farmers and other users with quality biofertilizer for pulse and oil seed production 	Mymensingh (HQ)
ENTOMOLOGY DIVISION			
144	Effectiveness of different management approaches against stem borer of rice	<ul style="list-style-type: none"> To develop suitable insect management technology against stem borer of rice 	Mymensingh (HQ)
145	Effectiveness of different management approaches against leaf roller of rice	<ul style="list-style-type: none"> To develop suitable insect management technology against leaf roller of rice 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
146	Development of management approaches against fall armyworm (<i>Spodoptera frugiperda</i>) of maize	<ul style="list-style-type: none"> To develop suitable insect management technology against fall armyworm of maize 	Mymensingh (HQ)
147	Development of management approaches against hairy caterpillar of summer mungbean	<ul style="list-style-type: none"> To develop environment friendly integrated management approach against caterpillar of summer mungbean 	Mymensingh (HQ)
148	Comparative evaluation of different IPM treatments against leaf roller of soybean	<ul style="list-style-type: none"> To develop suitable insect management technology against leaf roller of soybean 	Mymensingh (HQ)
149	Development of integrated management approaches for the control of jassid of okra	<ul style="list-style-type: none"> To develop environment friendly integrated management approaches against Jassid of Okra 	Mymensingh (HQ)
150	Development of integrated management approaches for the control of thrips of garlic	<ul style="list-style-type: none"> To develop suitable insect management technology against thrips of garlic 	Mymensingh (HQ)
151	Development of management approaches against red mites of chilli	<ul style="list-style-type: none"> To develop environment friendly integrated management approaches against red mites of chilli 	Mymensingh (HQ) and Rangpur (Sub-station)
152	Effectiveness of different management approaches against pod borer of chickpea	<ul style="list-style-type: none"> To develop suitable insect management technology against pod borer of chickpea 	Magura (Sub – Station)
153	Screening cold tolerant and other advanced rice lines against brown plant hopper under artificial infested condition	<ul style="list-style-type: none"> To find out the brown plant hopper resistant cultivar 	Mymensingh (HQ)
PLANT PATHOLOGY DIVISION			
154	Evaluation of advanced mutants of rice against BLB, sheath blight, blast, false smut and tungro	<ul style="list-style-type: none"> To evaluate the level of field resistance/tolerance of advanced mutants/lines of rice against the diseases under inoculated/natural condition 	Mymensingh (HQ)
155	Evaluation of wheat mutants (M ₃) to identify the source of resistant against wheat blast	<ul style="list-style-type: none"> To grow and identify wheat mutants resistant to blast 	Mymensingh (HQ) Meherpur and Ishurdi
156	Evaluation of mustard-rapeseed mutants against alternaria blight and white rot	<ul style="list-style-type: none"> To identify the sources of resistance to alternaria blight and white rot in induced mutants of mustard 	Mymensingh (HQ) and Rangpur (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
157	Evaluation of groundnut mutants against tikka, collar rot and rust	<ul style="list-style-type: none"> To identify the sources of resistance in induced mutants/varieties of groundnut against the diseases 	Mymensingh (HQ) Ishurdi, Sunamgonj and Jhenaidah (Sub-Stations)
158	Evaluation of sesame mutants against foot rot, stem rot, yellow mosaic and phyllody disease	<ul style="list-style-type: none"> To identify the sources of resistance in induced mutants of sesame against foot rot, stem rot, yellow mosaic and phyllody disease 	Mymensingh (HQ) Ishurdi and Magura (Sub-Stations)
159	Evaluation of soybean mutants against collar rot, cercospora leaf spot and yellow mosaic	<ul style="list-style-type: none"> To evaluate the level of field resistance of soybean mutants against collar rot, cercospora leaf spot and yellow mosaic 	Mymensingh (HQ) and Noakhali (Sub-Station)
160	Evaluation of mungbean mutants against root rot, cercospora leaf spot and yellow mosaic	<ul style="list-style-type: none"> To identify the sources of resistance in induced mutants of mungbean to the diseases under inoculated condition. 	Mymensingh (HQ) Ishurdi and Magura (Sub-Station)
161	Evaluation of lentil mutants against foot and root rot and stemphylium blight	<ul style="list-style-type: none"> To identify the sources of resistance in induced mutants of lentil to foot and root rot and stemphylium blight under inoculated condition. 	Magura and Chapai Nawabganj (Sub-Station)
162	Evaluation of chickpea mutants against botrytis gray mold and foot and root rot	<ul style="list-style-type: none"> To identify the sources of resistance in induced mutants of chickpea against botrytis gray mold and foot and root rot under inoculated conditions 	Ishurdi and Chapai Nawabganj (Sub-Station)
163	Evaluation of blackgram mutants against cercospora leaf spot, yellow mosaic and powdery mildew	<ul style="list-style-type: none"> To identify the sources of resistance in mutants of blackgram to cercospora leaf spot, yellow mosaic and powdery mildew. 	Mymensingh (HQ) and Chapai Nawabganj (Sub-Station)
164	Study on seed borne status of mungbean yellow mosaic virus	<ul style="list-style-type: none"> To observe mode of transmission of yellow mosaic virus of mungbean 	Mymensingh (HQ)
165	Management of wheat blast using fungicides, inducer and botanicals	<ul style="list-style-type: none"> To reduce disease prevalence of wheat blast 	Mymensingh (HQ) and Meherpur
166	Comparison of vermi-compost, bio-fertilizer, bio-pesticides and their integration against root rot of lentil and chickpea	<ul style="list-style-type: none"> To develop suitable disease management technology for controlling root rot of lentil and chickpea 	Mymensingh (HQ)
167	Effect of salicylic acid, silica, sulfur and chitosan for controlling white rot of mustard	<ul style="list-style-type: none"> To develop suitable disease management technology for controlling white rot of mustard 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
168	Study on seed borne status of yellow mosaic virus of blackgram	<ul style="list-style-type: none"> To observe mode of transmission of yellow mosaic virus in blackgram 	Mymensingh (HQ)
169	Management of damping-off disease of onion seedling	<ul style="list-style-type: none"> To develop suitable disease management technology for onion seedling 	Mymensingh (HQ)
170	Status of seed borne fungi in BINA developed pulse and oil crop varieties	<ul style="list-style-type: none"> To know the status seed borne fungal pathogens in BINA developed pulse and oil crop varieties 	Mymensingh (HQ)
171	Integrated management of foot and root rot of groundnut	<ul style="list-style-type: none"> To develop effective management technology for foot and root rot of groundnut 	Mymensingh (HQ) and Magura (Sub-Station)
172	Integrated management of yellow mosaic of mungbean	<ul style="list-style-type: none"> To develop effective yellow mosaic management technology for controlling yellow mosaic of mungbean 	Mymensingh (HQ) Ishurdi and Barisal (Sub-Station)
173	Study on seed borne status of mungbean yellow mosaic virus	<ul style="list-style-type: none"> To observe mode of transmission of yellow mosaic virus in mungbean 	Mymensingh (HQ)
174	Ecofriendly management of collar rot (<i>Sclerotium rolfsii</i>) of soybean	<ul style="list-style-type: none"> To develop ecofriendly disease management technology for collar root rot of soybean 	Mymensingh (HQ)
175	Evaluation of different fungicides against blast of rice	<ul style="list-style-type: none"> To find out effective fungicide/fungicides against blast of rice 	Jalalpur and Nalitabari (Sub-Station)
176	Evaluation of different fungicides against false smut of rice	<ul style="list-style-type: none"> To find out effective fungicide(s) against false smut of rice 	Chapai Nawabgonj and Ishurdi (Sub-Station)
177	Ecofriendly management of foot and root rot (<i>Sclerotium rolfsii</i>) of blackgram	<ul style="list-style-type: none"> To develop suitable disease management technology for controlling root rot of blackgram 	Mymensingh (HQ) Ishurdi (Sub-Station)
178	Study on seed borne status of leaf curl virus of tomato	<ul style="list-style-type: none"> Virus infected seeds and virus free seeds 	Mymensingh (HQ)
179.	Management of <i>Ralstonia solanasiarum</i> in potato with bio control agents	<ul style="list-style-type: none"> To develop suitable disease management technology for controlling <i>Ralstonia solanasiarum</i> in potato 	Mymensingh (HQ) Plant Pathology Lab.
180	Development of wheat mutants (M_1) against blast resistance	<ul style="list-style-type: none"> To induce blast resistance in wheat 	Mymensingh (HQ)
181	Development of okra mutants (M_1) against yellow mosaic resistance	<ul style="list-style-type: none"> To induce yellow mosaic resistance in okra 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
182	Development of chili mutants (M ₁) against leaf curl resistance	<ul style="list-style-type: none"> To induce leaf curl resistance in chili 	Mymensingh (HQ)
183	Molecular study of different isolates of <i>Pyricularia oryzae</i> triticum pathotype	<ul style="list-style-type: none"> To identify virulent isolates of <i>P. oryzae</i> triticum pathotype 	Mymensingh (HQ) Plant Pathology and Biotechnology Laboratory
184	Molecular study of different isolates of <i>P. oryzae</i> of rice	<ul style="list-style-type: none"> To identify virulent isolates of <i>P. oryzae</i> 	Mymensingh (HQ) Plant Pathology and Biotechnology Laboratory
185	Molecular analysis of wheat varieties/lines in order to identify the source of resistant against wheat blast	<ul style="list-style-type: none"> To identify the resistant source of wheat blast 	Mymensingh (HQ) and Magura (Sub- Station)
186	Isolation of endophytic bacteria from rice and evaluation of their antagonistic activity against some plant pathogens	<ul style="list-style-type: none"> To isolate bio functional endophytic bacteria from rice ii) To screen bacterial isolates against some plant pathogens 	Mymensingh (HQ)
AGRONOMY DIVISION			
187	Study of Aus rice mutants/variety on transplanting time, spacing and seedling age in different agro-ecological zones	<ul style="list-style-type: none"> To find out optimum transplanting time, spacing, seedling age for maximizing yield of Aus rice 	Cumilla, Jamalpur and Sunamgonj (Sub-Stations)
188	Determination of optimum sowing time and seed rate for zoom cultivation (Aus) in Hill Tracts	<ul style="list-style-type: none"> To find out optimum sowing time, seed rate for maximizing yield in zoom cultivation (Aus rice) in Hill Tracts 	Khagrachari and Rangamati (Sub-Stations)
189	Study of Aman rice mutant/variety on transplanting time, seedling age in different agro-ecological zones	<ul style="list-style-type: none"> To find out optimum transplanting time, seedling age for maximizing yield of Aman rice 	Rangpur Nalitabar Gopalganj, and Khagrachari (Sub-Station)
190	Effect of seed rate on grain yield of deep-water rice mutants under broadcast condition in different agro-ecological zones of Bangladesh	<ul style="list-style-type: none"> To find out optimum seed rate/ plant m² for maximizing yield of deep-water rice mutants 	Gopalganj (On –Station) and Singra, Natore (On –Station)

Sl. No.	Research Title	Objective (s)	Location (s)
191	Effect of plant spacing on grain yield of deep-water Aman rice mutants in different agro-ecological zones of Bangladesh	<ul style="list-style-type: none"> To find out optimum spacing for maximizing yield of deep-water rice mutants 	Gopalganj (On –Station) and Singra, Natore (On –Station)
192	Study of Boro rice mutant/variety on transplanting time, spacing and seedling age in different agro-ecological Zones.	<ul style="list-style-type: none"> To find out optimum transplanting time, spacing, seedling age for maximizing yield of boro rice mutants 	Rangpur Ishurdi and Nalitabari (Sub-Station)
193	Study on seed rate of lentil mutants on yield and yield potentials at different AEZ of Bangladesh	<ul style="list-style-type: none"> To find out optimum seed rate for maximizing yield of lentil 	Magura and Chapai Nawabganj (Sub-Station)
194	Development of cropping patterns using BINA released varieties in drought prone zones	<ul style="list-style-type: none"> To study the economy of water use efficiency, land use potentials with BINA released varieties and modified cropping pattern. 	Godagari, Rajshahi Nachole, Chapainawabganj (On-Farm)
195	Development of onion/garlic-based cropping pattern for 400% cropping intensity at different AEZ	<ul style="list-style-type: none"> To study the economic and increase the land use potentials with BINA released varieties and modified the cropping pattern. 	Rangpur Sathia (Pabna) Bagura, Singra (Natore) (On –Farm)
196	Development of cropping pattern with improved technologies in Charland ecosystem	<ul style="list-style-type: none"> To increase cropping intensity, soil health and farmer’s income 	Kurigram, Rangpur and Nilphamari
197	Development of cropping pattern with Slopping Agricultural Land Technology (SALT) in Hill Tracts	<ul style="list-style-type: none"> To increase cropping intensity, soil health and farmer’s income 	Khagrachari/ Rangamati
198	Improving yield of Boro rice (Binadhan-10) by applying tillage operation and application of gypsum, salicylic acid and farm yard manure in saline prone zones	<ul style="list-style-type: none"> To find out the suitable tillage, gypsum, salicylic acid and farm yard manure dose 	Shyamnagor, Satkhira
199	Effect of zero/minimum tillage and fertilizer dose on mustard yield in different AEZ of Bangladesh	<ul style="list-style-type: none"> To study the economic and increase the land use potentials with agronomic management of BINA mustard varieties with zero/minimum tillage 	Satkhira Gopalganj Cumilla Tangail Manikganj and Sirajganj

Sl. No.	Research Title	Objective (s)	Location (s)
200	Effect of relay cropping and fertilizer dose on wheat (Binagom-1) yield in different AEZ of Bangladesh	<ul style="list-style-type: none"> To study the economic and increase the land use potentials with agronomic management of BINA wheat varieties with relay cropping 	Satkhira Borguna Borishal Gopalganj and Bagerhat
201	Study of late sowing on yield and yield contributing characters of mustard varieties	<ul style="list-style-type: none"> To find out suitable mustard varieties at delay sowing in respect of yield 	Mymensingh (HQ) Magura and Rangpur (Sub-Station)
202	Evaluation of field performance of primed nursery rice seedlings for their growth and yield performance under cold stress	<ul style="list-style-type: none"> To find out the most suitable seed priming technique for combating cold stress. 	Rangpur (on-Station and On farm)
203	Evaluation of field performance of primed nursery rice seedlings for growth and yield performance under salinity stress	<ul style="list-style-type: none"> To find out the most suitable seed priming technique for combating salinity stress 	Satkhira (On-Farm and On-Station)
204	Determination of efficiency and residual effect of different herbicide on rice	<ul style="list-style-type: none"> To select suitable herbicides for Boro /Aus and also identify residues in soils and plants 	Mymensingh (HQ)
205	Study on management of different herbicide for lentil, mungbean and chickpea	<ul style="list-style-type: none"> To select suitable herbicides for lentil, mungbean and chickpea 	Ishurdi / Chapainawabgonj Magura (Sub-Station)
206	Study on management of different herbicide for Jute	<ul style="list-style-type: none"> To select suitable herbicide for jute 	Gopalganj (Sub-Station)
207	Measuring and quantifying greenhouse gas emission and carbon sequestration from agricultural activities in different ago-ecosystem	<ul style="list-style-type: none"> To find out the status of emissions of greenhouse gases from agricultural activities 	Mymensingh (HQ) and Rangpur (Sub-Station)
208	Truthfully labeled seed production and distribution of released crop varieties of BINA	<ul style="list-style-type: none"> To supply seeds for demonstration trials DAE, ARED, BINA village program, GOs and NGOs, farmers and other research purposes and to meet special requirement for environmental calamities <p>Location: Mymensingh (HQ) and Rangpur, Magura, Ishurdi, Cumilla, Borishal, Satkhira, Gopalganj, Nalitabari, Jamalpur, Khagrachari, Chapainawabganj, Noakhali, and Sunamganj (Sub-Stations).</p>	

Sl. No.	Research Title	Objective (s)	Location (s)
AGRICULTURAL ENGINEERING DIVISION			
209	Effect of different tillage practices and irrigation management on Mungbean production under conservation agriculture practice (Magura)	<ul style="list-style-type: none"> To develop appropriate irrigation management strategy and irrigation application rate for conservation and conventional tillage practices on mungbean production. 	Magura (Sub-Station and On-Farm)
210	Response of sesame cultivars to different drainage provisions	<ul style="list-style-type: none"> To study the effect of different drainage spacing on sesame yield 	Mymensingh (HQ) Magura, Ishwardi (Sub-Station) and Khustia, (On-Farm)
211	Evaluation of Binadhan-22 under different soil moisture stress (in Lysimeter and Field)	<ul style="list-style-type: none"> To study the response of rice mutants to different level of soil moisture stress 	Mymensingh (HQ)
212	Automatic Irrigation Management System (Sensor based water-level scale) for rice cultivation	<ul style="list-style-type: none"> To assess water savings under automated irrigation system compared to normal practice To evaluate performance of automatic irrigation management system for rice production. 	Mymensingh (HQ)
213	Performance evaluation of some rice mutants (M5) for different soil moisture stress (<i>IAEA project, in collaboration with PBD</i>)	<ul style="list-style-type: none"> To study the response of rice mutants to different level of soil moisture stress 	Mymensingh (HQ) (Tray/ Mini Lysimeter, PBD field)
214	Response of rapeseed mutants to irrigation regimes (Ishwardi)	<ul style="list-style-type: none"> To determine optimum irrigation requirement for higher yield of Rapeseed 	Ishurdi (Sub-Station)
215	Effect of different tillage practices and irrigation management on Mungbean production under conservation agriculture practice (Magura)	<ul style="list-style-type: none"> To develop appropriate irrigation management strategy and irrigation application rate for conservation and conventional tillage practices on mungbean production. 	Magura (Sub- Station and On-Farm))
216	Performance evaluation of M ₅ and M ₆ population of sesame under natural rainfall condition	<ul style="list-style-type: none"> To observe the performance of different populations under normal condition and the performance under different water-logging treatments 	Mymensingh (HQ)(Lysimeter and Field)
217	Response of sesame mutants to water-logging at different growth stages (Lysimeter study)	<ul style="list-style-type: none"> To study the effect of water-logging at different growth stages on sesame yield 	Mymensingh (HQ) (Lysimeter and Field)

Sl. No.	Research Title	Objective (s)	Location (s)
218	Monitoring groundwater table fluctuation at BINA HQ and its substations (for long-term sustainability study)	<ul style="list-style-type: none"> To gather long-term Water table data To observe seasonal and long-term trend for its sustainability 	Mymensingh (HQ) and Sub-Stations
219	Irrigation management and chemical amendment for soybean cultivars under saline condition (Noakhali)	<ul style="list-style-type: none"> To identify critical stage of soybean with respect to salinity To develop appropriate irrigation management practice for higher yield of soybean 	Noakhali (On-Farm)
220	Determination of aquifer hydraulic properties	<ul style="list-style-type: none"> To generate information for safe groundwater withdrawal rate 	Nachol Chapai Nawabgonj and Niamotpur (Naogaon)
221	Groundwater dynamics study for the Barind area	<ul style="list-style-type: none"> To determine long-term trend of WT for sustainable management 	Nachol and Chapai Nawabgonj
222	Estimation of groundwater recharge (by tracer technique and water-balance method)	<ul style="list-style-type: none"> To quantify natural groundwater recharge from rainfall, and suggest for safe groundwater withdrawal 	Niamotpur (Naogaon)
223	Water quality analysis for assessing irrigation and drinking suitability	<ul style="list-style-type: none"> To investigate the quality of water and make suggestion for different 	Nachol and Chapai Nawabgonj
224	Cropping pattern study for identifying water-saving pattern	<ul style="list-style-type: none"> To identifying water-saving and economic cropping pattern 	Niamotpur (Naogaon)
225	Optimization study for sustainable groundwater use using simulation model MODFLOW	<ul style="list-style-type: none"> To identifying water-saving and economic cropping pattern 	Nachol and Chapai Nawabgonj
226	Performance evaluation of Solar System Operated irrigation Pump (HQ, Mym.)	<ul style="list-style-type: none"> To evaluate performance of solar system operated pump for future recommendation 	Mymensingh (HQ)
227	Effects of Irrigation Management and amendments in Boro rice under Saline condition (Field study, Satkhira)	<ul style="list-style-type: none"> To identify appropriate irrigation and other management practices for higher yield in saline area 	Satkhira (On-Farm)
228	Field evaluation of organic amendment practices to ameliorate saline water irrigation effect for salt tolerant HYV Boro rice cultivar Binadhan-10	<ul style="list-style-type: none"> To evaluate various amendment practices to ameliorate salinity effect on salt-tolerant HYV rice cultivars 	Satkhira (Sub-station) Raised bed Lysimeter

Sl. No.	Research Title	Objective (s)	Location (s)
229	Establishment of suitable irrigation and drainage practices for optimum <i>boro</i> rice yield with saline water	<ul style="list-style-type: none"> To find out the scope of using saline water for irrigation through optimum irrigation practices To find out the suitable irrigation-drainage management practices that can reduce salinity effect for optimum yield of salt-tolerant HYV <i>boro</i> rice cultivars 	Satkhira and Subornachar, Noakhali (Sub-station) Raised bed Lysimeter
230	Carbon Isotope Discrimination for evaluating rice cultivars tolerant to saline stress at water culture and pot condition	<ul style="list-style-type: none"> To study the performance of different rice mutants / lines /germplasm grown under saline stress in pot and water culture condition To use the carbon (CID or $\Delta 13C$) isotope discrimination technique as a selection criterion for salt tolerance rice mutants/lines/germplasm 	Mymensingh (HQ) Raise-bed Lysimeter (Pot and water culture)
231	Carbon isotope discrimination as a selection tool for high yielding upland Aus rice genotypes for water limited environments	<ul style="list-style-type: none"> To study the response of rice mutants/ lines / germplasm to different level of soil moisture stress and To use the carbon (CID or $\Delta 13C$) isotope discrimination technique as a selection criterion for upland rice mutants/lines/germplasm in water limited condition 	Mymensingh (HQ) Raise-bed Lysimeter and Lysimeter yard (field)
232	Development of Efficient Irrigation Practice for BINA Developed Citrus Crop for Hilly area of Bangladesh.	<ul style="list-style-type: none"> To ensure efficient use rainwater and maximize water productivity for Binalebu-1 and To develop of efficient irrigation practice for BINA developed citrus crop 	Khagrachori (Sub-station)
233	Studies on the effect of different water conservation and management practices for Jum cultivation Aus rice production at Hilly area of Bangladesh.	<ul style="list-style-type: none"> To study the effect of different water conservation practices on water use in jum cultivation Aus rice and To develop appropriate water saving irrigation management strategy and irrigation application system for Aus rice production in Hilly area 	Khagrachori (Sub-station)
ADAPTIVE RESEARCH AND EXTENSION DIVISION			
234	Adaptive trials with T. Aman and Boro mutant (BLB introgressed) of rice	<ul style="list-style-type: none"> To assess the overall performance of T. Aman and Boro mutant line in farmers field of different areas and provide feedback information to concerned scientist about the mutant lines 	Rangpur Magura Jamalpur Mymensingh and Chapainawabganj
235	Adaptive trials with T. AmanKasalath RM-80(c)-1 mutant of rice	<ul style="list-style-type: none"> To assess the overall performance of T. Aman mutant line in farmers field of different areas and provide feedback information to concerned scientist about the mutant lines 	Cumilla Barishal Mymensingh and Magura

Sl. No.	Research Title	Objective (s)	Location (s)
236	Adaptive trials with T. Aman mutant (IZSD) of rice	<ul style="list-style-type: none"> To assess the overall performance of Aman rice mutant line in farmers field of different areas 	Magura, Cumilla Mymensingh and Barisal
237	Adaptive trials with Boro mutant (E-02 and E-03) of rice	<ul style="list-style-type: none"> To assess the overall performance of Boro rice mutant line in farmers field of different areas and provide feedback information to concerned scientist about the mutant lines 	Magura Cumilla Mymensingh Rangpur and Sunamganj
238	Adaptive trials with Boro mutant (RM (2)-40(c)-4-2-8) of rice	<ul style="list-style-type: none"> To assess the overall performance of Boro mutant line in farmers field of different areas and provide feedback information to concerned scientist about the mutant lines 	Mymensingh Magura, Cumilla Rangpur and Jamalpur
239	Adaptive trials with salt tolerant Boro mutant (SL-51 and SL-57) of rice	<ul style="list-style-type: none"> To assess the overall performance of Boro mutant line in farmers field of different areas and provide feedback information to concerned scientist about the mutant rice lines 	Bashkhali, Chattogram, Cox's Bazar Jhalokathi and Satkhira
240	Adaptive trials with NERICA Mutant of rice	<ul style="list-style-type: none"> To assess the overall performance of NERICA mutant line in farmers field of different areas and provide feedback information to concerned scientist about the mutant rice lines 	Mymensingh Chapainawabganj and Kushtia
241	Farmers observation trials with T. Aman rice	<ul style="list-style-type: none"> To demonstrate the performance of Binadhan-22 to farmers field in different areas of Bangladesh To identify suitable areas for extensive promotional work and encourage the farmers for cultivation of Binadhan-22 	Mymensing Manikganj Tangail Rangpur and Dinajpur
242	Farmers observation trials with dual tolerant (salt & submergence) T. Aman rice	<ul style="list-style-type: none"> To demonstrate the performance of Binadhan-23 to farmers field in different areas of Bangladesh, to identify suitable areas for extensive promotional work and encourage the farmers for cultivation of Binadhan-23 	Mymensingh Chattogram Cox's Bazar Potuakhali Bagerhat and Satkhira
243	Farmers observation trials with boro rice	<ul style="list-style-type: none"> To demonstrate the performance of Binadhan-24 to farmers field in different areas of Bangladesh, to identify suitable areas for extensive promotional work and encourage the farmers for cultivation of Binadhan-24 	Mymensingh Netrakona Kishoreganj Rangpur and Sunamganj
244	Farmers observation trials with newly released Aus rice	<ul style="list-style-type: none"> To demonstrate the performance of Binadhan-21 to farmers field in different areas of Bangladesh to identify suitable areas for extensive promotional work and to encourage the farmers for cultivation of Binadhan-21 	Mymensingh and Netrakona

Sl. No.	Research Title	Objective (s)	Location (s)
245	Adaptive trials with Mustard/Rape mutant (RM-03, 10, 15, 18 and MMR-21) line	<ul style="list-style-type: none"> To assess the overall performance of mustard mutant line in farmers field of different areas and to provide feedback information to concerned scientist about the mutant lines 	Tangail Sirajganj Manikganj Madaripur and Mymensingh
246	Adaptive trials with sesame mutant (SM-003 and SM-006) line	<ul style="list-style-type: none"> To assess the overall performance of mustard mutant line in farmers field of different areas and To provide feedback information to concerned scientist about the mutant lines 	Faridpur Magura and Cumilla
247	Adaptive trials with groundnut mutant (B-6/282/80 and B-6/282/64) line	<ul style="list-style-type: none"> To assess the overall performance of groundnut mutant line in farmers field of different areas and To provide feedback information to concerned scientist about the mutant lines 	Kishoreganj Jhenaidah, Lalmonirhat and Mymensingh
248	Adaptive trials with soybean mutant line	<ul style="list-style-type: none"> To demonstrate performance of Binasoybean mutant (SBM-12,15,17 and 19) in different areas of Bangladesh and To provide feedback information to concerned scientist about the mutant 	Noakhali Chandpur and Laxmipur
249	Farmers' observation trials with sesame varieties	<ul style="list-style-type: none"> To demonstrate performance of Binatil-3 and Binatil-4 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binatil-3 and Binatil-4 	Mymensingh Kushtia Manikganj Faridpur and Rajbari
250	Farmers' observation trials with salt tolerant groundnut varieties	<ul style="list-style-type: none"> To demonstrate performance of Binachinabadam-8, 9 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binachinabadam-8, 9 	Patuakhali Bhola Noakhali Feni and Laxmipur
251	Farmers' Observation trials with soybean varieties	<ul style="list-style-type: none"> To demonstrate the performance of Binasoybean-5 & 6 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binasoybean-5 & 6 	Noakhali Chandpur and Laxmipur
252	Adaptive trials with mungbean mutant line	<ul style="list-style-type: none"> To assess the overall performance of mungbean mutant line in farmers field of different areas and to provide feedback information to concerned scientist about the mutant rice lines 	Natore Dinajpur Thakurgaon Barguna Jhalokathi and Patuakhali

Sl. No.	Research Title	Objective (s)	Location (s)
253	Adaptive trials with chickpea mutant (CPM-8-300) line	<ul style="list-style-type: none"> To assess the overall performance of chickpea mutant line in farmers field of different areas and to provide feedback information to concerned scientist about the mutant rice lines 	Rajbari Naogaon and Chapainawabganj
254	Adaptive trials with chickpea mutant (CPM-8-300) line	<ul style="list-style-type: none"> To assess the overall performance of chickpea mutant line in farmers field of different areas 	Rajbari Naogaon and Chapainawabganj
255	Adaptive trials with Blackgram mutant (BM-404 & BM-108) line	<ul style="list-style-type: none"> To assess the overall performance of blackgram mutant line in farmers field of different areas and to provide feedback information to concerned scientist about the mutant rice lines 	Mymensingh Sherpur Jamalpur and Chapainawabganj
256	Adaptive trials with lentil mutant (LM-118-9 and LM-205-6) line	<ul style="list-style-type: none"> To assess the overall performance of lentil mutant line in farmers field of different areas and to provide feedback information to concerned scientist about the mutant rice lines 	Mymensingh Magura, Rajbari Faridpur Jashore and Chapainawabganj
257	Farmer's observation trials with lentil variety	<ul style="list-style-type: none"> To demonstrate performance of Binamasur-10 & 11 in different areas of Bangladesh and, To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binamasur-10 and Binamasur-11 	Mymensingh Rajbari Faridpur Jashore Jhenaidah and Chapainawabganj
258	Farmers 'observation trials with mungbean variety	<ul style="list-style-type: none"> To observe the performance of Binamoog-9 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binamoog-9 	Natore Dinajpur Thakurgaon Barguna Jhalokathi and Patuakhali
259	Farmers 'observation trials with newly released spices variety	<ul style="list-style-type: none"> To demonstrate performance of Binamorich-1 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binamorich-1 	Mymensingh Pabna Bogura and Jamalpur
260	Farmer's Observation trials with newly released spices variety	<ul style="list-style-type: none"> To demonstrate performance of Binarasun-1 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binarasun-1 	Mymensingh Natore Faridpur Rajshahi and Sirajganj
261	Farmers 'observation trials with newly released spices variety	<ul style="list-style-type: none"> To demonstrate performance of Binapij-1 & 2 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and encourage farmers for cultivation 	Mymensingh Magur, Faridpur Kushtia and Rajshahi

Sl. No.	Research Title	Objective (s)	Location (s)
262	Farmers' observation trials with newly released spices variety.	<ul style="list-style-type: none"> To demonstrate performance of Binapiaj-1 & 2 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and encourage farmers for cultivation 	Mymensingh Magura Faridpur Kushtia and Rajshahi
263	Farmer's observation trials with newly released Turmeric variety	<ul style="list-style-type: none"> To demonstrate performance of Binahalud-1 in different areas of Bangladesh and To identify the suitable areas for large scale demonstration and to encourage farmers for cultivation of Binahalud-1 	Mymensingh Khagrachori and Tangail
264	Validation and up-scaling of BINA developed popular varieties/technologies	<ul style="list-style-type: none"> To establish BINA-Technology pilot area in surrounding villages of BINA HQ for extension of BINA developed technologies to improve farmers socio-economic status by motivating adoption of BINA technologies, to include BINA technologies in the existing cropping pattern To demonstrate field performance of BINA technologies to the visitors and To extend promising mutant varieties among the farmers through seed exchange programme 	Mymensingh sadar
Promotional activities (Training, Field days etc.)			
265	Organize farmers training on BINA developed varieties / technologies	<ul style="list-style-type: none"> To improved farmers knowledge about BINA developed varieties/ technologies and to publicize BINA generated technologies to its end users 	Mymensingh Netrokona Magura Rangpur Sunamganj, Gopalganj and Sherpur
266	Organize field days on BINA developed varieties / technologies	<ul style="list-style-type: none"> To improved farmers knowledge about BINA developed varieties/ technologies and to encourage farmers to adopt BINA generated technologies through field days 	Mymensingh Netrakona, Kishoreganj Patuakhali, Borguna Bagerhata and Manikganj
267	Organize training workshop on BINA developed varieties/ technologies to DAE, BADC, Seed dealer and NGO personnel	<ul style="list-style-type: none"> To improved farmers knowledge about BINA developed varieties/ technologies and to publicize BINA generated technologies to its end users 	Mymensingh Netrokona Tangail and Manikgonj

Sl. No.	Research Title	Objective (s)	Location (s)
BIOTECHNOLOGY DIVISION			
268	Expression and detection of salinity and drought induced genes through RT-PCR (Reverse transcriptase polymerase chain reaction)	<ul style="list-style-type: none"> To identify salinity and drought induced novel genes of rice 	Mymensingh (Biotech. / Tissue culture Lab.)
269	Cloning of salinity and drought induced rice genes through Gateway technology (LR reaction and transform to <i>Agrobacterium</i> strain C5851)	<ul style="list-style-type: none"> To prepare the clones of salinity and drought induced novel genes of rice 	Mymensingh (Biotech. / Tissue culture Lab.)
270	Cloning of two salinity and drought tolerant genes <i>OsMGD</i> and <i>OsGGT</i> gene from FR13A through Gateway cloning technology	<ul style="list-style-type: none"> To prepare gene constructs of <i>OsMGD</i> and <i>OsGGT</i> genes 	Mymensingh (Biotech. / Tissue culture Lab.)
271	Transfer of <i>OsDREB</i> and <i>OsMST6</i> genes in elite rice cultivars	<ul style="list-style-type: none"> To develop salinity and drought tolerant transgenic rice lines 	Mymensingh (Biotech. / Tissue culture Lab.)
272	Transfer of <i>OsDREB</i> , <i>OsNHX1/OsNHX2</i> and <i>OsMST6</i> genes in elite tomato cultivars	<ul style="list-style-type: none"> To develop salinity and drought tolerant tomato lines 	Mymensingh (Biotech. / Tissue culture Lab.)
273	Transfer of <i>OsNHX1/OsNHX2</i> , <i>OsCAL</i> and <i>OsASR</i> genes in elite mustard cultivars	<ul style="list-style-type: none"> To develop salinity tolerant mustard lines 	Mymensingh (Biotech. / Tissue culture Lab.)
274	Effect of 2, 4-D and gelling agent on <i>indica</i> rice (<i>Oryza sativa</i>) for embryonic calli development and subsequent plant regeneration	<ul style="list-style-type: none"> To determine the effect of different concentrations of 2,4-D and phytagel of embryogenic rice calli and regeneration 	Mymensingh (Biotech. / Tissue culture Lab.)
275	Transfer of salinity and drought tolerant genes into rice through <i>Agrobacterium</i> mediated gene transformation	<ul style="list-style-type: none"> To develop salinity and drought tolerant transgenic tomato lines 	Mymensingh (Biotech. / Tissue culture Lab.)

Sl. No.	Research Title	Objective (s)	Location (s)
276	Transfer of <i>OsASR</i> and <i>OsNHX1/OsNHX2</i> genes in elite tomato cultivars	<ul style="list-style-type: none"> To develop salinity and drought tolerant transgenic tomato lines 	Mymensingh (Biotech. / Tissue culture Lab.)
277	Effect of Gamma irradiation on the embryogenic Calli for development of tidal tolerant and high yield rice variety	<ul style="list-style-type: none"> To investigate the extent of variability in embryogenic rice calli 	Mymensingh (Biotech. / Tissue culture Lab.)
278	<i>In vitro</i> responses of some selected high yielding mustard varieties	<ul style="list-style-type: none"> To identify the regeneration ability of selected mustard varieties. 	Mymensingh (Biotech. / Tissue culture Lab.)
279	Transfer of <i>OsASR</i> and <i>OsCAL</i> genes in elite mustard cultivars	<ul style="list-style-type: none"> To develop salinity and drought tolerant mustard lines 	Mymensingh (Biotech. / Tissue culture Lab.)
280	Isolation and cloning of <i>CryIAc</i> genes from <i>Bacillus thuringiensis</i>	<ul style="list-style-type: none"> To develop biotic stress antagonistic gene constructs To develop biotic stress tolerant rice lines 	Mymensingh (Biotech. / Tissue culture Lab.)
281	Improvement of tidal submergence tolerant rice varieties through marker assisted selection	<ul style="list-style-type: none"> Development of tidal submergence tolerant advance rice line for southern region 	Mymensingh (Biotech. / Tissue culture Lab.)
282	Improvement of salt tolerant rice varieties through marker assisted selection	<ul style="list-style-type: none"> Development of salt tolerant, high yield, early maturing advance rice line for coastal region. 	Mymensingh (Biotech. / Tissue culture Lab.)
283	Development of biotic stress (BLB and Blast) resistant rice variety through marker assisted selection	<ul style="list-style-type: none"> Development of disease-free high yield rice variety 	Mymensingh (Biotech. / Tissue culture Lab.)
284	Identification and utilization of high yield QTLs from backcross population between <i>Oryza rufipogon</i> and the <i>Oryza sativa</i>	<ul style="list-style-type: none"> To identify yield enhancement QTL and enhance the grain yield of elite Bangladeshi rice variety. 	Mymensingh (Biotech. / Tissue culture Lab.)
285	Genetic development and Selection of Submergence Tolerance genotypes (<i>Oryza sativa</i> L.)	<ul style="list-style-type: none"> Genetic development and Selection of Submergence Tolerance genotypes (<i>Oryza sativa</i> L.) 	Mymensingh (Biotech. / Tissue culture Lab.)

Sl. No.	Research Title	Objective (s)	Location (s)
286	Introgression of <i>SUB1</i> QTL into HYV rice varieties for submergence tolerant genotypes.	<ul style="list-style-type: none"> To introgress <i>SUB1</i> QTL from selected FR13A, BRR1 dhan51, BRR1 dhan52, Dhepa, Binadhan-11 into BRR1 dhan49, Guti swarna, Ranjit swarna, Nepali swarna 	Mymensingh (Biotech. / Tissue culture Lab.)
287	DNA fingerprinting and confirmation of F ₁ using <i>qSUB1A</i> based primers	<ul style="list-style-type: none"> To confirmation of F₁ at molecular level 	Mymensingh (Biotech. / Tissue culture Lab.)
288	Development of cold tolerant rice for cold prone environments.	<ul style="list-style-type: none"> To develop cold tolerant line 	Mymensingh (Biotech. / Tissue culture Lab.)
289	Development of cold tolerant rice lines through Marker-assisted backcrossing (BC ₁ F ₂)	<ul style="list-style-type: none"> To introgress cold tolerant genes from selected BRR1 dhan36 into Binadhan-5, Binadhan-6, BRR1 dhan28 and BRR1 dhan29, Binadhan-17, Binadhan-18, BPR₃, BPR₄ 	Mymensingh (Biotech. / Tissue culture Lab.)
290	Evaluation of an early maturing high yielding elite rice mutant in Boro season	<ul style="list-style-type: none"> To assess yield potentials in different regions of Bangladesh 	Mymensingh (HQ) Ishurdi, Cumilla Magura, Rangpur and Cumilla (Sub-station)
291	Evaluation of an early maturing high yielding elite rice mutant in Boro season	<ul style="list-style-type: none"> To assess yield potentials in different regions of Bangladesh 	Mymensingh (HQ) Ishurdi, Cumilla Magura, Rangpur (Sub-station) Mymensingh Cumilla and Magura (On-Farm)
292	Characterization of BINA developed groundnut and lentil varieties using ISSR markers and gene sequencing	<ul style="list-style-type: none"> To characterize and to detect the extent of diversity of BINA developed crop varieties 	Mymensingh (Biotech lab.)
293	Isolation and characterization of probiotics from plant rhizosphere	<ul style="list-style-type: none"> To find effective bacterial strains to use as probiotics and to characterization of bacterial strains using biochemical test and molecular techniques 	Mymensingh (Biotech. Lab.)
294	Evaluation of probiotics strains for controlling wheat blast	<ul style="list-style-type: none"> To find effective bacterial strains to use as bio control agent 	Mymensingh (Biotech. Lab.)
295	Evaluation of bio-fertilizers in different locations	<ul style="list-style-type: none"> To evaluate the performance of common bio-fertilizers on growth and yield of lentil, grass pea and pea 	Magura Ishurdi and Gopalganj (Sub-Stations)

Sl. No.	Research Title	Objective (s)	Location (s)
HORTICULTURE DIVISION			
Varietal improvement of vegetables using induced mutation and advanced techniques			
296	Performance of M ₆ mutants of eggplant	<ul style="list-style-type: none"> To compare yield potential of elite genotypes of eggplant To select shoot and fruit borer tolerant genotypes and To select Phomopsis blight tolerant genotypes 	Mymensingh (HQ) Ishurdi Comilla and Khagrachari
297	Evaluation of M ₅ generation of Carrot	<ul style="list-style-type: none"> To select desirable mutants of carrot for yield potential To select of those carrot on desirable size, shape and color 	Mymensingh (HQ)
298	Evaluation of M ₆ generation of Bottle gourd	<ul style="list-style-type: none"> To select desirable mutants of bottle gourd for yield potential To select of those bottle gourds on desirable size, shape and color 	Mymensingh (HQ) Khagrachari and Magura
299	Screening of M ₃ generation and advanced line of Okra	<ul style="list-style-type: none"> To select high yield potential of okra mutant line Longer harvesting duration Increase softness (soft fiber) 	Mymensingh (HQ)
300	Screening of M ₃ generations of Cucumber	<ul style="list-style-type: none"> To select desirable mutants of cucumber for yield potential and better flesh quality and desirable size, shape and color 	Mymensingh (HQ)
301	Radio-sensitivity test and growing of M ₁ generation of wax gourd	<ul style="list-style-type: none"> To create variability for insect resistance particularly fruit flies 	Cumilla (Sub-station)
302	Growing of M ₁ generation of Sweet gourd	<ul style="list-style-type: none"> To select desirable mutants of sweet gourd for high yield potential and on the basis of desirable size, shape and color 	Mymensingh (HQ) and Cumilla (Sub-station)
303	Radio-sensitivity test and growing of M ₁ generation of spine gourd	<ul style="list-style-type: none"> To create variability for semi-seedless fruit 	Cumilla (Sub-station)
304	Growing of M ₁ generation Brinjal for high yield potentiality	<ul style="list-style-type: none"> To develop mutants tolerant to biotic and abiotic stress and yield potentiality 	Khagrachari (Sub-station)
305	Seed production of Binatomato-10, Binatomato-11 and Binatomato-12	<ul style="list-style-type: none"> To produce breeder seed of Binatomato-10, Binatomato-11 and Binatomato-12 	Mymensingh (HQ) Rangpur Cumilla and Magura (Sub-station)
306	Accelerated breeding of cucurbits through pollen irradiation, anther culture, microspore culture and embryo rescue techniques	<ul style="list-style-type: none"> To develop haploid/doubled haploid production 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
Varietal improvement of spices using induced mutation and advanced techniques			
307	Collection and screening of spices for high yield potential and tolerant to biotic and abiotic stress	<ul style="list-style-type: none"> • Collection of seeds / bulbs /rhizomes of different spices from home and abroad • Screening on the basis of high yield potential and other desirable characteristics 	Mymensingh (HQ)
308	On Farm Yield trial of selected pungent advanced line of Chili	<ul style="list-style-type: none"> • To select advanced lines of chili for high yield potential and pungency 	Mymensingh (HQ) Jamalpur Khagrachari Panchagarh and Bogura
309	Evaluation of M ₅ mutants and two advanced lines of Garlic	<ul style="list-style-type: none"> • To assess high yield potential of garlic 	Mymensingh (HQ) and Natore
310	Evaluation of M ₅ mutants of Onion	<ul style="list-style-type: none"> • To assess high yield potentiality and better storage quality of onion 	Mymensingh Faridpur and Magura
311	Screening of M ₄ mutants of Ginger	<ul style="list-style-type: none"> • To assess high yield potentiality of ginger mutants 	Mymensingh (HQ)
312	Growing of M ₁ generation for development of rhizome rot tolerant mutants	<ul style="list-style-type: none"> • To create variability for rhizome rot tolerance 	Khagrachari (Sub-station)
313	Growing of M ₁ generation of turmeric for development high yielding mutants	<ul style="list-style-type: none"> • To develop mutants for high yield potentiality 	Khagrachari (Sub-station)
314	Growing of M ₃ generation and advanced line of black cumin	<ul style="list-style-type: none"> • To create genetic variability and high yielding variety of black cumin 	Mymensingh (HQ)
315	Seed production of Binamorich-1 and Binarashun-1	<ul style="list-style-type: none"> • To produce breeder seed of Binamorich-1 and Binarashun-1 	Mymensingh (HQ) Cumilla, Magura, Jamalpur and Ishurdi (Sub-station)
Improvement of indigenous fruits through induced mutation and other advanced techniques			
316	Screening of different germplasm of Lemon and Sweet orange from different regions for better yield and quality	<ul style="list-style-type: none"> • Collection of seeds/ propagating materials of different germplasm of lemon and sweet orange from home and abroad 	Mymensingh (HQ) and Khagrachari (Sub-station)
317	Multiplication of Binalebu-1 using various types of propagating methods	<ul style="list-style-type: none"> • To adapt Binalebu-1 in different regions of Bangladesh 	Mymensingh (HQ) Cumilla, Magura, Sherpur, Jamalpur, Barishal and Khagrachari (Sub-station)

Sl. No.	Research Title	Objective (s)	Location (s)
318	Screening of high yielding germplasm of Dragon Fruits, Guava and Wood apple from different regions of Bangladesh	<ul style="list-style-type: none"> Collection of seeds/ propagating materials and screening of those on sweetness, size, shape, color and high yield potential 	Mymensingh (HQ) and Barishal (Sub-station)
318	Collection and screening of high yielding and quality indigenous fruits and exotic fruits through induced mutation and other advanced techniques	<ul style="list-style-type: none"> Collection of seeds/ propagating materials of different germplasm from different regions of the country 	Mymensingh (HQ)
Varietal improvement of flowers using induced mutation and advanced techniques			
320	Collection, radio-sensitivity and growing of M ₁ generation of Marigold, Gladiolus, Tuberose, Gerbera and Chrysanthemum	<ul style="list-style-type: none"> To estimate LD₅₀, GR₅₀, GR₃₀ and To develop desirable mutants 	Mymensingh (HQ)
Improvement of spices varieties cumin, sweet pepper, chili, turmeric and black pepper through induced mutation (CRG Project)			
321	Collection and evaluation of cumin, sweet pepper, chili, turmeric and black pepper	<ul style="list-style-type: none"> Collection of local and exotic germplasm of cumin, sweet pepper, chili, turmeric and black pepper 	Mymensingh (HQ)
322	Growing and screening of M ₂ generation of cumin, sweet pepper, chili, turmeric and black pepper	<ul style="list-style-type: none"> Screening of the collected germplasm of these spices and irradiation of the seeds for generating mutants and Selection and evaluation of desirable mutants for developing varieties with high yield potential, good aroma and flavor 	Mymensingh (HQ)
Varietal Development of Jamun/Jam, Pomegranate, Sapota and Sweet orange through induced mutation suitable for Saline and Drought areas of Bangladesh			
323	Collection, screening and growing of M ₁ generation of Jamun /Jam	<ul style="list-style-type: none"> Collection of local and exotic germplasm of Jamun / Jam, pomegranate, sapota and sweet orange from home and abroad Screening of the collected germplasm and irradiation of scions for generating mutants. Selection and evaluation of desirable mutants for developing varieties with high yield potential, sweetness and color 	Mymensingh (HQ)

Sl. No.	Research Title	Objective (s)	Location (s)
324	Collection, screening and growing of M ₁ generation of Jamun/Jam	<ul style="list-style-type: none"> Collection of local and exotic germplasm of Jamun / Jam, pomegranate, sapota and sweet orange from home and abroad Selection and evaluation of desirable mutants for developing varieties with high yield potential, sweetness and color 	Mymensingh (HQ)
325	Collection, screening and growing of M ₁ generation of Jamun / Jam	<ul style="list-style-type: none"> Collection of local and exotic germplasm of Jamun/Jam, pomegranate, sapota and sweet orange from home and abroad Screening of the collected germplasm and irradiation of scions for generating mutants. 	Mymensingh (HQ)
326	Collection, screening and growing of M ₁ generation of Jamun /Jam	<ul style="list-style-type: none"> Collection of local and exotic germplasm of Jamun /Jam, pomegranate, sapota and sweet orange from home and abroad Selection and evaluation of desirable mutants for developing varieties with high yield potential, sweetness and color 	Mymensingh (HQ)
AGRICULTURAL ECONOMICS DIVISION			
327	Yield gap of potential oil seed variety Binachinabadam-4 in some selected areas of Bangladesh	<ul style="list-style-type: none"> To estimate the yield gap of Binachinabadam-4 among the study areas and To identify the factor affecting the yield of the variety; and suggest some policy guidelines to minimize the yield gap 	Panchagarh Faridpur Kishoreganj Jhenaidah and Bhola
328	Profitability of aman rice variety Binadhan-17 in some selected areas of Bangladesh	<ul style="list-style-type: none"> To estimate the cost and return of Binadhan-17 and To identify the factors affecting the yield of Binadhan-17; and constraints of the variety cultivation 	Gopalganj Sunamganj Rangpur Magura and Pabna
329	Profitability and productivity of drought tolerant rice variety Binadhan-19 in some selected areas of Bangladesh	<ul style="list-style-type: none"> To estimate profitability and productivity of Binadhan-19 in the study areas and To determine factors affecting to adoption of the variety and identify preferences and constraints of the variety cultivation. 	Chapainawabganj Rajshahi Rangpur Pabna and Mymensingh
ISHURDI (BINA SUB-STATION)			
330	Effect of seedling age on growth and yield of Boro rice (Binadhan-5).	<ul style="list-style-type: none"> To investigate the influences of seedling age on tiller dynamics and yield of Boro rice. 	Ishurdi farm (Sub-station)

Sl. No.	Research Title	Objective (s)	Location (s)
331	Effect of different fertilizer dose and planting method on the performance of Binadhan-19 under dibbling.	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for Binadhan-19 in dibbling method. 	Ishurdi farm (Sub-station)
332	Different sources of N and P influence the growth and yield on relay crop with mustard in T.Aman rice.	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for mustard in relay cropping with T.Aman. 	Ishurdi farm (Sub-station)
333	Establishment of BINA technology village through block demonstration in surrounding area of BINA Sub-station, Ishurdi.	<ul style="list-style-type: none"> To disseminate of BINA developed technologies to the farm level. To assess suitability of BINA technologies in farmer's environment across agro-ecological zones. 	Pabna Sirajganj and Natore
334	Observation trial with BINA developed Aman rice varieties in Pabna region.	<ul style="list-style-type: none"> To find out the farmer's performance for cultivation of Aman variety in Pabna region. 	Ishurdi, Pabna
335	Dissemination of BINA varieties/technologies.	<ul style="list-style-type: none"> To demonstrate field performance of BINA technologies to the visitors. 	Pabna Sirajganj and Natore.
MAGURA (BINA SUB-STATION)			
336	Determination of optimum Planting time of Binadhan-17 in Boro Season	<ul style="list-style-type: none"> To determine exact planting time of Binadhan-17 for better yield. 	Magura (On-station and On -Farm)
337	Effectiveness of Various management approaches against yellow stem borer of rice	<ul style="list-style-type: none"> Selection of suitable control measure(s) for YSB. 	Magura (On-station)
338	Validation trial of Binadhan-19 and Binadhan-21	<ul style="list-style-type: none"> To demonstrate the performance of BINA and BRRI released aus varieties at farmers level To identify suitable areas for extensive promotional work 	Magura (On-station and On-Farm)
339	Up scaling of Binatil-3 and Binatil-4	<ul style="list-style-type: none"> To demonstrate the performance of BINA and BRRI released aus varieties at farmers level To identify suitable areas for extensive promotional work 	Magura (On-Farm)
340	Observation trials with Binasarisha- 4, 9 and Binasarisha-10	<ul style="list-style-type: none"> To demonstrate the performance of different varieties and To identify most suitable variety for Magura region 	Magura (On-Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
341	Observation trials with Binamasur-5, 8 and 10.	<ul style="list-style-type: none"> To demonstrate the performance of different varieties and To identify most suitable variety for Magura region 	Magura (On-Farm)
RANGPUR (BINA SUB-STATION)			
342	Boron application using optimizing dose and time of foliar application for increasing yield of chilli	<ul style="list-style-type: none"> To find out the effect of different dose of boron and time of application and recommended once 	Rangpur (Sub-Station)
343	Growing of M ₁ generation of country bean	<ul style="list-style-type: none"> To select desirable mutants for earliness, high yielding and disease tolerance 	Rangpur (Sub-Station)
344	Irradiation and growing of M ₁ generation of selected rice genotypes for drought tolerance	<ul style="list-style-type: none"> To Investigate yield potential in water deficit condition 	Rangpur (Sub-Station)
345	Growing of F ₁ generation from cross between W-60 and Iratom-24	<ul style="list-style-type: none"> To get the lines with earliness and higher yield. 	Rangpur (Sub-Station)
346	Assessing the M ₂ generation of soybean in field condition.	<ul style="list-style-type: none"> To create variability for selection of desirable mutants in report to earliness 	Rangpur (Sub-Station)
347	Assessing the optimum spacing and age of seedling for maximization yield in Aus rice.	<ul style="list-style-type: none"> To find out the proper spacing and age of seedling 	Rangpur (Sub-Station)
348	Development of cropping pattern using BINA released varieties in greater Rangpur and Dinajpur region.	<ul style="list-style-type: none"> To increase cropping intensity in these territory 	Baliadangi, Thakurgaon and Bisnath char, Kaunia, Rangpur
349	Establishment of BINA-technology village in surrounding areas of BINA sub-station, Rangpur	<ul style="list-style-type: none"> To include BINA technologies in the existing cropping pattern and To demonstrate the field performance of BINA technologies to the visitors 	Sreerampur, Rangpur sadar
CUMILLA (BINA SUB-STATION)			
350	Effect of different spacing on Binadhan-19	<ul style="list-style-type: none"> To select the appropriate spacing for Binadhan-19 	Cumilla (Sub-Station)
351	Yield and yield contributing characters of four promising aus rice varieties	<ul style="list-style-type: none"> To select the most suitable variety for aus season 	Cumilla (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
352	Comparative study of some modern aman rice varieties	<ul style="list-style-type: none"> To select the most suitable variety for aman season in Cumilla region 	Cumilla (Sub-Station)
353	Feasibility of Binadhan-17 and Bindhan-20 growing in boro season	<ul style="list-style-type: none"> To recommend Binadhan-17 and Binadhan-20 for cultivation in boro season 	Cumilla (Sub-Station)
354	On-station yield trial of some short duration lines in boro season	<ul style="list-style-type: none"> To develop high yield short duration variety for boro season 	Cumilla (Sub-Station)
355	Preliminary yield trial with three selected M ₆ soybean mutants	<ul style="list-style-type: none"> To develop high yielding short duration variety 	Cumilla (Sub-Station)
356	Development of alternative cropping pattern T. Aman (Binadhan-17)-Mustard (Binasharisha-4)- Boro (Binadhan-14) against T. Aman-Fallow- Boro in Cumilla region	<ul style="list-style-type: none"> To study economically profitable three crops based cropping pattern in Cumilla region for increasing cropping intensity and productivity as well as to increase farmer's income 	Kasba, Brahmanbaria and Burichang, Cumilla
357	Observation trial with BINA released Binadhan-20 in Cumilla region	<ul style="list-style-type: none"> To demonstrate the performance of Binadhan-20 at the farmer's field. 	Sadar Dakshin Burichang, Cumilla and Sadar, Brahmanbaria
358	Establishment of BINA Technology village through block demonstration in surrounding areas of BINA Sub-station, Cumilla	<ul style="list-style-type: none"> To include BINA technologies in the existing cropping pattern 	Burichang, Cumilla
359	Up-scaling of BINA developed different varieties in Cumilla region	<ul style="list-style-type: none"> To demonstrate field performance of BINA technologies to the visitors 	Cumilla, Brahmanbaria and Chandpur Upazilla of Cumilla Region (On-Farm)
360	Seed multiplication and TL/Breeder seed production of BINA developed varieties	<ul style="list-style-type: none"> To supply seed for demonstration trials, BINA village program, GOs and NGOs, farmers and other research purposes 	Cumilla (On-Farm)
SATKHIRA (BINA SUB-STATATION)			
361	Comparative study of advance salt tolerant mutant lines with existing salt tolerant varieties of BINA and BRRI in respect of insect pest infestation in Satkhira	<ul style="list-style-type: none"> To find out the infestation level of insects and yield performance of mutant lines and existing varieties 	Satkhira (Substation)

Sl. No.	Research Title	Objective (s)	Location (s)
362	Block farming with salt tolerant Boro rice variety Binadhan-10 in collaboration with DAE	<ul style="list-style-type: none"> To demonstrate the performance of Binadhan-10 in selected suitable areas and To encourage the farmers for extensive cultivation of Binadhan-10 	Sadar Tala Debhata Shamnogor Kaliganj and Satkhira
363	Development of a suitable cropping pattern in the farmers' field of Satkhira	<ul style="list-style-type: none"> To find out a profitable cropping pattern in the selected suitable areas 	Tala, Satkhira
364	Development of BINA-technology village in Satkhira	<ul style="list-style-type: none"> To include BINA technologies in the existing cropping pattern 	Nogorghata and Tala, Satkhira
365	Development of BINA-technology village in Satkhira	<ul style="list-style-type: none"> To demonstrate field performance of BINA released varieties and technologies to the visitors 	Tala, Satkhira
366	Dissemination of BINA-varieties/technologies	<ul style="list-style-type: none"> To demonstrate field performance of BINA technologies to the visitors and To extend promising mutant varieties among the farmers through seed exchange program 	Satkhira (Sadar, Tala, Kaliganj, Kolaroa, Debhata, Asasun, Shamnogor) and Khulna (Sadar, Dumuria, Paikgacha)
JAMALPUR (BINA SUB-STATION)			
367	Nutrient budgeting as influenced by different cropping sequences in Jamalpur	<ul style="list-style-type: none"> To know the mean effect of different nitrogen management practices on the growth, N uptake and yield of rice and To study the mean effect of different submergence situation on the growth, N uptake and yield of rice. 	Jamalpur (On-Farm)
368	Evaluation of the methods of fertilization (soil and foliar) for improvement of yield and Zn enrichment in wheat grains.	<ul style="list-style-type: none"> Evaluation of methods of fertilization (soil and foliar) to improve yield and Zn & Fe enrichment in grains. 	Jamalpur (Sub-station)
369	Determination of profitable cropping pattern with BINA developed crop varieties for Jamalpur	<ul style="list-style-type: none"> Identify profitable cropping pattern with BINA developed crop varieties and To find out the performance of improved cropping pattern. 	Jamalpur (On-Farm)
370	Evaluation of organic fertilizer for vegetable (Cabbage and Tomato) production at farmer's field	<ul style="list-style-type: none"> To observe the effect of the organic fertilizers on cabbage and tomato production 	Jamalpur (On-Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
371	Growing of M ₁ generation for submergence tolerance and high yielding rice variety	<ul style="list-style-type: none"> To develop submergence tolerance rice variety. 	Jamalpur (Sub-Station)
SHERPUR (BINA SUB- STATION)			
372	Screening of M ₄ mutant of Tulsimala	<ul style="list-style-type: none"> To develop improved varieties for short duration, tolerant to lodging, pest and disease tolerance and high yielding varieties with aromatic quality 	Nalitabari, Sherpur (Sub-Station)
373	Irradiation of Tulsimala rice and growing of M ₁ generation	<ul style="list-style-type: none"> To develop short duration, lodging resistant, high yielding aromatic rice variety 	Nalitabari, Sherpur (Sub-Station)
374	Improvement of Biroi through hybridization technique	<ul style="list-style-type: none"> To develop short duration, lodging resistance, high yielding Biroi type rice variety 	Nalitabari, Sherpur (Sub-Station)
375	Collection, screening, evaluation and improvement of indigenous Ber (<i>Zyzyphus mauritiana</i>) germplasm	<ul style="list-style-type: none"> To select high yield, short duration, early fruit bearing, higher edible portion, best picking quality and longer shelf life. 	Nalitabari, Sherpur (Sub-Station)
376	Quality seed production of Binapiaz-2 through nutrient management practices	<ul style="list-style-type: none"> To increase onion seed yield through improving soil health by judicious application of fertilizers and manures 	Nalitabari, Sherpur (Sub-Station)
377	Effects of plant spacing and mulching on yield of Binamarich-1	<ul style="list-style-type: none"> To evaluate spacing and mulching practices for higher yield of Binamarich-1 	Nalitabari, Sherpur (Sub-Station)
378	Block farming of BINA released varieties in Sherpur and Netrokona districts	<ul style="list-style-type: none"> To disseminate of BINA developed technologies to the farm level and To include BINA technologies in the existing cropping pattern 	Nalitabari, Sherpur (Sub-Station)
379	Production of quality seed of BINA released crop varieties popular in Nalitabari region	<ul style="list-style-type: none"> To supply seed for demonstration trials, BINA village development programme, GOs and NGOs, farmers and other research purposes 	Nalitabari, Sherpur (Sub-Station)
380	Development of improved cropping pattern in Nalitabari, Sherpur	<ul style="list-style-type: none"> To find out the performance of improved cropping pattern. To increase crop production and income of the farmer's 	Nalitabari, Sherpur (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
NOAKHALI (BINA SUB-STATION)			
381	Production of BC2F1 population crossing between F1 and Binadhan-17	<ul style="list-style-type: none"> To confirm F1 plants by using gene-linked(blast) molecular marker and to obtain recovery percentage of genome(RPG) of Binadhan-17 	Mymensingh (HQ) and Noakhali (Sub-Station)
382	Production of BC3F1 population crossing between F1 and Binadhan-17	<ul style="list-style-type: none"> To confirm F1 plants by using gene-linked(blast) molecular marker and to obtain recovery percentage of genome (RPG) of Binadhan-17 	Mymensingh (HQ) and Noakhali (Sub-Station)
383	Screening of local salt tolerant rice collected from Noakhali and surrounding area	<ul style="list-style-type: none"> To select salt tolerant rice lines 	Noakhali (Sub-Station)
384	Farmers observation trials with salt tolerant boro rice varieties Binadhan-8 and Binadhan-10	<ul style="list-style-type: none"> To evaluate the performance of salt tolerant varieties Binadhan-8 and Binadhan-10 in different location of Noakhali districts and to identify suitable areas for extensive promotional work 	Shubarnochar, Noakhali (On-Farm)
385	Farmers observation trials with soybean varieties Binasoybean-1, Binasoybean-2, Binasoybean-3, Binasoybean-4 and Binasoybean-5	<ul style="list-style-type: none"> To evaluate the performance of BINA developed soybean varieties to farmers in different location of Noakhali districts and identify suitable areas for extensive promotional work 	Shubarnochar, Noakhali (On-Farm)
386	Establishment of Cropping pattern	<ul style="list-style-type: none"> To increase the cropping intensity, to include BINA released varieties in the existing cropping pattern and to improve farmers socio-economic status 	Shubarnochar, Hatia and Noakhali Sadar
387	Establishment of BINA technology villages in surrounding areas of BINA Sub-Station, Noakhali	<ul style="list-style-type: none"> To establish technology pilot area in surrounding villages, to improve farmers socio-economic status and to include BINA technologies in the existing cropping pattern 	Shubarnochar, Noakhali
SUNAMGANJ (BINA SUB-STATION)			
388	Effect of transplanting time and seedling age on growth and yield of boro rice in Sunamganj region	<ul style="list-style-type: none"> To observe effect of transplanting time and seedling age on tiller dynamic and yield in boro rice and To find out appropriate harvesting time in haor area 	Sunamganj (Sub-Station)
KHAGRACHARI (BINA SUB-STATION)			
389	Growing of M ₁ generation for drought tolerance and high yielding sticky rice	<ul style="list-style-type: none"> To identify high yielding drought tolerant sticky rice lines 	Khagrachari (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
390	Growing of F ₁ generation of BRRIdhan85 × Binadhan-19 reciprocal cross	<ul style="list-style-type: none"> To develop early maturing rice lines with higher yield 	Khagrachari (Sub-Station)
391	Observation yield trial of upland rice lines (International Upland Rice Observational Nursery)	<ul style="list-style-type: none"> To select desired lines for upland ecosystems 	Khagrachari (Sub-Station)
392	Growing of M ₁ generation for development of high yielding zinger lines	<ul style="list-style-type: none"> To identify rhizome rot tolerance high yielding zinger lines 	Khagrachari (Sub-Station)
393	Growing of M ₁ generation for development of high yielding turmeric lines	<ul style="list-style-type: none"> To identify rhizome rot tolerance high yielding turmeric lines 	Khagrachari (Sub-Station)
394	Development of T. Aman-Mustard-Mungbean-T. Aus based improved cropping pattern against Fallow- Fallow-Vegetables- T. aman rice in Sadar and Panchari Upazila, Khagrachari	<ul style="list-style-type: none"> To increase the cropping intensity (%) and To develop a profitable cropping pattern 	Sadar and Panchari, Khagrachari
395	Establishment of BINA Technology village in surrounding area of BINA Sub-station, Khagrachari	<ul style="list-style-type: none"> To establish BINA technology pilot area in the surrounding village(s) of Khagrachari BINA sub-station and To include BINA technologies in the existing cropping pattern 	Satvaiya Para Harinath Para Ranga Panichara and Shalbon, Khagrachari
396	Up-scaling of BINA developed varieties	<ul style="list-style-type: none"> To demonstrate the performance of BINA released different varieties to the farmer's field. 	Khagrachari (On-Farm)
397	Quality seed production of promising BINA released varieties for hill tracts	<ul style="list-style-type: none"> To supply quality seeds to the farmers and DAE for extension work 	Khagrachari (On-Farm) and Khagrachari (Sub-Station)
GOPALGONJ (BINA SUB-STATION)			
398	Comparative Performance of System of Rice Intensification (SRI) and Conventional Methods of Rice Cultivation in Southern Part of Bangladesh	<ul style="list-style-type: none"> To find out the suitability of SRI in rice cultivation at the southern part of Bangladesh. 	Gopalganj (Sub-Station)

Sl. No.	Research Title	Objective (s)	Location (s)
399	Development of a Profitable Cropping Pattern in Gopalganj Region	<ul style="list-style-type: none"> To find out a profitable cropping pattern in the selected suitable area. 	Gopalganj (Sub-Station)
400	Characterization of Local <i>Aman</i> Rice Germplasm	<ul style="list-style-type: none"> To characterize the germplasms according to their morphology and yield performance. 	Gopalganj (Sub-Station)
401	Development of BINA-technology village in Gopalganj	<ul style="list-style-type: none"> To include BINA technologies in the existing cropping pattern 	Fukra, Sadar, Gopalganj
402	Dissemination of BINA-varieties/technologies	<ul style="list-style-type: none"> To demonstrate field performance of BINA technologies to the visitors and To extend promising mutant varieties among the farmers through seed exchange program 	Gopalganj (Sadar, Chandra dighalia, pykerdanga, fukra, Kasiani, Tungipara, Kotalipara) and Faridpur (Boalmari)
BARISHAL (SUB- STATION)			
403	Morpho-physiological aspect of panicle development and spikelet sterility in rice.	<ul style="list-style-type: none"> To find out the morphological causes of panicle development and spikelet sterility in rice. 	Barishal (Sub-Station farm)
404	Effect of seedling age on yield and yield contributing characters of Binadhan-10 cultivated in Barishal	<ul style="list-style-type: none"> To investigate the effect of seedling age on yield contributing characters and its impact on grain yield. 	
405	Improvement of tidal submergence rice variety for Barisal region through induced mutation and advanced breeding techniques.	<ul style="list-style-type: none"> To assess the morpho-physiological causes for lower grain yield and select the early maturing submergence tolerant mutant lines with higher grain yield. 	
406	Genetic diversity study of some rice cultivars using morpho-molecular characters	<ul style="list-style-type: none"> To characterize and identify the genetic variation amongst the rice cultivars. 	
407	Technology Transfer and Quality Seed Production	<ul style="list-style-type: none"> To assess suitability of recommended and potential technologies. To produce quality seed. 	
408	Up-scaling of BINA developed crop varieties	<ul style="list-style-type: none"> To observe the yield performance and widening its adoption by the farmers in Barishal region. 	Barishal region

Sl. No.	Research Title	Objective (s)	Location (s)
CHAPAINAWABGONJ (BINA SUB-STATION)			
409	Studies on groundwater dynamics in Barind areas for Sustainable Water Management	<ul style="list-style-type: none"> To determine long-term trend of WT for sustainable management 	Greater Rajshahi Region (Barind area)
410	Monitoring of groundwater table fluctuation at Chapainawabganj substations	<ul style="list-style-type: none"> To gather long-term WT data To observe seasonal and long-term trend for its sustainability 	Chapainawabganj (Sub-Station)
411	On - Farm research and technology Transfer	<ul style="list-style-type: none"> To demonstrate the technologies/ released varieties To encourage farmers in adopting the varieties 	Chapainawabganj (Sub-Station)
412	Technology transfer to the farmer's through block demonstration and quality seed production	<ul style="list-style-type: none"> To demonstrate the technologies/ released varieties To encourage farmers in adopting the varieties 	Chapainawabganj (On-Farm)
413	Establishment of BINA technology village	<ul style="list-style-type: none"> To train up farmers on crop management and seed production. 	Chapainawabganj (Sub- Station)

BANGLADESH SUGARCROP RESEARCH INSTITUTE

BANGLADESH SUGARCROP RESEARCH INSTITUTE

Sl. No.	Research Title	Objective (s)	Location (S)
BREEDING DIVISION			
Varietal Improvement			
1.	Collection, evaluation and conservation of indigenous and exotic germplasm of sugarcane	<ul style="list-style-type: none"> • Collecting and conserving indigenous and exotic germplasm for using as parent materials and commercial varieties 	Ishurdi, Pabna (BSRI) and Gazipur, RSRS
2.	Characterization and documentation of selected sugarcane germplasm	<ul style="list-style-type: none"> • Assessing the genetic diversity • Identifying the accession 	Ishurdi, Pabna (BSRI)
3.	Morphological characterization of stevia germplasm	<ul style="list-style-type: none"> • Determining the morphological diversity among selected stevia germplasm and • Evaluating biomass accumulation and physiological indices for assessing its breeding potential 	Ishurdi, Pabna (BSRI) and Thakurgaon (RSRS)
4.	Breeding for high sugar, high yielding and short duration varieties of sugarcane	<ul style="list-style-type: none"> • Developing improved varieties of sugarcane for higher cane (100 t/ha), sugar (pol% cane >13) and goor yield • Selecting short duration (10 months) and lodging tolerant variety of sugarcane and • Selecting self-detashing variety of sugarcane 	Ishurdi, Pabna (BSRI)
5.	Breeding for drought tolerant varieties of sugarcane	<ul style="list-style-type: none"> • Developing varieties tolerant to drought stress 	Ishurdi, Pabna (BSRI) and Rajshahi
6.	Breeding for salt tolerant varieties of sugarcane	<ul style="list-style-type: none"> • Developing varieties tolerant to salinity (12-15 ds/m) stress 	Ishurdi, Pabna (BSRI) and Khulna
7.	Title: Sugarcane varietal improvement through mutation breeding	<ul style="list-style-type: none"> • Developing variety having high sucrose content and • Developing varieties tolerant to red rot disease and smut disease 	Ishurdi, Pabna (BSRI)
8.	Evaluation of promising clones under different yield trials at different agro-climatic conditions of Bangladesh	<ul style="list-style-type: none"> • Determining the performance of the clones under varying agro-climatic conditions; • Selecting location specific variety and • Determining the ratooning potential of the clones 	Ishurdi, Pabna (BSRI) Rajshahi (RSRS) Thakurgaon Panchagor (RSRS) Gazipur Carew & Co., Joypurhat and Jamalpur
9.	Photoperiodic regulation of flowering in	<ul style="list-style-type: none"> • Inducing flower at early in mid and late flowering genotypes • Inducing flower at late in early flowering 	Ishurdi, Pabna (BSRI)

Sl. No.	Research Title	Objective (s)	Location (S)
	sugarcane	<ul style="list-style-type: none"> genotypes • Inducing flower in sparse and non-flowering genotypes and • Synchronizing the flowering time of different genotypes 	
10.	Selection of sugarcane clone as chewing variety	<ul style="list-style-type: none"> • Developing location specific chewing variety and • Selecting and evaluating different clone(s) for the development of chewing variety 	Khagrachari and Rangamati
11.	Evaluation of sugarcane clone as goor variety for Barisal region	<ul style="list-style-type: none"> • To select location specific goor variety 	Barisal and Borguna
12.	Creation of genetic variability in sugarcane using somatic tissue	<ul style="list-style-type: none"> • Induce flower in non-flowering genotypes and • Getting variability from somatic tissue 	Ishurdi, Pabna (BSRI)
13.	Improvement of local date palm using artificial pollination and molecular breeding	<ul style="list-style-type: none"> • Developing improved date palm varieties for quality juice and fruit yield 	Ishurdi, Pabna (BSRI)
14.	Breeder seed multiplication of promising clones/ varieties of sugarcane	<ul style="list-style-type: none"> • Supplying seeds of the promising clones for setting up of different experiments and further multiplication; • Producing clean seed for nucleus seed program and • Maintaining the source of clean seed of released varieties. 	Ishurdi, Pabna (BSRI)

BIOTECHNOLOGY DIVISION

Biotechnology and Frontier Research

15.	Characterization and Documentation of Sugarcane Using Molecular Markers	<ul style="list-style-type: none"> • Identification of sugarcane varieties, active germplasm and developed somaclones through DNA Fingerprinting • Determination of genetic diversities among the sugarcane varieties, active germplasm and somaclones using molecular markers • Tagging of marker against identified character and • Developing Marker Assisted Selection (MAS) method for sugarcane 	BSRI and BAU Lab.
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Sl. No.	Research Title	Objective (s)	Location (S)
16.	Genetic Enhancement of Sugarcane through Development of Stress Tolerant Somaclones and their Field Evaluation	<ul style="list-style-type: none"> • Development of somaclones under selection pressure using NaCl, polyethylene glycol and mutagenic agents and • Evaluation and selection of somaclones for salinity and drought as well as sugarcane somaclones with desirable traits 	BSRI Lab, BAU and BJRI Lab.
17.	Development and Screening of Sugarcane Somaclones against Red Rot Disease	<ul style="list-style-type: none"> • Development of somaclones under in vitro selection pressure for red rot tolerance in sugarcane; and • Evaluation and selection of red rot tolerant somaclones. 	BSRI Lab. and Field
18.	Genetic Transformation of Salt and Drought Tolerant Genes in Sugarcane	<ul style="list-style-type: none"> • Collection and maintenance of Agrobacterium strains with salt and drought tolerant genes • Transformation of salt and drought tolerant genes in sugarcane • Confirmation of transformation and expression of salt and drought tolerant genes in sugarcane and • Transgenic sugarcane development 	BSRI BAU DU Lab. and BARI Lab.
19.	Micropropagation for Vegetative Seed Production of Sugarbeet	<ul style="list-style-type: none"> • Identifying the suitable sources of explants for micro-propagation • Finding out the suitable media for micro-propagation • Developing tissue culture protocols for micro-propagation of Sugarbeet and • Hardening plantlets for transplanting. 	BSRI Lab. Pot and Field
20.	Micro-propagation of Sugarcane Varieties for Rapid Multiplication and High-Quality Seeds (Hqs) Production	<ul style="list-style-type: none"> • Optimizing variety specific media for micro-propagation; • Production of micro-propagated plants for high quality seed • Evaluating field performances of micropropagated plants and • Evaluating genetic stability in micropropagated plants using DNA Fingerprinting. 	BSRI Lab. and Field
21	Tissue Culture for Multiplication of Arabian Date Palm and Palmyra Palm	<ul style="list-style-type: none"> • Identification of suitable sources of explants • Finding out the suitable media • Production of plantlets and • Developing tissue culture protocols for Arabian Date Palm and Palmyra Palm. 	BSRI Lab. Pot, Field Khulna Patuakhali and Valuka

Sl. No.	Research Title	Objective (s)	Location (S)
PHYSIOLOGY AND SUGAR CHEMISTRY DIVISION			
Varietal Improvement			
22	Screening Sugarcane Genotypes under ZYT-I, II & III against Water-logging Stress	<ul style="list-style-type: none"> • Selecting sugarcane clones with superior tolerance to water-logging; • Finding out morphological and physiological basis for water-logging tolerance to sugarcane and • Identifying parents to use in further crossing programme to develop water-logging tolerant varieties. 	Ishurdi (Pabna) (Pot & Field), Sirajgonj / Jamalpur and Gazipur
23	Screening Sugarcane Genotypes under ZYT-I, II & III against Flood Stress	<ul style="list-style-type: none"> • Selecting clones with superior tolerance to flood stress; • Finding out morphological and physiological basis for flood tolerance to sugarcane and • Identifying parents to use in further crossing programme to develop flood tolerant varieties. 	Ishurdi (Pabna) (Pot) Paksey (Ishurdi) / Pabna Sadar, Sirajgonj and Chunarughat Habiganj / Sunamganj.
24	Screening Sugarcane Genotypes under ZYT-I, II & III against Drought Stress	<ul style="list-style-type: none"> • Selecting sugarcane clones with superior tolerance to drought stress • Finding out morphological and physiological basis for drought tolerance to sugarcane and • Identifying parents to use in further crossing programme to develop drought tolerant varieties. 	BSRI (PVC pipe), Thakurgaon and Godagari, Rajshahi (RSRS)
25	Screening Sugarcane Genotypes under ZYT -I, II & III against Salinity Stress	<ul style="list-style-type: none"> • Selecting sugarcane clones with superior tolerance to salinity; • Identifying morphological and physiological characters of salinity tolerance and • Identifying parents to use in further crossing programme to develop salinity tolerant varieties 	Ishurdi (Pabna) (Concrete tank) and Shatkhira
26	Influence of Physiological Management on Growth, Yield and Quality of BSRI Bred Sugarcane Varieties	<ul style="list-style-type: none"> • Maximize sugarcane productivity and quality through different physiological management. 	Ishurdi (Pabna)
27	Studies on Growth and Development of Date Palm and Palmyra Palm	<ul style="list-style-type: none"> • To investigate the mechanism, and to find methods to break dormancy for achieving rapid, uniform and high germination and • To observe the growth and development phase of date palm and palmyra palm trees 	Ishurdi (Pabna)

Sl. No.	Research Title	Objective (s)	Location (S)
Crops and Soil Management			
28	Germination Potentiality of Advanced Sugarcane Clones under Low Temperature Stress Condition	<ul style="list-style-type: none"> Evaluating BSRI bred advanced sugarcane clones having inbuilt potential to germinate under lower ambient temperature. 	Ishurdi, Pabna BSRI yard
Varietal Improvement			
29	Screening Sugarcane Clones Based on Maturity Behaviour and <i>Goor</i> Manufacture under ZYT-I, II & III Test Stages	<ul style="list-style-type: none"> Determining maturity behavior of sugarcane varieties/clones and find out peak maturity period and Screening sugarcane clones suitable for goor production and Determining the quality of goor after preparation 	Ishurdi, Pabna
30	Screening Sugarbeet Based on Maturity Behaviour and <i>Goor</i> Manufacture	<ul style="list-style-type: none"> Determining maturity behaviour of sugarbeet varieties and find out peak maturity period Determining suitable process of <i>goor</i> production from sugarbeet and Determining the quality of <i>goor</i> after preparation. 	Ishurdi (Pabna)
31	Title: Effect of Different Planting Times on Maturity Status of Sugarcane	<ul style="list-style-type: none"> To find out the effect of planting time on maturity of sugarcane and To determine the effect of planting time on growth, yield and quality of sugarcane 	Ishurdi (Pabna)
Sugar and Goor Processing			
32	Studies on Preservation Technique of Sugarcane juice	<ul style="list-style-type: none"> Optimizing the techniques for preservation of ready-to-serve bottled sugarcane juice of consumer acceptability and Observing shelf life of preserved sugarcane juice. 	Physiology and Sugar Chemistry Laboratory.
33	Effectiveness of Different Packing Films for <i>Goor</i> Preservation and Marketing	<ul style="list-style-type: none"> To find out effective packaging material for small scale <i>goor</i> preservation and marketing in super market To observe shelf life of preserved <i>goor</i> marketing in super market and To observe overall quality of <i>goor</i> after preparation and preservation. 	Ishurdi (Pabna)
34	Monitoring of Cane Quality in Different Sugar Mills Zone	<ul style="list-style-type: none"> To analyze the 1st expressed juice for Brix, pol, purity, R.S., fibre (%) and percent non-cane and To evaluate cane quality to observe mills performance 	NBSM and PBSM

Sl. No.	Research Title	Objective (s)	Location (S)
AGRONOMY AND FARMING SYSTEMS DIVISION			
Varietal Improvement			
35	Agronomic Evaluation of BSRI Developed Promising Sugarcane Clones at Different Planting Dates	<ul style="list-style-type: none"> To study the comparative performance of different promising clones To find out the optimum date of planting for advanced promising clones of sugarcane To generate agronomic information to meet up the requirement of National Seed Board 	Ishurdi, Pabna
Crop and Soil Management			
36	Ratooning Potentiality of Newly Released Sugarcane Varieties in High Ganges River Floodplain Soils (AEZ 11)	<ul style="list-style-type: none"> Selecting suitable cane variety (s) for ratoon in High Ganges River Floodplain Soil and Increasing profitability of sugarcane cultivation by ratooning 	Ishurdi, Pabna
37	Increasing Farm Productivity through Sequential Intercropping of three crops with sugarcane	<ul style="list-style-type: none"> To select the suitable sequences of intercrop in sugarcane and To lift up farmers income through increase cropping intensity 	Ishurdi, Pabna
38	Improving Farm Productivity through Sequential Intercropping with Chewing Varieties	<ul style="list-style-type: none"> To identify suitable chewing cane variety in different regions To evaluate the best combination of intercrop with chewing cane 	Ishurdi, Pabna Sirajgonj Jessore Satkhira Rajshahi Chunarughat and Gazipur
39	Performance of Potato-Vine Crops Sequential Intercropping in Sugarcane	<ul style="list-style-type: none"> To screen suitable high value vine vegetables as intercrops with paired row sugarcane To develop an appropriate vine vegetable intercropping package for paired row sugarcane and To maximize the productivity and economic return from sugarcane field 	Ishurdi, Pabna
40	Livelihood Improvement in Southern Region through Homestead Chewing Cane production	<ul style="list-style-type: none"> To select suitable chewing varieties for homestead cultivation To select location specific chewing varieties for southern regions and To increase earning through chewing cane cultivation 	Satkhira

Sl. No.	Research Title	Objective (s)	Location (S)
41	Weed Control Efficiency of Some Herbicide in Sugarcane	<ul style="list-style-type: none"> To study the performance of herbicides in controlling weeds in sugarcane field and To find out the economic advantage of weed control by herbicide 	Ishurdi, Pabna Gazipur) and Thakurgaon (RSRS)
42	Effect of planting methods, weed management practices and date of harvest on yield and quality of sugarbeet	<ul style="list-style-type: none"> To find out the combined effect of planting methods and weed managements for sugarbeet yield and To compute the economic analysis of planting method and weed management on yield and quality of sugarbeet under different harvesting time. 	Ishurdi, Pabna and Thakurgaon (RSRS)
43	Intercropping of High Value Crops with Transplanted Sugarcane	<ul style="list-style-type: none"> To select the suitable high value intercrop in transplanted sugarcane 	Ishurdi, Pabna
SOILS AND NUTRITION DIVISION			
Soil Fertility			
44	Nutrient Requirement for Sustainable Sugarcane Production under Different AEZs	<ul style="list-style-type: none"> Finding out the optimum and economic nutrient requirement for sustainable sugarcane production in different AEZs 	Thakurgaon Jaipurhat and Chunarughat
45	Effect of Neem Coated Urea on Sugarcane Growth, Yield and Quality	<ul style="list-style-type: none"> Improving N use efficiency in sugarcane compare with prilled urea Determining the optimum dose of NCU for higher sugarcane yield and Minimizing the cost of production and environmental pollution. 	Ishurdi, Pabna and Thakurgaon (RSRS)
46	Effect of Vermi-compost in Combination with Inorganic Fertilizer on Growth, Yield and Quality of Sugarcane	<ul style="list-style-type: none"> To assess the effect of vermi-compost and inorganic fertilizer on yield and quality of sugarcane To Study the impact of vermi-compost on soil fertility and- To evaluate the optimum dose of vermi-compost for sugarcane. 	Ishurdi, Pabna
47	Recommendation of Fertilizers for Late Planting Sugarcane	<ul style="list-style-type: none"> To identify proper time of top dressing of fertilizer for late planting sugarcane. 	Ishurdi, Pabna and Thakurgaon (RARS)
48	Nutrient Management for Sugar Date Palm Cultivation in Bangladesh	<ul style="list-style-type: none"> Developing appropriate nutrient management packages for profitable cultivation of date palm. 	Ishurdi, Pabna and Chuadanga (Sub-station)
49	Site Specific Fertilizer Requirement for Sugarbeet Production	<ul style="list-style-type: none"> Determining the appropriate rate of N, P, K, S and B fertilizer for sugarbeet production 	Ishurdi, Pabna and Thakurgaon and Rangpur ((RARS)

Sl. No.	Research Title	Objective (s)	Location (S)
50	Nutrient Requirement for Sugarcane Cultivation in Char Land of Bangladesh	<ul style="list-style-type: none"> To develop appropriate nutrient management practices for sustainable cultivation of sugarcane in char land soils of Bangladesh 	Gangachara, Rangpur Kurigram Sadar Kurigram and Subarnochar, Noakhali
51	Combined Application of Organic and Inorganic Fertilizer on the Growth, Biomass Yield, Quality and Nutrient Content of Stevia (<i>Stevia rebaudiana</i> Ber.)	<ul style="list-style-type: none"> Finding out the economically optimum level of nutrients for stevia production in Bangladesh 	Ishurdi, Pabna
52	Effects of Fertilizer Rate and Application time of Nitrogen on Growth, Yield and Quality of Chewing cane	<ul style="list-style-type: none"> Determining the optimum dose of NPK for higher sugarcane yield To establish the effects of rates and split applications of N fertilizer and Minimizing the cost of production and environmental pollution. 	Ishurdi, Pabna
53	Salinity and Fertility Management for Cultivating Chewing Cane in Saline Prone Areas of Bangladesh	<ul style="list-style-type: none"> To develop appropriate fertility and salinity management practices for sustainable cultivation of Chewing Varieties of sugarcane in saline prone soils of Bangladesh 	Noakhali, Bagerhat and Ishurdi, Pabna (Pot Experiment)
54	Effects of boron on sugarcane yield, quality parameters and cracking in Hill Tracts.	<ul style="list-style-type: none"> To find out the effects of boron to check the growth cracks of sugarcane stem To assess the superiority of boron application between soil application and foliar application and To compare solubor as effective source of boron 	Bandarban Khagrachhari and Ishurdi, Pabna
Soil Microbiology			
55	Isolation and Characterization of Nitrogen-Fixing Bacteria from Sugarcane soil-plant system.	<ul style="list-style-type: none"> Isolation of nitrogen-fixing bacteria from rhizosphere, rhizoplane, roots and stem of the sugarcane Determination of biochemical and genetic characterization of bacteria and Investigation of nitrogen fixation capacity of the isolated bacteria 	Ishurdi, Pabna
56	Isolation and Characterization of Phosphate Solubilizing Bacteria from Sugarcane Rhizosphere	<ul style="list-style-type: none"> Isolating phosphate solubilizing bacteria from sugarcane and Characterizing of promising phosphate solubilizing bacteria on the basis of morphological and biochemical characteristics for making biofertilizer 	Ishurdi, Pabna (BNF Lab.)

Sl. No.	Research Title	Objective (s)	Location (S)
57	Biological N ₂ -fixation by Free-living and Associative Bacteria in Sugarcane Genotypes of Bangladesh	<ul style="list-style-type: none"> To identify / screen out suitable sugarcane genotypes favoured with biological N₂-fixing system under N-stressed field condition To investigate the occurrence of diazotrophic bacteria in sugarcane genotypes and To estimate the input of N, via BNF, into the sugarcane genotypes under study. 	Ishurdi, Pabna
ON-FARM RESEARCH DIVISION			
Crop Production and Management			
58	On-farm Trial of Promising Sugarcane Clones at Different AEZs Under Farmers' Field	<ul style="list-style-type: none"> To evaluate field level performance of advanced clones/lines in different AEZs and To obtain farm reaction about the advanced clones/lines. 	Thakurgaon Joypurhat Rajshahi (Barind Tract) Jamalpur and Chuadanga
59	Performance of Newly Released BSRI Sugarcane Varieties in Char land Ecosystem	<ul style="list-style-type: none"> To identify suitable BSRI released varietie(s) for Charlands and To assess the economic profitability of BSRI released varieties in the Charlands 	Ishurdi, Pabna
60	Adaptive Trial of Chewing Cane in Different Region of Bangladesh	<ul style="list-style-type: none"> To find out of chewing varieties for higher yield and economic return for different agro-ecological zone and Ensuring food and nutrition, employment opportunity of chewing cane growers 	Rajshahi Gaibandh Satkhira Manikganj and Ishurdi, Pabna
61	Performance of Different Weed Management Practices in Sugarcane Field	<ul style="list-style-type: none"> To identify the weed infestation behavior in sugarcane field and To evaluate the performance of non-chemical and chemical methods for controlling weeds in sugarcane field 	Ishurdi, Pabna
62	Performance of Insecticides Against Sugarcane Stem Borer	<ul style="list-style-type: none"> To evaluate the performance of selected insecticides against sugarcane stem borer and To compare the effectiveness of new insecticides 	Lalpur, Natore
63	Performance of Selected Cropping Patterns Under Date Palm Based (<i>Phoenix sylvestris</i>) Agro-Forestry Systems	<ul style="list-style-type: none"> To evaluate the performance of selected crops in association with date palm tress throughout the year To identify suitable cropping patterns to fit under date palm based agroforestry systems and To increase the productivity of date palm based cropping systems. 	Rajshahi

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AGRICULTURE ENGINEERING DIVISION			
Farm power and Machinery			
64	Design and development of a climber for date palm tree	<ul style="list-style-type: none"> To design and develop a mini sugarcane harvester To reduce harvesting cost in scarcity of farm labor and To make profitable cultivation of sugarcane 	Ishurdi, Pabna (BSRI workshop)
65	Design and development of a mini sugarcane harvester	<ul style="list-style-type: none"> Supplying disease free and healthy cane seeds (sets) to farmers and To maximize productivity as well as production of cane in minimum land area. 	Ishurdi, Pabna (BSRI Farm)
66	Design and development of mini MHAT plant for sugarcane seed treatment	<ul style="list-style-type: none"> Design and develop of 2W and 4W tractor mounted minimum tillage trencher for sugarcane cultivation and To evaluate the field performance of the minimum tillage trenchers for sugarcane cultivation for both the tractors 	Ishurdi, Pabna (BSRI Farm)
67	Design and development of 2w and 4w tractor mounted minimum tillage trenchers for sugarcane cultivation	<ul style="list-style-type: none"> Design and develop of 2W and 4W tractor mounted minimum tillage trencher for sugarcane cultivation and To evaluate the field performance of the minimum tillage trenchers for sugarcane cultivation for both the tractors 	Ishurdi, Pabna (BSRI Farm)
68	Performance evaluation of different tillage machinery for sustainable sugarcane cultivation	<ul style="list-style-type: none"> To evaluate the effect of different tillage machinery on yield and yield attribute characteristic of sugarcane and To find out the effect of tillage on soil physical property and To identify the economic tillage method for sugarcane production 	Ishurdi, Pabna (BSRI workshop and BSRI Farm)
Transfer of Technology			
69	Demonstration of BSRI developed technologies for sugarcane in mill and non-mill zone areas	<ul style="list-style-type: none"> Evaluating performance of BSRI power crusher for sugarcane in the farmer's place Evaluating performance of BSRI minimum tillage for sugarcane in the farmer's field, Evaluating performance of BSRI power weeder for sugarcane in the farmer's field, Evaluating performance of BSRI bud chip cutter for sugarcane in the farmer's field, Improving the workmanship of the machines/tools getting feedback from the demonstration, Creating interest among the farmers on 	Ishurdi, Pabna (BSRI HQ,) Mill and non-mill zones

Sl. No.	Research Title	Objective (s)	Location (S)
		<p>the use of these machines and</p> <ul style="list-style-type: none"> To stimulate local manufacturers for manufacturing these machines. 	
PATHOLOGY DIVISION			
Varietal Improvement			
70	Screening of sugarcane genotypes under ZYT-III, ZYT-II, ZYT-I, AYT, PYT and tissue culture derived clones to red rot	<ul style="list-style-type: none"> To identification and selection of the sugarcane genotypes having higher level of resistance against red rot disease To identification and selection of the sugarcane genotypes having higher level of resistance against red rot disease To Recommendation of new resistant varieties/tolerant clones for final release to the growers and to preserve in the gene bank for breeding purposes 	Ishurdi, Pabna and Thakurgaon
71	Screening of sugarcane genotypes to wilt disease	<ul style="list-style-type: none"> Identifying and selecting of the sugarcane genotypes having superior resistance to wilt disease and Recommending of new resistant varieties/tolerant clones for final release to the growers 	Ishurdi, Pabna and Thakurgaon
72	Screening of sugarcane genotypes under ZYT-III, II, I and AYT to smut disease	<ul style="list-style-type: none"> Identifying and selecting of the sugarcane germplasms having superior resistance to smut disease and Recommending of new resistant varieties/tolerant clones for variety development. 	Ishurdi, Pabna
73	Screening of sugarcane genotypes to pineapple disease	<ul style="list-style-type: none"> Identifying and selecting of the sugarcane germplasms having superior resistance to pineapple disease and Recommending of resistant varieties/tolerant clones for variety development 	Ishurdi, Pabna
74	Investigation on disease incidence of different genotypes of tropical sugarbeet in Bangladesh	<ul style="list-style-type: none"> Identifying and selecting of the sugarbeet genotypes having higher level of resistance/ tolerance against major diseases Recommending of new resistant varieties/tolerant genotypes of sugarbeet for final release to the growers 	Ishurdi, Pabna
Disease Management			
75	Performance of different sett treating chemicals in controlling sett rot disease of sugarcane	<ul style="list-style-type: none"> To Determination the performance of new chemicals over existing recommended sett treating fungicides in controlling sett rot disease of sugarcane and To Recommendation more fungicides in controlling sett rot disease of sugarcane 	Ishurdi, Pabna and Thakurgaon

Sl. No.	Research Title	Objective (s)	Location (S)
76	Exploring the suitable soaking time of sugarcane setts for chemical treatment	<ul style="list-style-type: none"> To Determination the suitable longer period of sett soaking with carbendazim fungicide and To find out the toxic effects if any for longer period of sett soaking with carbendazim fungicide 	Ishurdi, Pabna
77	Integrated management of sclerotium root rot of tropical sugarbeet through cultural, chemical and biological means	<ul style="list-style-type: none"> To Investigation of effective fungicides/bio-agents against <i>Sclerotium rolfsii</i> under field condition and To find out the appropriate control measures for sclerotium root rot of sugarbeet 	Ishurdi, Pabna
78	Integrated management of red rot of sugarcane through cultural, chemical and biological means	<ul style="list-style-type: none"> To find out the appropriate management practices of red rot diseases under field condition and To Find out an eco-friendly package against red rot management. 	Ishurdi, Pabna
79	Management of <i>Orobanche</i> in sugarcane cultivation	<ul style="list-style-type: none"> Finding the appropriate management practices of controlling orobanche parasite under field condition. Finding an eco-friendly package against orobanche parasite management. 	Faridpur Sugar Mill area
80	Effect of different fungicides in controlling leaf spot diseases of Sugarcane	<ul style="list-style-type: none"> To finding the appropriate management practices of controlling leaf spot disease. 	Ishurdi, Pabna
Seed Technology			
81	Production, quality control and distribution of disease free clean seed of sugarcane	<ul style="list-style-type: none"> To supply the disease free clean seeds for the requirement of different divisions of BSRI and out-station experiments To distribute the disease free clean seeds to the mills and non-mill zones for further multiplication and To minimize the disease incidence of sugarcane throughout the country. 	Ishurdi, Pabna Thakurgaon Rajshahi Chapai nawabganj Khagrachhari Rangamati and Banderban, Barishal Joypurhat jamalpur and Sirajganj
ENTOMOLOGY DIVISION			
Varietal Improvement			
82	Screening of selected sugarcane clones for possible resistance against some major pests in ZYT -I, II & III	<ul style="list-style-type: none"> Screening advance clones for possible resistance to top shoot borer, early shoot borer, rootstock borer, stem borer, pyrilla leaf hopper, black leaf hopper, scale insect, mealy bug, termites and white grubs 	Ishurdi, Pabna and Thakurgaon

Sl. No.	Research Title	Objective (s)	Location (S)
		<ul style="list-style-type: none"> Comparing selected clones with the standard varieties to fulfill the requirement of National Seed Board (NSB). 	
Pest Management			
83	Mass rearing of bio-agents to evaluate their field performance against major insect pests of sugarcrop	<ul style="list-style-type: none"> Production of mass quantity of bio-agents Maintaining bio-agents stock and Ensuring the availability of bio-agents for field release as a component of IPM 	Ishurdi, Pabna
84	Evaluation of new molecules for management of some major insect pests of sugarcane	<ul style="list-style-type: none"> Production of mass quantity of bio-agents and ensuring their availability for field release Maintaining bio-agents stock in the laboratory and Evaluating their field performance against major insect pests of sugarcrop. 	Ishurdi, Pabna
85	BIPM components for the management of stem borer of sugarcane	<ul style="list-style-type: none"> Comparing the effectiveness of new insecticides Documenting intensity of insect pests infestation against different insecticides Finding suitable and effective insecticides and Getting more chemical control measure for the farmers. 	Ishurdi, Pabna Thakurgoan Bhabanipur (Farm, NBSM Ltd, Natore) and Farmers plot
86	Bio-efficacy of insecticides and bio-rationals against the incidence of sugarcane scale insect	<ul style="list-style-type: none"> Finding the effective management practice(s) against stem borer Assessing of different management options and Monitoring of population abundance in different treatment regime. 	Ishurdi, Pabna and On- farm (Malonchi, Pabna)
87	Field validation of Bio-rational based management techniques in controlling Black leaf hopper of sugarcane	<ul style="list-style-type: none"> Finding effective management practices for sugarcane scale insect and Estimating the effects of scale insect on yield and sugar recovery. 	Ishurdi, Pabna Faridpur (FSM) and Panchagor (PSM)
88	Observation trial on Radiation biology and inherited sterility for control on sugarcane stem borer	<ul style="list-style-type: none"> Finding effective management practices against Black leaf hopper of sugarcane and Finding effective dose of insecticides against Black leaf hopper of sugarcane. 	Ishurdi, Pabna Jamalpur (ZSM) and Natore (NBSM)
89	Screening of different insecticides in controlling sugarbeet caterpillar	<ul style="list-style-type: none"> Managing of <i>Chilo tumidicostalis</i> through gamma radiation and Monitoring the population of <i>Chilo tumidicostalis</i> in different treatments 	AEC, Savar, Dhaka and Ishurdi, Pabna

Sl. No.	Research Title	Objective (s)	Location (S)
90	Development of integrated management approaches against sugarbeet caterpillar	<ul style="list-style-type: none"> Finding out suitable insecticides against sugarbeet caterpillar and Finding out alternative & cheaper insecticides against sugarbeet caterpillar. 	Ishurdi, Pabna
91	Effects of hookah water as Insecticide against major insect pests of chewing cane in hill districts	<ul style="list-style-type: none"> Finding the effective management practices and Monitoring of population abundance in different treatments. 	Ishurdi, Pabna
92	Treated water supply for colony management of Honeybee, <i>Apis mellifera</i>	<ul style="list-style-type: none"> Finding water requirement of colony throughout the year Finding types of water the prefer most. 	Ishurdi, Pabna (Entomology Division)
93	Management of Varroa mite in honeybee, <i>Apis mellifera</i> colonies	<ul style="list-style-type: none"> Development of effective management practice(s) against Varroa mite and Assessing of different management options 	Ishurdi, Pabna and On-farm (Honey Growers field Pabna)
AGRICULTURAL ECONOMICS DIVISION			
Socio-Economic and TOT			
94	Adoption and Profitability of BSRI Released Sugarcane Varieties at Farm Level in Selected Areas of Bangladesh	<ul style="list-style-type: none"> To know the level of adoption of BSRI released sugarcane varieties at farm level To estimate the profitability of BSRI released sugarcane varieties To estimate the factors affecting the yield of sugarcane; To evaluate the farmers attitude towards the cultivation of BSRI released sugarcane varieties; and To identify the constraints of BSRI released sugarcane varieties at farm level. 	Joypurhat (North Bengal and Pabna Sugar Mills zone)
95	Profitability Analysis of Chewing Sugarcane Cultivation in Southern Part of Bangladesh	<ul style="list-style-type: none"> To determine the profitability of chewing sugarcane To know the socio-economic condition of chewing sugarcane farmers To assess the technical efficiency of chewing sugarcane production and To identify the constraints of chewing sugarcane cultivation 	Patuakhali, Jhalokati and Barishal
96	Impact of Climatic Change on Sugarcane Production and Recovery in Bangladesh	<ul style="list-style-type: none"> To explore the trend of climate change To estimate the production trend, To analyze the effect of climate change on sugarcane production and To analyze the effect of climate change on sugar recovery 	Al over Bangladesh

Sl. No.	Research Title	Objective (s)	Location (S)
TRAINING AND TECHNOLOGY TRANSFER DIVISION			
Socio-Economics and Technology Transfer			
97	Adoption of Modern Sugarcane Production Technologies in Selected Sugar Mills and Non Mill Zones	<ul style="list-style-type: none"> To determine the extent of adoption of BSRI developed modern sugarcane production technologies in the sugar mills and non-mill zones; To assess sugarcane farmers knowledge on BSRI recommended sugarcane production technologies To identify the bottlenecks that retard adoption of modern sugarcane production technologies and To ascertain the differences in adoption of modern sugarcane production technologies between the growers of sugar mills and non-sugar mills zones. 	Mill Zone (TSM, NBSM and Carew & Co.) Non-Mill Zone (C. Nawabgonj, Gazipur and Bandarban)
98	Monitoring of Technology Based Subsidy Program in Sugarcane	<ul style="list-style-type: none"> To monitor, review and identify the gaps (if any) in implementing the subsidy based technology transfer program To identify the mid-term success to the govt./authority about the subsidy based technology transfer program ; and To establish a linkage between program planner and implementers. 	Fifteen Sugar Mills Zones of Bangladesh
99	Status of Sugarcane Cultivation Coverage in Selected Sugar Mills	<ul style="list-style-type: none"> To determine the actual acreage of sugarcane in different land type condition To identify the performance of BSRI released sugarcane varieties and local varieties; and To find out the problems faced by the farmers in cultivating sugarcane in low lying areas. 	PBSM NBSM NTSM, RSM and ZBSM
Training Program			
100	Modern Technologies of Sugar Crop Production for Agriculture Extension Officers of DAE (Non-mill zone) and Assistant Managers of BSFIC	<ul style="list-style-type: none"> To increase trainee's capacity to advise their subordinate extension workers as well as sugarcane growers (both mills and non-mill zones) on the modern sugar crop production technologies To support the participants for guiding the sugarcane growers to produce intercrops methodologically and To capacitate the trainee officers to advise the goor processors to produce quality goor hygienically. 	Ishurdi, Pabna
101	Modern Technologies of Sugar Crop Production for Sub Assistant Agriculture	<ul style="list-style-type: none"> To update the trainees for improvement of capacity to advise the sugar crop farmers on the modern sugar crop production technologies 	Ishurdi, Pabna

Sl. No.	Research Title	Objective (s)	Location (S)
	Officers (SAAO) of DAE and Sub Assistant Cane Development Officers (SACDO) of BSFIC	<ul style="list-style-type: none"> To enhance participants capacity to suggest the sugarcane farmers to produce intercrops methodologically; and To capacitate the trainee to provide efficient advise the goor processors to produce goor hygienically. 	
102	Modern Technologies of Sugar Crop Production for Cane Development Assistant (CDA) of BSFIC	<ul style="list-style-type: none"> To update the trainees for advising the sugar crop growers on the modern sugar crop production technologies; and To capacitate the participants for suggesting the sugarcane growers to produce intercrops methodologically 	Ishurdi, Pabna
103	Title: Improved Sugarcane and Intercrops Production Technologies for Sugarcane Farmers of Mills and Non-mill Zones	<ul style="list-style-type: none"> To update the model farmers on improved sugarcane and intercrops production technologies; and To capacitate the farmers for guiding other neighbour sugarcane farmers on improved sugarcane and intercrops production technologies. 	Ishurdi, Pabna Joypurhat Chuadanga, Rahmatpur (BSRI Sub-Stations) and Jamalpur, Sugar Mills and Different Locations in Non-Mill Zone
REGIONAL SUGARCROP RESEARCH STATION (RSRS) AND QUARANTINE STATION, GAZIPUR			
Crop Protection			
104	Quarantine Follow-Up of Imported Germplasms	<ul style="list-style-type: none"> To remain vigilant about the entry and introduction of new pathogens and insect pests carried along with the germplasms brought from abroad. 	Gazipur (Quarantine Station)
105	Quarantine Follow-Up of Local Germplasms	<ul style="list-style-type: none"> To remain vigilant about the entry and introduction of new pathogen or insect pests from one location to other carried along with the varieties/ clones during collection. 	Gazipur (Quarantine Station)
106	Maintenance of BSRI Released Sugarcane Varieties at Quarantine Station	<ul style="list-style-type: none"> Conserving the BSRI released sugarcane varieties for producing disease free seed cane for local use as well as foreign exchange. 	Gazipur (Quarantine Station)
REGIONAL SUGARCROP RESEARCH STATION (RSRS)			
Crop Improvement			
107	Ratooning Potentiality of Sugarcane Varieties at Madhupur Tract	<ul style="list-style-type: none"> To find out most suitable varieties having rationing potentiality at agro-ecological zone under Madhupur tract and Evaluating suitable sugarcane varieties for profitable cane cultivation through ratooning 	Gazipur (RSRS farm)
108	Screening of Sugarcane Genotypes for High Yield	<ul style="list-style-type: none"> Screening a high yielding sugarcane genotype 2. Identifying the high brix content sugarcane genotype 	Gazipur (RSRS farm)

Sl. No.	Research Title	Objective (s)	Location (S)
Crop Protection			
109	Survey on Pest Status and Incidence of Arabian Date Palm (<i>Phoenix Dactylifera</i>) Insect Pests at Gazipur Region	<ul style="list-style-type: none"> To find out and document Arabian date palm insect pest status at Gazipur region and To monitor severity and populations in individual tree to inform grower treatment decisions 	Gazipur (RSRS farm) Perugali, Gazipur
110	Evolution of Stem Borer Tolerant Sugarcane Genotypes through Radiation	<ul style="list-style-type: none"> Observing the level of infestation of stem borer in different sugarcane genotypes RSRS Farm Gazipur Screening sugarcane genotypes for possible tolerant against stem borer and Comparing tolerance among the selected genotypes against stem borer 	Gazipur (RSRS Farm)
111	Production Of Disease Free Clean Seed Cane	<ul style="list-style-type: none"> To introduce and extend disease free seeds of recommended varieties in non mill zone and To ensure disease free seed cane for experiment and demonstration purpose to be used by BSRI and DAE for next season. To motivate the farmers in adapting new varieties and accelerate its dissemination. 	Gazipur and Vawal Mirzapur (On-farm)
Training			
112	Farmer's Training		Gazipur Mymensingh Munsigonj and Manikgonj
113	SAAO Training		Gazipur and Norshindi
REGIONAL SUGARCROP RESEARCH STATION (RSRS) THAKURGAON			
Varietal improvement			
114	Performance of BSRI Bred Sugarcane Varieties under Water-Logging and Flood Stress Condition at Northern Region of Bangladesh	<ul style="list-style-type: none"> To select sugarcane varieties with superior tolerance to water- logging and flood stress condition and To find out morphological and physiological basis for water-logging and flood tolerance to sugarcane 	Panchagarh (Atowary and Boda)
115	Yield Performance of Latest Sugarcane Varieties Grown in Different Locations in Old Himalayan	<ul style="list-style-type: none"> Selecting suitable latest varieties for increasing the yield and quality of sugarcane in AEZ I and and AEZ II and Increasing farmers' earning through latest sugarcane cultivation. 	TSM PSM STSM and SHSM

Sl. No.	Research Title	Objective (s)	Location (S)
	Piedmont Plan and Active Tista Floodplain Soils		
116	Ratooning Potentiality of BSRI Bred Newly Released Sugarcane Varieties in Different Locations of Old Himalayan Piedmont Plan and Active Tista Floodplain Soil	<ul style="list-style-type: none"> To screen out the ratooning potentiality of BSRI released varieties for AEZ I and AEZ II To popularize ratooning practice in AEZ I and AEZ II 	TSM PSM STSM and SHSM
Crop and soil management			
117	Productivity of Sugarcane with Winter Crops as First and Maize as Second Intercrop in Single and Paired Row Planting Systems	<ul style="list-style-type: none"> To find out the suitable intercropping combination with maize in sugarcane AND To increase productivity and interim economic benefit per unit area and time in sugarcane field. 	Thakurgaon (RSRS)
118	Performance of Groundnut as Intercrop with Sugarcane in Single and Paired Row Planting System	<ul style="list-style-type: none"> To assess the productivity of groundnut as intercrop with sugarcane in single and paired row planting system and To popularize groundnut as intercrop with sugarcane 	Thakurgaon (RSRS)
119	Intercropping of Fodder Crops With Sugarcane	<ul style="list-style-type: none"> Finding out the suitable fodder crop as intercrop with sugarcane and Estimating economic profitability of fodder crop intercropping with sugarcane 	RSRS, Thakurgaon
120	Effects of Liming and Plant Growth Regulators on Growth, Yield and Quality of Stevia	<ul style="list-style-type: none"> To investigate growth dynamics and yield potential of stevia using lime and PGRs in acid piedmont soils at Northwest region of Bangladesh and To assess the soil nutrient content changes under different levels of liming and PGRs during stevia cultivation 	Thakurgaon (RSRS)
121	Influence of Different Planting Methods and Spacing on Plant and Ratoon Crops of Stevia in Old Himalayan Piedmont Plain Soils	<ul style="list-style-type: none"> To find out the best cultivation method of stevia To find out the suitable row spacing of stevia and To investigate growth dynamics and yield potential of stevia under different cultivation methods 	Thakurgaon (RSRS)
122	Productivity of Sequential Intercropping and Relay Cropping of	<ul style="list-style-type: none"> To sustain sugarcane cultivation through producing more short duration crops from the same land and To increase economic return from 	Thakurgaon (RSRS)

Sl. No.	Research Title	Objective (s)	Location (S)
	Two Short Duration Crops with Sugarcane in Single Row Planting System	sugarcane farming	
Socio-Economics and Technology Transfer			
Training			
123	Farmers training course		Thakurgaon, Panchagarh, Setabganj and Shampur
124	CDAs/ training course		Thakurgaon (RSRS)
125	SAAO training course		Thakurgaon (RSRS)
JOYPURHAT (BSRI SUB-STATION)			
Crop and soil management			
126	Performance of some BSRI recommended sugarcane varieties as plant and ratoon crop in Tista Meander Floodplain soil	<ul style="list-style-type: none"> To select suitable sugarcane varieties in Tista Meander Floodplain Soil and To study the comparative performance of different latest sugarcane varieties 	Vadsha and Dholahar
127	Selection of sugarcane clone as juice variety	<ul style="list-style-type: none"> Selecting sugarcane juice variety 	Kahalu, Bogura
128	Sequential intercropping of potato-mungbean-taro with sugarcane	<ul style="list-style-type: none"> Investigating the feasibility of taro as third intercrop with sugarcane in Joypurhat and Developing triple intercropping package for higher crop yield with interim benefit to Farmers 	Joypurhat
RAJSHAHI (BSRI SUB-STATION)			
Crop production and Management			
129	Field Performance of Some Newly Released Sugarcane Varieties and their Ratooning Potentiality in Mill Zones	<ul style="list-style-type: none"> To observe the suitability of BSRI recommended varieties in RJSM areas To select the good ratooner varieties for this area and To study the comparative performance of different latest varieties 	Rajshahi
130	Performance of Different Winter Crops with Single Row of Chewing Cane	<ul style="list-style-type: none"> To find appropriate intercrop for higher crop yield with interim benefit for Rajshahi area To study the suitability of Chewing cane with different winter crops combination for higher economic benefit and To sustain sugarcane cultivation ensuring higher production and maximum profit through cultivation of intercrops 	Rajshahi

Sl. No.	Research Title	Objective (s)	Location (S)
131	Performance of Newly Released Sugarcane Varieties in Char Lands of Rajshahi	<ul style="list-style-type: none"> To find out the performance of BSRI released varieties in the Char land of Rajshahi. To identify suitable BSRI released varieties for location specific recommendation and To find out the economic profitability of BSRI released varieties in the Char land of Rajshahi. 	Rajshahi (Char land)
132	Selection of Suitable Sugarcane Varieties for Goor Production in Chapai Nawabganj District	<ul style="list-style-type: none"> Evaluating the performance of BSRI released sugarcane varieties in non- mill zone and Recommending the location specific sugarcane varieties for goor production 	Sibganj, Chapai Nawabganj
Technology Transfer			
Training			
133	Farmers Training		Mill Zone and Non Mill Zone of Rajshahi
CHUADANGA (BSRI SUB-STATION)			
Crop Improvement			
134	Evaluation of Ratoon Potentiality of Some Newly Released Cane Varieties under AEZ 11	<ul style="list-style-type: none"> To find out the best ratoon varieties in AEZ 11 	Chuadanga (Two locations)
Crop Production			
135	Performance of Different High Value Rabi Crops-Summer Coriander Sequential intercropping with Sugarcane in AEZ 11	<ul style="list-style-type: none"> To find out the suitable rabi crop as first intercrop with sugarcane for obtaining higher economic return at farmer level in AEZ 11 and To investigate the feasibility of summer coriander as second intercrop with sugarcane 	Chuadanga (Two locations)
Seed Technology			
136	Production and Distribution of Disease Free Clean Seed of Sugarcane	<ul style="list-style-type: none"> Producing disease free clean seed and supplying to meet up the requirement of mill areas and Reducing the disease incidence throughout the mill zone 	Jibonnagar and Damurhuda
Technology Transfer			
Farmer's Training			
137	Modern Technology of sugarcane Cultivation		Mill zone

Sl. No.	Research Title	Objective (s)	Location (S)
RAHMATPUR, BARISAL (BSRI SUB-STATION)			
138	Selection of Sugarcane Varieties Suitable for Goor Production in Saline Belt under Southern Region	<ul style="list-style-type: none"> To select suitable cane varieties with high yield and recovery for goor production in saline belt of southern region. 	Pathorghata, Barguna
Crop and Soil Management			
139	Performance of Chewing Varieties in Saline Belt Under Southern Region	<ul style="list-style-type: none"> To select suitable cane varieties for chewing in saline area of southern region and To popularize chewing varieties in saline area of southern region. 	Barisal
140	Effect Of Tidal Water On Growth and Yield Of Sugarcane In Southern Region Of Bangladesh	<ul style="list-style-type: none"> Selecting the suitable cane varieties for tidal and disaster prone area under southern region and Popularizing the BSRI varieties in coastal belt under southern region 	Patuakhali
141	Effect Of Different Planting Methods and Seedling Age On Growth and Yield Of Tropical Sugarbeet	<ul style="list-style-type: none"> Reducing the crop duration in the field and Selecting suitable method for sugarbeet cultivation 	Barisal (Sub-station)
142	Efficacy of organic materials on sugarcane varieties in practicing organic farming	<ul style="list-style-type: none"> Selecting the suitable combination for better yield without use of chemical pesticides and fertilizer. 	Rahmatpur, Barishal (Substation)
143	Sugarcane Based Integrated Farming in Sorjon System Under Southern region	<ul style="list-style-type: none"> Increasing sugarcane productivity through Sorjan system and To popularize sugarcane based Sorjan farming under southern region 	Rahmatpur, Barishal (Substation)
JAMALPUR (BSRI SUB-STATION)			
Crop and Soil Management			
144	Effect of Vermicompost on Sugarcane Yield and Carbon Accumulation in Soils	<ul style="list-style-type: none"> To quantify the effect of vermicompost on sugarcane growth and yield and To determine the carbon accumulation in soils from vermicompost application. 	Jamalpur and Fulbaria (Mymensingh)
145	Performance of Different Intercrops with Sugarcane in Paired Row System	<ul style="list-style-type: none"> Selecting suitable intercrops for sequential intercropping in paired row sugarcane and Studying the effect of sequential intercropping on growth, yield and quality of sugarcane. 	Jamalpur and Sherpur (Nakla and Dobarchar)
Varietal Improvement			
146	Performance of Some Selected Variety of Sugarcane Suitable for Goor Production	<ul style="list-style-type: none"> Finding out suitable sugarcane varieties for goor production and To identify the potentiality of these variety for yield and goor production as plant cane 	Nakla, Sherpur

Sl. No.	Research Title	Objective (s)	Location (S)
CHUNARUGHAT, HOBIGONJ (BSRI SUB-STATION)			
Varietal Improvement			
147	Ratooning Potentiality of BSRI Bred Newly Released Sugarcane varieties at Akhaura Terrace	<ul style="list-style-type: none"> • Determining the ratooning potentiality of BSRI newly released sugarcane varieties and • Popularizing the ratooning practice at Akhaura Terrace 	Chunarughat (Gorgao Ladia and Raki)
148	Yield Performance of BSRI Bred Newly Released Sugarcane Variety for Goor Production at Akhaura Terrace	<ul style="list-style-type: none"> • To find out suitable sugarcane varieties for goor production from plant cane in this area and • To identify the potentiality of these variety for yield and goor production as plant cane 	Gorgao and Ladia, Chunarughat
Crop and Soil Management			
149	Effect of Winter Crops as First Intercrops and Yardlong bean as Second Intercrop on Growth, Yield and Quality of Chewing Cane at Akhaura Terrace	<ul style="list-style-type: none"> • Finding out the effect on growth, yield and quality of chewing cane with intercrops and • Maximizing the productivity and economic return from chewing cane 	Amkandi, Chunarughat
SIRAJGONJ (BSRI SUB-STATION)			
Varietal Improvement			
150	Performance of some newly released BSRI bred sugarcane varieties as plant and ratoon cane under AEZ 4	<ul style="list-style-type: none"> • Studying the performance of newly released BSRI sugarcane varieties at non mill zone. • Identifying the suitable newly released sugarcane varieties for specific location purposes and • Screening the ratooning potentiality of BSRI released sugarcane varieties. 	Sirajgonj (2)
Crop and Soil Management			
151	Performance of BSRI bred sugarcane varieties under flood stress condition at char land in Sirajgonj	<ul style="list-style-type: none"> • Identifying the sugarcane varieties suitable for Jamuna char land in flood stress condition and • Popularising the flood stress tolerant varieties among the farmers in Sirajgonj. 	Sirajgonj (3)
Crop Production			
152	Effect of detraghing on growth, yield and quality of sugarcane under AEZ 4	<ul style="list-style-type: none"> • Finding out the effects of detraghing on growth and yield of sugarcane • Identifying the appropriate time of detraghing for sugarcane cultivation and • Determining the quality of cane 	Sirajgonj (2)

BANGLADESH WHEAT AND MAIZE RESEARCH INSTITUTE

BANGLADESH WHEAT AND MAIZE RESEARCH INSTITUTE

Sl. No	Research Title	Objective (s)	Location (s)
REEDING DIVISION			
Wheat Variety Development			
1	Hybridization	<ul style="list-style-type: none"> • Transfer desirable traits from donor parents to the recipient parent with good agronomic background targeting to develop high yield potential, disease resistant variety with wide adaptation 	Dinajpur Joydebpur and Jamalpur.
2	Confirmation of single and top crosses	<ul style="list-style-type: none"> • Confirming hybrids derived from crosses between two different parents and • Generation of F₂ seeds and making top and back crosses utilizing F₁ plants 	Dinajpur Gazipur and Jamalpur
3	Selection in F ₂ to F ₆ generations	<ul style="list-style-type: none"> • Ensuring fixation of desirable additive genes in the advancing filial generations • Select desirable families/individual plants in each filial generation following selected bulk method and • Reaching homozygosity / stability after hybridization 	Dinajpur Joydebpur Jashore Jamalpur and Rajshahi
4.	Germplasm Maintenance	<ul style="list-style-type: none"> • Evaluating lines from different • national and international sources • Maintaining promising lines and preserve for future use 	Dinajpur
5.	Bangladesh wheat screening nursery, Set I (BWSN-I)	<ul style="list-style-type: none"> • To Evaluating all selected advanced lines from national crossing programme for high yield potential with biotic and abiotic stress tolerance and • Selecting promising lines for evaluation in preliminary yield trial 	Dinajpur Jashore and Gazipur
6.	Bangladesh wheat screening nursery, Set II (BWSN-II)	<ul style="list-style-type: none"> • Evaluating all selected genotypes/lines from different national and international nurseries for high yield potential and • Selecting promising lines for evaluation in preliminary yield trial 	Dinajpur Jamalpur and Rajshahi
7.	Preliminary Yield Trial (PYT)	<ul style="list-style-type: none"> • Evaluating yield potential of the promising lines selected from BWSN under different agro climatic conditions and • Selecting promising lines for • Advance Yield Trial 	Dinajpur Jashore and Rajshahi
8	Advance Yield Trial (AYT)	<ul style="list-style-type: none"> • Evaluating yield potential of the advance lines under different locations and • Selecting promising lines for evaluation in Candidate Variety Demonstration 	Dinajpur Joydebpur Jashore Jamalpur and Rajshahi
9	Candidate Variety Demonstration (CVD)	<ul style="list-style-type: none"> • Evaluating performances of the promising advance lines in large plots and • Selecting candidate varieties for on farm and on station multi-location testing. 	Dinajpur and Jashore

Sl. No	Research Title	Objective (s)	Location (s)
10	Distinctness, uniformity and stability (DUS) Test	<ul style="list-style-type: none"> • Studying the identifying characters of advance lines before release • Studying the uniformity and stability of the identifying characters and • Establishing distinctness of the candidate varieties from the existing varieties with at least one character 	Dinajpur and Gazipur (SCA)
11	Adaptive trial with advance wheat lines at MLT sites	<ul style="list-style-type: none"> • To see the yield of new wheat lines in comparison to the widely grown check variety in different agro-ecological zones and • Evaluate the advance lines by the field evaluation committee of the National Seed Board (NSB). 	Dinajpur Rajshahi Jashore Jamalpur Gazipur and Tangail
12	On-station demonstration (OSD)	<ul style="list-style-type: none"> • Demonstrating wheat varieties to the visitors under optimum and late seeding conditions 	Dinajpur Gazipur, Jamalpur, Rajshahi
13	Genetic gain of wheat varieties in Bangladesh	<ul style="list-style-type: none"> • To compare the yield performance of recently released wheat varieties with previous mega varieties 	Dinajpur
14	7 th Early heat tolerance wheat screening nursery (7 th EHTWSN)	<ul style="list-style-type: none"> • Evaluating selected promising genotypes for early heat tolerance and high yield potential in early seeding and • Selecting promising lines for inclusion in preliminary yield trial and/or using as parent 	Dinajpur and Rajshahi
15	Heat tolerant wheat yield trial (HTWYT)	<ul style="list-style-type: none"> • Evaluating selected promising genotypes for late heat tolerance and high yield potential in late seeding. 	Dinajpur, Gazipur and Jashore
16	7 th Drought Tolerant Wheat Yield Trial (7 th DTWYT)	<ul style="list-style-type: none"> • To evaluate new exotic lines against drought under Bangladesh condition and • To identify the appropriate germplasm tolerant to drought stress 	Rajshahi
17	Evaluation of drought tolerant advanced lines in Barind area	<ul style="list-style-type: none"> • To identify the appropriate elite genotypes that tolerant to drought stress environment. 	Rajshahi (On-station), Saphahar, Godagari
18	Production of wheat double haploids	<ul style="list-style-type: none"> • To develop immediate homozygosity of segregated lines. To reduce breeding time for variety release and • To improve efficacy and efficiency in screening for resistance. 	Gazipur Biotechnology Division lab and Green house, Gazipur
19.	Screening of wheat double haploid lines	<ul style="list-style-type: none"> • To screen and evaluate wheat double haploid lines developed from wheat x maize crossing. 	Dinajpur and Gazipur

Sl. No	Research Title	Objective (s)	Location (s)
20.	Molecular characterization of wheat advance lines using SSR markers	<ul style="list-style-type: none"> To study genetic variation among wheat varieties using chromosome specific SSR markers and To find genetically most diverse genotypes of wheat which can further be used in hybridization programs to create genetically diverse germplasm. 	Dinajpur
21.	Molecular screening of blast resistance wheat genotypes using 2NS markers	<ul style="list-style-type: none"> Identification of new sources of resistance to wheat blast. 	Dinajpur (Breeding lab. of BWMRI)
22.	Selection of blast resistant individuals from different filial generations through MAS	<ul style="list-style-type: none"> To select blast resistant individuals in different filial generation (F₁ to F₆) using 2NS primers. 	Dinajpur (Breeding lab. of BWMRI)
23.	Improving drought tolerance using marker-assisted recurrent selection	<ul style="list-style-type: none"> To develop and deliver wheat varieties to the wheat growers with enhanced levels of tolerance to drought stress controlled by many minor genes and QTLs. 	Rajshahi (RWRC)
24.	Development of blast resistant/tolerant variety	<ul style="list-style-type: none"> To develop blast resistant/tolerant variety through 2NS and Non 2NS crossing. 	Dinajpur
25.	Confirmation and evaluation of 2NS X Non 2NS and 2NS X 2NS F ₁ in Jashore	<ul style="list-style-type: none"> To confirm the crosses, generate F₂ seeds and making top and back crosses utilizing the F₁ populations. 	Jashore, and Dinajpur
26.	Accelerating wheat breeding program through cutting-edge genomics and phenomics technologies	<ul style="list-style-type: none"> Early generation selection for grain yield and quality using genomic prediction and high-throughput phenotyping in the wheat breeding program Improved prediction models for multi-environment predictions within national programs and Increased breeding capacity of national wheat breeding programs. 	Jamalpur Jashore and Dinajpur
27.	Improving wheat blast resistance and/or tolerance using marker-assisted recurrent selection	<ul style="list-style-type: none"> To develop and deliver wheat varieties to the wheat growers with enhanced levels of resistance and tolerance to wheat blast controlled by many minor genes and QTLs. 	Rajshahi and Jashore
28	Double haploid in wheat blast breeding	<ul style="list-style-type: none"> To achieve homozygous pure line in one generation compared to 6 to 7 generations required by the traditional system of breeding To develop wheat varieties, particularly blast resistant varieties very quickly, in 5 to 6 years, compared to more than 8 years required by the traditional methods. To use doubled haploids in basic important genetic studies. 	Rajshahi,

Sl. No	Research Title	Objective (s)	Location (s)
29.	Evaluation of selected blast resistant line in PPP	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Jashore
30.	Elite Spring Wheat Yield Trial (40 th ESWYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Dinajpur
31.	International Bread Wheat Screening Nursery (52 nd IBWSN)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Dinajpur
32.	High Temperature Wheat Yield Trial (18 th HTWYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Dinajpur, Gazipur and Jashore
33.	Semi-arid Wheat Yield Trial (27 th SAWYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Rajshahi
34.	Semi-arid Wheat Screening Nursery (37 th SAWSN)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Rajshahi
35.	Wheat Yield Consortium Yield Trial (8 th WYCYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Rajshahi Dinajpur and Gazipur
36.	2 nd Collaborative Wheat Yield Trial (2 nd CWYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Rajshahi Dinajpur and Gazipur
37.	Stress Adaptive Traits yield Nursery (9 th SATYN)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Gazipur Dinajpur and Rajshahi
38.	Harvest Plus Yield Trial (10 th HPYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Gazipur and Dinajpur
39.	Harvest Plus South Asia Nursery (11 th HPAN)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Gazipur
40.	19 th South Asian Bread Wheat Genomic Prediction Yield Trial (19 th SABWGPYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Jamalpur Dinajpur and Jashore
41.	27 th (High Rainfall Wheat Yield Trial (27 th HRWYT)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Gazipur
42.	International Durum Yield Nursery (51IDYN)	<ul style="list-style-type: none"> To select blast resistant/tolerant lines for utilizing in BWMRI breeding programme 	Dinajpur
43	6 th Zinc-enrich wheat yield trial (6 th ZnWYT)	<ul style="list-style-type: none"> To evaluate the potentiality of developing bio-fortified wheat line(s) & to identify promising genotypes with higher levels of Zinc content 	Dinajpur, Gazipur and Jamalpur

Sl. No	Research Title	Objective (s)	Location (s)
44	PVS: Mother and baby trials and informal seed dissemination	<ul style="list-style-type: none"> • Demonstrating the performance of the rust resistant promising advanced lines and new varieties to the farmers under their own management conditions • Providing scope to the farmers for selecting the varieties/lines suitable for their own socio-economic conditions • Exploit G x E interaction by growing genotypes in diverse production environments to increase selection efficiency and • Enhancing seed production and dissemination at farmers' level. 	Dinajpur Jashore and Rajshahi
45	Durum Yield Trial (DYT)	<ul style="list-style-type: none"> • Selection of promising durum lines for higher grain yield and • Advancing promising durum lines for further improvement 	Dinajpur
46	Triticale Yield Trial (TYT)	<ul style="list-style-type: none"> • To identify genotypes with good adaptation and • Selecting promising triticale lines for both forage and grain 	Dinajpur
47.	Maintenance of First- and Second-Year Lines of Recommended Varieties	<ul style="list-style-type: none"> • To maintain purity of nucleus seeds of newly released varieties and • To produce pure seeds for breeder seed production 	Dinajpur
48	Breeder seed production of recommended wheat varieties	<ul style="list-style-type: none"> • To produce breeder seed for BADC and private enterprises. 	Debiganj Thakurgaon Rajshahi Dinajpur and Rajbari
49	Multiplication of pre-released wheat varieties	<ul style="list-style-type: none"> • To produce good quality seeds for using in up-scaling • To multiply seeds of pre-release varieties for quick dissemination soon after release and • To quick replacement of old varieties 	Dinajpur
50	Seed increase of recommended varieties and the lines included in the nurseries and trials of wheat, triticale and durum	<ul style="list-style-type: none"> • To produce good quality seeds for use in the nurseries/ yield trials for next year experiments and demonstrations. 	Dinajpur Debiganj Rajshahiand Joydebpur and Jamalpur
51.	Wheat variety/line screening in saline area	<ul style="list-style-type: none"> • Select the suitable wheat varieties/lines for saline areas and • Identify and select sources of resistance. 	Patuakhali Shatkhira (On-station and On-Farm)

Sl. No	Research Title	Objective (s)	Location (s)
Maize Improvement Program			
52	Maintenance and characterization of local and new exotic inbred lines of maize (7 sets)	<ul style="list-style-type: none"> To characterize, maintain and evaluation of newly developed inbred lines 	Dinajpur and Joydebpur
53	Development of base population in popcorn and field corn (2 Sets)	<ul style="list-style-type: none"> To develop source population of popcorn and field corn for the production of desirable elite/superior inbred lines locally 	Dinajpur
54	Extraction of different single colored maize from its' mixer (7 Sets)	<ul style="list-style-type: none"> To develop different single colored cobs for its genetic study, conserve germplasm and also for ornamental purpose. 	Dinajpur
55	Advancing S ₀ to S ₁ generation of maize	<ul style="list-style-type: none"> To extract elite/superior inbred lines locally 	Dinajpur
56	Advancing S ₆ to S ₇ generation of field corn	<ul style="list-style-type: none"> To extract superior inbred lines locally 	Dinajpur
57	Evaluation of pro-vitamin A enriched inbred lines of field corn through line × tester method (2 Sets)	<ul style="list-style-type: none"> To test the GCA of the inbred lines and SCA of crosses and selection of desirable best cross(es) and To find out heterotic patterns and heterotic partners of inbred lines. 	Dinajpur
58	Study of combining ability and heterosis in field corn	<ul style="list-style-type: none"> To study general combining ability (gca) of parents, specific combining ability (sca) effects of the crosses and To estimate standard heterosis and selection of better cross (es). 	Dinajpur
59	Evaluation of inbred lines of field corn through line × tester method (4 Sets)	<ul style="list-style-type: none"> To test the GCA of the inbred lines and SCA of crosses and selection of desirable best cross(es) and To find out heterotic patterns and heterotic partners of inbred lines. 	Gazipur Jashore and Dinajpur
60	Evaluation of locally developed test cross maize hybrids	<ul style="list-style-type: none"> To test the performance of locally developed single cross hybrid(s). 	Dinajpur
61	Study of combining ability and heterosis in field corn over location (2 Sets)	<ul style="list-style-type: none"> To study general combining ability (gca) of parents, specific combining ability (sca) effects of the crosses and To estimate standard heterosis and selection of better cross (es). 	Gazipur Dinajpur Jashore and Burirhat
62	Evaluation of promising hybrids of field corn and baby corn hybrids at different agro-ecological regions (5 sets)	<ul style="list-style-type: none"> To test the performance of locally developed single cross hybrids at different agro-ecological zones in Bangladesh and select widely adapted hybrids. 	Gazipur Dinajpur Jashore Rahmatpur Burirhat Hathazari and Jamalpur

Sl. No	Research Title	Objective (s)	Location (s)
63	Large plot observation trial of maize	<ul style="list-style-type: none"> To observe the performance of locally developed of hybrids in large plot. 	Jashore Joydebpur\ Dinajpur Jamalpur and Hathazari
64	Evaluation of dwarf and lodging tolerant maize experimental hybrids	<ul style="list-style-type: none"> To identify better performing dwarf and lodging tolerant hybrids. 	Joydebpur Dinajpur and Hathazari
65	Evaluation of excess soil moisture tolerant single cross experimental maize hybrids	<ul style="list-style-type: none"> To find out better performing hybrids in excess soil moisture. 	Joydebpur and Dinajpur
66	Phenotyping of the HTMA hybrids under heat stress (16 Sets)	<ul style="list-style-type: none"> To develop high-yielding and heat tolerant maize hybrids and To compare the performances of test crosses under optimal and heat Stress condition. 	Dinajpur and Jashore
67	Seed Production of single cross field corn hybrids through diallel mating design (2 sets)	<ul style="list-style-type: none"> To produce test cross hybrids for evaluation of inbred lines and To find out heterotic patterns and heterotis patterns of inbred lines 	Dinajpur and Gazipur
68	Seed Production of single cross field corn hybrids through diallel mating design (2 sets)	<ul style="list-style-type: none"> To increase hybrid seeds of selected promising hybrids for their testing in multilocation trial 	Dinajpur and Jashore
69	Seed Production of selected single cross hybrids of short stature, lodging tolerant, heat tolerant, excess soil moisture and saline tolerant maize (7 Sets)	<ul style="list-style-type: none"> To increase hybrid seeds of last year and previously selected crosses in each set and To observe the performance of the hybrids in different locations. 	Dinajpur Gazipur and Jashore
70	Seed production of selected promising hybrids of field corn, popcorn and baby corn in isolation (6 Sets)	<ul style="list-style-type: none"> To maintain purity of the parental lines and hybrids and To produce and increase of pure seeds of the parental lines of BARI maize hybrids for future use 	Dinajpur Narsingdi Bogura Sherpur Debigonj and Ishwardi.
71	Maintenance and seed increase of the parental lines of BARI maize hybrids	<ul style="list-style-type: none"> To maintain purity of the parental lines and hybrids and To produce and increase of pure seeds of the parental lines of Promising maize hybrids for future use 	Dinajpur

Sl. No	Research Title	Objective (s)	Location (s)
72	Maintenance and seed increase of the parental line of Promising maize hybrids	<ul style="list-style-type: none"> To maintain purity of the parental lines and hybrids and To produce and increase of pure seeds of the parental lines of Promising maize hybrids for future use 	Dinajpur
73	Validation trial of BARI maize hybrids through DAE	<ul style="list-style-type: none"> To observe the performance of locally developed hybrids at farmers' field. 	Jamalpur Jashor Dinajpur Thakurgaon Rangpur Rajshahi Faridpur Barishal and Cumilla
74	Field days on the performance of BARI maize hybrids	<ul style="list-style-type: none"> To popularize BARI maize hybrids among the farmers and private agencies. 	12 field days at Different locations.
75	Training / Conference / Workshop	<ul style="list-style-type: none"> To train-up scientists, BADC & DAE officers, NGO and different Seed company personnels, field staff on molecular technology, seed production and hybrid maize production technology. 	Rajshahi Regions Gazipur Jamalpur Jessore Rangpur and Hathazari.
CROP AND SOIL MANAGEMENT (AGRONOMY AND SOIL SCIENCE DIVISION)			
76	Long-term bed planting trial for improving crop and soil productivity in rice-wheat-mungbean cropping pattern	<ul style="list-style-type: none"> Increasing cropping intensity and soil fertility Determining N-use efficiency and Creating a suitable cropping pattern within the rice-wheat system, and Study the profitability of this pattern. 	Rajshahi
77	Effect of different tillage options and residue management on productivity of wheat-maize-rice cropping pattern	<ul style="list-style-type: none"> Examining the productivity of wheat-maize-rice cropping pattern under different CA practices and Changing in soil properties due to shifting from conventional to CA practices. 	Rajshahi
78	Effect of different tillage options with recently released varieties for sustainable Crop Production in Wheat-Maize-Rice Cropping Pattern	<ul style="list-style-type: none"> To observed the performance of different tillage options on wheat-maize-rice cropping pattern and To get sustainable potential yield in that systems 	Rajshahi

Sl. No	Research Title	Objective (s)	Location (s)
79	Increasing wheat yield through integrated management	<ul style="list-style-type: none"> To improve existing management technologies for boost up wheat yield To increase wheat yield and To increase wheat production of Bangladesh 	Dinajpur and Jamalpur
80	Evaluation of different herbicides to control weeds in maize field	<ul style="list-style-type: none"> To find out a suitable herbicide for Maize To determine the efficiency of different herbicides 	Dinajpur
81	Development of fertilizer recommendation for hybrid maize in Kharif season	<ul style="list-style-type: none"> To find out the optimum and economic fertilizer dose for kharif maize and To sustain the soil fertility and productivity 	Dinajpur
82	Integrated fertilizer management on soil fertility and productivity of Wheat -T. Aus-T. Aman cropping pattern	<ul style="list-style-type: none"> To find out a suitable combination of vermicompost with chemical fertilizers for growth and yield of wheat, and To sustain the soil fertility and productivity 	Dinajpur
83	Study the performance of some selected wheat genotypes in southern Bangladesh	<ul style="list-style-type: none"> To observe the yield performance of wheat genotypes in saline soils 	Patuakhali Khulna and Satkhira
84	Response of newly evolved wheat varieties to sowing dates	<ul style="list-style-type: none"> To examine the impact of inter- and intra-seasonal temperature variation on wheat performance stability and To identify suitable wheat genotypes for appropriate sowing dates considering agronomic performance, yield response, disease incidence, etc. 	Dinajpur and Rajshahi, Jashore
85	Screening of wheat genotypes against salinity at seedling stage	<ul style="list-style-type: none"> To select the wheat genotypes tolerant to salinity 	Gazipur
86	Weed management of Wheat-Mungbean-Rice cropping pattern in CA at drought prone Rajshahi region	<ul style="list-style-type: none"> To find out the effective and sustainable weed control measurements on CA and To get sustainable potential yield for controlling weeds under CA 	Rajshahi
87	Effect of fertilizer doses with biochar on soil fertility and crop productivity of wheat-maize-rice cropping pattern in drought prone area	<ul style="list-style-type: none"> To determine the optimum doses of wheat-maize-rice cropping pattern with Biochar application and To evaluate the effect of biochar to improving the system productivity and To study the change in soil properties over time in the intensified cropping pattern 	Rajshahi
88	Development of fertilizer recommendation for hybrid maize in Kharif season	<ul style="list-style-type: none"> To find out the optimum and economic fertilizer dose for kharif maize and To sustain the soil fertility and productivity 	Dinajpur

Sl. No	Research Title	Objective (s)	Location (s)
89	Effect of time and pattern of leaf cutting on maize yield	<ul style="list-style-type: none"> To determine the effects of different times of leaf cutting on maize yield and To investigation the role of any part of canopy leaves 	Dinajpur
90	Effect of different doses of vermicompost in combination with chemical fertilizers in a Wheat-Maize-T. aman rice cropping pattern	<ul style="list-style-type: none"> Evaluating the impact of different doses of vermicompost with chemical fertilizers on crop growth and yield. 	Rajshahi
91	Long-term effect of organic manure and chemical fertilizer in Wheat-Maize-Rice cropping pattern	<ul style="list-style-type: none"> Examining the productivity of Wheat-maize-rice cropping pattern and Changing in soil properties due to organic manuring 	Gazipur
PATHOLOGY DIVISION			
92	Evaluation of wheat germplasm against Bipolaris leaf blight under field condition	<ul style="list-style-type: none"> To find out resistant/tolerant lines of wheat against Bipolaris leaf blight under natural disease development. 	Dinajpur, Jamalpur and Jashore
93	Evaluation of wheat genotypes for resistance to Bipolaris leaf blight under inoculated condition	<ul style="list-style-type: none"> To evaluate adult plant resistance of wheat genotypes against Bipolaris leaf blight under induced disease pressure. 	Dinajpur
94	Evaluation of wheat genotypes for resistance to leaf rust under inoculated condition	<ul style="list-style-type: none"> To evaluate adult plant resistance of wheat genotypes against leaf rust under induced disease pressure. 	Dinajpur
95	Efficacy of fungicides in controlling Bipolaris leaf blight of wheat	<ul style="list-style-type: none"> To evaluate the efficacy of some new fungicides in controlling BpLB of wheat. 	Dinajpur
96	Efficacy of fungicides in controlling leaf rust of wheat	<ul style="list-style-type: none"> To evaluate the efficacy of some new fungicides in controlling leaf rust of wheat. 	Dinajpur
97	Adaptation of wheat genotypes for tolerance to terminal heat stress and Bipolaris leaf blight	<ul style="list-style-type: none"> To assess the individual and combined effects of terminal heat stress and Bipolaris leaf blight on selected wheat genotypes and To identify genotypes having tolerance to terminal heat stress and Bipolaris leaf blight. 	Dinajpur
98	Monitoring and evaluation in international wheat disease nurseries	<ul style="list-style-type: none"> To identify diseases, track pathogens and assess disease severity To identify and select sources of resistance and To collaborate with the international partners developing global disease management strategies. 	Dinajpur Gazipur Jamalpur Rajshahi and Jashore

Sl. No	Research Title	Objective (s)	Location (s)
99	Surveillance of rusts and blast of wheat in Bangladesh	<ul style="list-style-type: none"> To identify rust and blast diseases of wheat, track pathogens and assess disease severity in farmers' fields and To collaborate with the international partners developing global rust and wheat blast management strategies. 	Major wheat growing areas of Bangladesh
100	Evaluation of wheat germplasm against wheat blast under field/inoculated condition	<ul style="list-style-type: none"> To find out resistant/tolerant lines against wheat blast under natural disease development/high disease pressure. 	Dinajpur and Jashore
101	Evaluation of elite wheat lines for resistance to blast under inoculated condition	<ul style="list-style-type: none"> To evaluate advanced wheat lines for resistance to wheat blast under inoculated condition. 	Jashore
102	Efficacy of foliar fungicides in controlling wheat blast	<ul style="list-style-type: none"> To evaluate the efficacy of foliar fungicides in controlling wheat blast. 	Dinajpur and Jashore
103	Efficacy of seed treating fungicides in reducing prevalence of seed-borne <i>Magnaportheoryzaepa thotypetriticum</i> (MoT)	<ul style="list-style-type: none"> To evaluate the efficacy of seed treating fungicides in reducing prevalence of seed-borne MoT. 	Dinajpur (Lab) and Jashore (Field)
104	Investigation into alternative hosts and cereals of wheat blast pathogen	<ul style="list-style-type: none"> To identify the available winter cereals and weed species harboring <i>M. oryzae</i>, the recent thrust of wheat in Bangladesh. 	Major wheat growing areas of Bangladesh
105	Determining status of seed-borne fungi including <i>Magnaportheoryzaepa thotypetriticum</i> causing wheat blast	<ul style="list-style-type: none"> To determine prevalent seed-borne fungal pathogens along with wheat blast pathogen present in experimental plot seeds from different locations. 	Dinajpur
106	Molecular detection of wheat blast fungus <i>Magnaportheoryzaepa thotypetriticum</i> using MoT3 assay collected from different locations of Bangladesh	<ul style="list-style-type: none"> To identify and study of the pathogen at genetic level for confirmation of pathotype using molecular tools. 	Dinajpur
107	Integrated management of wheat blast	<ul style="list-style-type: none"> To evaluate the integrated management option to control the wheat blast disease. 	Meherpur

Sl. No	Research Title	Objective (s)	Location (s)
108	Wheat blast: Precision Phenotyping Platform	<ul style="list-style-type: none"> To screen available germplasms from different sources (national and international) for resistance to this disease. 	Jashore
109	Surveillance and monitoring of diseases of maize in Bangladesh	<ul style="list-style-type: none"> To identify diseases of maize, track pathogens and assess disease severity in farmers' fields and To know the status of maize diseases depending on variety and location. 	Major maize growing areas of Bangladesh
ENTOMOLOGY DIVISION			
110	Survey of insect pests and natural enemies in wheat and determination of damage potential due to insect pests	<ul style="list-style-type: none"> To document the damage severity of insect pests attacking wheat and To identify the natural enemies of insect pests of wheat. 	Dinajpur Thakurgaon Panchagorh Rajshahi and Gazipur
111	Yield loss assessment of wheat due to the aphid infestation	<ul style="list-style-type: none"> To document yield loss due to aphid infestation in wheat 	Dinajpur
112	Monitoring and scouting of Fall Armyworm (FAW) in maize and its seasonal fluctuation	<ul style="list-style-type: none"> To document the prevalence and intensity of FAW attacking maize 	Dinajpur Thakurgaon Panchagorh Rangpur Jashore and Bogura
113	Development of management package(s) to control FAW on maize	<ul style="list-style-type: none"> To develop a eco-friendly and sustainable management package against FAW attacking maize 	Dinajpur
AGRICULTURAL ENGINEERING DIVISION			
114	Battery operated low cost maize planter cum weeder	<ul style="list-style-type: none"> To develop battery operated maize planter cum weeder To test and evaluate the performance of battery operated weeder cum planter on station and in farmers' field and To compare the economic performance with conventional method 	Dinajpur
115	Development of multi nozzle boom sprayer for field crops	<ul style="list-style-type: none"> To develop a cost effective multi nozzle boom sprayer To test and performance evaluate of the sprayer in farmers field and on station and To find out the economic performance of the sprayer 	Dinajpur and Rajshahi.
116	Improvement of two wheel tractor operated strip till planter for upland crops	<ul style="list-style-type: none"> To introduce inclined plate seed meter for improving the performance of strip till planter for wheat , maize and pulses cultivation with utilization of residual soil moisture and To compare the yield and cost performance of the planter over conventional method 	Dinajpur and Rajshahi.

Sl. No	Research Title	Objective (s)	Location (s)
117	Development of tractor (4WT) operated multi crop seeder	<ul style="list-style-type: none"> To fabricate a 4 wheel Tractor operated multi-row seeder for up land crops To test the seeder performances both on station and in the farmers' field and To compare the cost of seeding with traditional broadcasting method 	Dinajpur
Technology Validation and Transfer			
118	Variety demonstration	<ul style="list-style-type: none"> Evaluating new varieties by the farmers comparing with widely grown one preserving and disseminate seeds of farmers' - preferred varieties through farmers to farmers and increasing varietal diversity location: Dinajpur, Thakurgaon, Panchagarh, Rangpur, Nilphamari, Kurigram, Gaibandha, Lalmonirhat, Joypurhat, Bogura, Rajshahi, Naogaon, Natore, Nawabgonj, Pabna, Sirajgonj, Kushtia, Chuadanga, Meherpur, Jashore, Jhenaidah, Magura, Narail, Satkhira, Faridpur, Rajbari, Gopalganj, Madaripur, Shariatpur, Barishal, Bhola, Mymensingh, Netrokona, Kishorganj and Jamalpur, Sherpur, Tangail, Sylhet, Manikgonj, Cumilla, Moulvibazar, Habigonj, Sunamgonj, OFRD: Mymensingh, Sherpur, Faridpur, Patuakhali, Tangail, Gaibandha, Jashore, Rajshahi, Dinajpur (CARITAS), Dinajpur (CIMMYT) and Rangpur (RDRS) 	
119	Training to demonstration, PVS, YM farmers and related personnel	<ul style="list-style-type: none"> The objective of the training is to teach variety demonstration farmers and related personnel (five SAAO for 25 demonstrations and one DAE Officer per batch as observer) about the systems of conducting demonstrations, data recording and sending, and wheat production and seed preservation technologies. location: Dinajpur (BWMRI), Rajshahi,, Jamalpur, Jashore and Gazipur (RS, BWMRI), Rangpur and Dinajpur, Faridpur, Barishal, Rajshahi and Bogura, Mymensingh, Jashore, Khulna, Dhaka and Sylhet 	
120	Training of trainers (TOT) on wheat production and seed preservation	<ul style="list-style-type: none"> To increase the knowledge and skill on wheat production and seed preservation techniques of the progressive farmers 	Dinajpur Rajshahi Jamalpur Jashore and Joydebpur
121	Training of trainers (TOT) for DAE, BADC and NGO personnel on wheat production and seed preservation	<ul style="list-style-type: none"> Update the knowledge and skill on wheat production and seed preservation Acquaint them with the new varieties and their distinguishing characteristics and Get the feedback about the causes of wheat area reduction and their provable solutions. 	Dinajpur Rajshahi Jamalpur Jashore and Joydebpur
122	Five days training for young scientists on research planning, execution, data recording, analysis and reporting	<ul style="list-style-type: none"> Introduce with the objectives, activities and future strategies of wheat research in Bangladesh and Improve the knowledge of wheat research systems, methodologies, data recording, analysis and reporting 	Dinajpur

Sl. No	Research Title	Objective (s)	Location (s)
124	Two days training for SSA/SA/LA	<ul style="list-style-type: none"> • To introduce with the objectives and different activities of wheat research in Bangladesh and • To make familiar with different types of experimental design, laboratory protocols and data collection 	Dinajpur
125	Regional Workshop on challenges in wheat production	<ul style="list-style-type: none"> • Sharing the knowledge and skills for enhancing wheat production in the country updating the knowledge new wheat technologies among the stakeholders and • To get the feedback about the challenges in wheat production and action to be taken to face these challenges. 	Dinajpur (HQ) Rajshahi Jamalpur Jashore Gazipur (RS)
126	Pre-review, Internal Review and Programme Planning workshops	<ul style="list-style-type: none"> • To review the reports of research progress 2019-20 and • To formulate the research programme for 2020-21. 	Dinajpur
127	Field days and monitoring of on-farm and on-station research activities	<ul style="list-style-type: none"> • Showing and explain the performance of the new varieties and Showing the impact of recommended technologies use in wheat yield and monitoring of on-station research activities • Rangpur and Dinajpur Region, Rajshahi and Bogura Region, Jashore, Faridpur and Barisal Region, Mymensingh Region, Dhaka, Cumilla and Sylhet Region, Panchagarh / Lalmoni / Kurigram 	

SOIL RESOURCE DEVELOPMENT INSTITUTE

SOIL RESOURCE DEVELOPMENT INSTITUTE

Sl. No.	Research Title	Objective (s)	Location
1	Land and soil resource characterization through semi-detailed soil survey	<ul style="list-style-type: none"> • To update land, soil and land use database • To update soil fertility database and • To update the changes in inundation depth, land use, river course and infrastructure developments 	All over Bangladesh
2	Union wise Land, Soil and Fertilizer Recommendation Guide Preparation through detailed survey	<ul style="list-style-type: none"> • To produce union level soil and land use database for local level agricultural development planning • To ensure the use of soil test-based fertilizer recommendation at union level and • To provide crop suitability related information to grass root level. 	All over Bangladesh
3	Assessment of soil and water salinity through long term monitoring	<ul style="list-style-type: none"> • To determine soil and water salinity in coastal area • To determine the particular time frame for using surface water for irrigation and • To provide necessary database for developing appropriate salinity reclamation technology and management practices. 	Coastal saline areas
4	Adaptive Trials for technology Transfer	<ul style="list-style-type: none"> • To demonstrate the benefit of balanced fertilizer in crop production according to Upazila Nirdeshika soil test results. • To popularize the use of Upazila Nirdeshika among farmers. • To motivate the farmers to conserve soil health through rationale use of chemical fertilizers. 	All over Bangladesh
5	Monitoring and Evaluation of Farmers' Service through Mobile Soil Testing Laboratories	<ul style="list-style-type: none"> • To create awareness among the farmers for using balanced fertilizer on the basis of STB and crop requirements. • To serve the farmers with balanced fertilizer recommendation on the basis of STB & crop requirements by analyzing the soil samples at Upazila level and • To evaluate the effects of soil test-based fertilizer application on crop production. 	All over Bangladesh
6	Soil, water, plant samples analysis	<ul style="list-style-type: none"> • To recommend location specific balanced fertilizer doses based on soil 	All over Bangladesh

Sl. No.	Research Title	Objective (s)	Location
		nutrient status & crop requirement <ul style="list-style-type: none"> To provide database for soil fertility and fertilizer management To assist in introduction & execution of soil health cards program and To provide analytical support in SRDI's regular soil fertility and salinity monitoring program. 	
7	Fertilizer quality assessment	<ul style="list-style-type: none"> To determine the nutrient content and other physical properties for ensuring the quality of fertilizers. 	All over Bangladesh
8	Soil and Land related Data processing and Map Preparation through GIS software	<ul style="list-style-type: none"> To digitize soil and land related database and To prepare maps with spatial data. 	All over Bangladesh
9	Selection of suitable sweet gourd varieties for saline soils	<ul style="list-style-type: none"> To select suitable high yielding sweet gourd varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
10	Selection of suitable Rib Gourd varieties for saline soils	<ul style="list-style-type: none"> To select suitable rib gourd varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
11	Selection of suitable musk melon varieties for saline soils	<ul style="list-style-type: none"> To select suitable musk melon varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
12	Selection of suitable Snake Gourd varieties for saline soils	<ul style="list-style-type: none"> To select suitable Snake Gourd varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
13	Selection of suitable kharif bitter gourd varieties for saline soils	<ul style="list-style-type: none"> To select suitable kharif bitter gourd varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
14	Selection of suitable Lady's Finger varieties for saline soils	<ul style="list-style-type: none"> To select suitable Lady's Finger varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
15	Selection of suitable Cucumber varieties for saline soils	<ul style="list-style-type: none"> To select suitable Cucumber varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)

Sl. No.	Research Title	Objective (s)	Location
16	Selection of suitable Water Melon varieties for saline soils	<ul style="list-style-type: none"> To select suitable Water Melon varieties for coastal saline soils and To bring salt affected seasonal fallow land under crop production 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
17	Yield Performance of Jute in saline soils	<ul style="list-style-type: none"> To find out the performance yield of Jute in coastal saline soil. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
18	Effects of Organic Manure on Soil Salinity and Yield of Musk Melon	<ul style="list-style-type: none"> To assess the effect of different Doses of Organic Manure on Soil Salinity and yield of Musk Melon. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
19	Effects of Biochar on Soil Salinity and Yield of Sweet Gourd	<ul style="list-style-type: none"> To find out the effects of different doses of Biochar on Soil Salinity and yield of Sweet Gourd. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
20	Effects of different Doses of Gypsum on Soil Salinity and Yield of Sweet Gourd	<ul style="list-style-type: none"> To find out the effects of different Doses of Gypsum on Soil Salinity and Yield of Sweet Gourd. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
21	Selection of suitable maize varieties under dibbling cultivation in saline soils	<ul style="list-style-type: none"> To find out suitable maize varieties under dibbling cultivation and To increase cropping intensity in coastal area. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
22	Yield Performance of Bitter Gourd under Pitcher Irrigation Technology	<ul style="list-style-type: none"> To find out the yield performance of Bitter Gourd under Pitcher Irrigation Technology. 	Botiaghata, Khulna (Salinity Management and Research Center) (SMRC)
23	Development of Integrated Watershed Management at SCWMC In CHT	<ul style="list-style-type: none"> To manage and utilize the rain & runoff water for irrigation, fishery, poultry and household purposes and To protect, conserve and improve the slopping land of watershed. 	Chattogram Hill Tracts
24	Study on the suitability of <u>Schumannianthus dichotoma</u> (Murta/Patibet) In Hilly Jhiri Land at CHT	<ul style="list-style-type: none"> To study the suitability and productivity of Murta in Hilly Region of CHT and To bring the fallow lands of hilly Jhiri under production and minimize soil erosion hazard. 	Chattogram Hill Tracts

Sl. No.	Research Title	Objective (s)	Location
25	Effect of Different Hedge Species on Soil Erosion, Runoff and Nutrient Mining at Gentle Slope in CHT.	<ul style="list-style-type: none"> To compare soil loss, runoff and nutrient mining in different hedge species at gentle slope. 	Chattogram Hill Tracts
26	Study on the Soil Loss and Yield Performance of Pineapple Based Jackfruit Orchard on Hill Slope Following Contour Line	<ul style="list-style-type: none"> To reduce soil loss by pineapple cover and To introduce sustainable land use for increasing fruit production 	Bandarban (Soil conservation and Watershed Management Centre) (SCWMC)
27	Study on the Broom Grass for Controlling Soil Erosion and its Economic Value at CHT.	<ul style="list-style-type: none"> To prevent frequent landslides, retain ground moisture and to increase soil fertility To generate income for the hill dwellers. To provide green forage for livestock. To rehabilitate the endangered animals and to keep ecological balance. 	Chattogram Hill Tracts
28	Effect of Bamboo plantation of for erosion control and its economic purposes.	<ul style="list-style-type: none"> Reclamation of gullied land by minimizing erosion hazard. 	Bandarban, Soil, conservation and Watershed Management Centre (SCWMC)
29	Study on the Brushwood Check Dam for minimizing erosion hazard and reclamation of gullied land.	<ul style="list-style-type: none"> To reduce the velocity of run-off and To prevent deepening and widening of the gully. 	Bandarban, Soil conservation and Watershed Management Centre (SCWMC)
30	Effect of indigenous & Zero Tillage cultivation methods of pineapple on soil erosion, run off, nutrient mining in hilly areas.	<ul style="list-style-type: none"> To estimate and compare soil loss, runoff and nutrient mining under indigenous and zero tillage cultivation systems and To create awareness about soil conservation & watershed management among hill dwellers. 	Bandarban Soil conservation and Watershed Management Centre (SCWMC)
31	Studying effect of Natural vegetative strip (NVS) for minimizing soil erosion in cultivation of vegetables	<ul style="list-style-type: none"> To examine the effect of NVS on the maintenance of soil fertility and reducing soil erosion in moderate hill slope and To examine the effect of NVS on vegetables productivity in hill slope. 	Bandarban, Soil conservation and Watershed Management Centre (SCWMC)
32	Rehabilitation of degraded/eroded sloping land by Jute Geo-textile on different hill Slopes of CHT.	<ul style="list-style-type: none"> To study the effects of geo-jute (untreated) in controlling soil erosion To rehabilitate degraded / eroded/landslide hilly areas and To stabilize/rejuvenate degraded/landslide areas of CHT 	Chattogram Hill Tracts

BANGLADESH TEA RESEARCH INSTITUTE

BANGLADESH TEA RESEARCH INSTITUTE

SOIL SCIENCE DIVISION

Sl. No.	Research Title	Objective (s)	Location (s)
1	Response of dolomitic lime and its effect on the changes of soil properties and yield of mature tea	<ul style="list-style-type: none"> • To estimate the optimum dose of dolomitic lime • To evaluate the changes of physico-chemical properties of tea soil and • To observe the effect of dolomite on the yield of mature tea. 	Srigobindpur, Moulvibazar (Tea Estate)
2	Effect of vermi-compost on soil properties, growth and yield of mature tea	<ul style="list-style-type: none"> • To evaluate the dose and efficiency of vermi-compost on tea production and • To minimize the use of chemical fertilizer. 	Bilashcherra, Srimangal (Experimental Farm, BTRI)
3.	Status of Micronutrients (B, Mo, Zn, Mn, Fe & Cu) in some selected tea soils & its effects on the growth and yield of young tea and mature tea	<ul style="list-style-type: none"> • To know the status of micronutrients (B, Mo, Zn, Mn, Fe and Cu) in tea soils of Bangladesh. 	Bilashcherra Experimental Farm (BEF) and different tea gardens of BD
4.	Evaluation of physical properties of some selected tea soils of Bangladesh and their influence on chemical properties and yield of tea	<ul style="list-style-type: none"> • To assess the long-term impact of growing tea on soil physical properties, and how it correlates with crop yield. 	Bilashcherra (Experimental Farm and different tea gardens of Bangladesh)
5	Present status of toxic heavy metals (Pb, Cd, Hg, Cr) in tea soils, green leaves and made tea in Bangladesh.	<ul style="list-style-type: none"> • To evaluate the status of toxic heavy metals in tea soils, green leaves and made tea. 	Bilashcherra (Experimental Farm and different tea gardens of Bangladesh)
6	Performance of Bio chars as a soil amendment and its effect on tea soil properties.	<ul style="list-style-type: none"> • To evaluate the effect of Bio char on tea soil properties. 	Srimangal (BTRI Farm)
7.	Determination of critical values of nutrients in tea soil and plant leaf in Sylhet, Chittagong and Panchagarh region.	<ul style="list-style-type: none"> • To estimate critical values of essential elements in tea soil as well as tea plant leaves on the basis of present scenario of tea soils of Bangladesh. 	Bilashcherra (Experimental Farm and different tea gardens of Bangladesh)
PLANT PATHOLOGY DIVISION			
8	Management of Red rust disease of tea with Plant Growth Promoting Rhizospheric microbes (PGPR)	<ul style="list-style-type: none"> • To isolate potential rhizospheric microbes from tea soil and • To evaluate rhizospheric microbes for controlling parasitic and epiphytic red rust. 	Srimangal (Main farm)

Sl. No.	Research Title	Objective (s)	Location (s)
9	Identification of potential infection source of Red rust disease (Epiphytic and parasitic) of tea.	<ul style="list-style-type: none"> To find out the potential source of epiphytic red rust infection in case of field factors and To develop sustainable cultural control measures of epiphytic red rust effectively. 	Bilashcherra (Experimental Farm of BTRI)
10	Effect of Leaf Reduction in MSK/ LSK sections on the incidence & severity of Red rust and Black rot diseases of tea.	<ul style="list-style-type: none"> To find out the best cultural practices for controlling the Red rust and Black rot diseases of tea 	Srimangal (BTRI Main farm)
11	Studies on Integration and Economics of Nitrogen fertilizer and Integrated Weed Management in young mature tea.	<ul style="list-style-type: none"> To optimize of N fertilizer rate for young tea in different growth stages of weeds and To find out the effect of different N rates on tea- weed competition. 	Srimangal (BTRI Main farm)
12	Reduction of weed infestation through integrated weed management practices in mature tea plantations	<ul style="list-style-type: none"> To reduce the intensity of tea weeds with different components and b) To find out the effect of different integrated approaches on tea production. 	Srimangal (Bilashcherra Experimental farm of BTRI)
13	Screening of new fungicides and herbicides against different diseases and weed in tea.	<ul style="list-style-type: none"> To evaluate and standardize new fungicides and herbicides against different tea diseases and weeds. 	Srimangal (Bilashcherra Experimental farm of BTRI)
BOTANY DIVISION			
14	B1-27: Selection of Vegetative Clones at Shumshernugger T. E., Section Doublecherra-13 & Main Div. Sec. No. 9.	<ul style="list-style-type: none"> To isolate desirable mother bushes from the existing variable seedling population To identify promising plants having yield and quality potential through exploiting existing variability To isolate plants tolerant to insect, disease and drought and To observe rooting ability of the selected mother bushes. 	Shumshernugger Moulvibazar (T. E., Main Div. Sec. No. 9)
15	B1-28: Selection of Vegetative Clones at Amo T. E., Section No. 1.	<ul style="list-style-type: none"> To isolate desirable mother bushes from the existing variable seedling population To identify promising plants having yield and quality potential through exploiting existing variability To isolate plants tolerant to insect, disease and drought and To observe rooting ability of the selected mother bushes. 	Chandpur, Habiganj (Amo T. E., Section No. 1)
16	B1-31: Selection of Vegetative Clones at Baraoorah T. E., Section No. 8.	<ul style="list-style-type: none"> To isolate desirable mother bushes from the existing variable seedling population To identify promising plants having yield and quality potential through 	Baraoorah T. E., Srimangal (Section No. 8)

Sl. No.	Research Title	Objective (s)	Location (s)
		<p>exploiting existing variability</p> <ul style="list-style-type: none"> To isolate plants tolerant to insect, disease and drought and To observe rooting ability of the selected mother bushes. 	
17	B2-36: Yield and Quality Trial of Test clones Selected from Amo T. E. Test clones A/8/01, A/17/22, A/22/27 and A/22/40 against Control BT1.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pest and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
18	B2-38: Yield and Quality Trial of Test clones Selected from Chandpore, Shumshernugger and Amo T. Es.; Test clones C/J1/10, Sh /B/ 6/9, Sh /B/ 6/ 62 and A/8/24 against Control BT2.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, 	Srimangal (BTRI Experimental Farm)
19	B2-39: Yield and Quality Trial of Four Test clones Selected from Shumshernugger T.E.; Test clones Sh/B/6/36, Sh /B/6/38, Sh/B/6/55 and Sh/B/6/67 against Standard BT1.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests AND In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
20	B2-40: Yield and Quality Trial of Six Test clones – MZ/39, E/4, D/13, B2T1, BR2/97 and SDL/1 against Standard BT2.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant. 	Srimangal (BTRI Experimental Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
		<ul style="list-style-type: none"> To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	
21	B2-41: Yield and Quality Trial of Four Test clones Selected from Amo T. E.; Test clones – A/8/37, A/8/55, A/8/62 and A/8/66 against Standard BT2.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
22	B2-42: Yield and Quality Trial of Four Test clones Selected from Phulcherra, Amo and Shumshernugger T. Es.; Test clones – A/17/16, Ph/9/1, Ph/9/9 and Sh/B/6/46 against Standard BT1.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
23	B2-43: Yield and Quality Trial of Four Test clones Selected from Phulcherra and Hybrid Progeny; Test clones– Ph/9/4, Ph/9/25, Ph/9/40 and BS/67 against Standard BT5.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant. To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
24	B2-44: Yield and Quality Trial of Three Test clones Selected from Amo and Phulcherra T. Es.; Test clones– A/8B/1, Ph/9B/1, Ph/9/11 and against Standard BT1.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
25	B2-45: Yield and Quality Trial of Three Test clones Selected from Amo, Phulcherra and Shumshernugger T. Es.; Test clones- A/8/61, Ph/9/68A, Sh/D/11/18 (retrial from Expt. B2-26) and One Introduced Clone SC/12/28 against Standard BT2.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
26	B2-46: Yield and Quality Trial of Four Test clones Selected from BTRI Farm (Dulia Section); Test clones – D1/18, D/6, D/10 and D/12 against Standard BT5.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
27	B2-47: Yield and Quality Trial of Four Test clones Selected from Phulcherra T. E. and BTRI Germplasm Bank; Test clones-Ph/9/92, BS/3, Ph/9/108 and G/61/8 against Standard BT15.	<ul style="list-style-type: none"> To select promising test clones having desirable characteristics i.e. either yield or quality or both To identify stress tolerant test clones such as drought tolerant To identify test clones which are less susceptible to pests and In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
28	B2-48: Yield and Quality Trial of Four Test clones Selected from Shumshernugger and Amo T. Es. Test clones – A/8/124, Sh/10/2, A/8/125 A/11/38 against Standard BT2.	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
29	B2-49: Yield and Quality Trial of Four Test clones Selected from Shumshernugger T.E. (Sh/10/5, Sh/D/13/4 and Amo T. Es. Test clones – A/8/128, BS/91/6, against Standard BT2.	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
30	Yield and Quality Trial of Three Test Clones Selected from Baraoorah T.E. and Shumshernugger T.E. Test Clones – B/8/79, Sh/9/43 and B/8/93 against Standard BT2 and BT17 .	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
31	Yield and Quality Trial of Two Test Clones Selected from Amo T.E., and Shumshernugger T.E. Test Clones – A/8/194 and Sh/9/65 against Standard BT2, BT17 and BTS1.	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which 	Srimangal (BTRI Experimental Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
		have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc.	
32	Yield and Quality Trial of Four Test Clones Selected from Amo T.E., Baraoorah T.E., and Shumshernugger T.E. Test Clones–T2, T3, T4 and T5 against Standard BT2	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
33	Yield and Quality Trial of Four Test Clones Selected from Amo T.E., Baraoorah T.E., and Shumshernugger T.E. Test Clones–D1, D2, D3 and D4 against Standard BT	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
34	Yield and Quality Trial of Four Test Clones Selected from Amo T.E., Baraoorah T.E., and Shumshernugger T.E. Test Clones–A2, A3, A4 and A5 against Standard BT2	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
35	Yield and Quality Trial of Four Test Clones Selected from Amo T.E., Baraoorah T.E., and Shumshernugger T.E. Test Clones–C1, C2, C3 and C4 against Standard BT2	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which 	Srimangal (BTRI Experimental Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
		have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc.	
36	Long term Yield and Quality Trial of Four Test Clones (Multi-location trail) at Amo Tea Estate (2019).	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
37	Long term Yield and Quality Trial of Four Test Clones (Multi-location trail) at Ayeshabag Tea Estate (2019-).	<ul style="list-style-type: none"> • To select promising test clones having desirable characteristics i.e. either yield or quality or both • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests in order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	Srimangal (BTRI Experimental Farm)
38	B3-1.1: Controlled Pollination between Selected Clones /Agrotypes and Selection of Generative Clones for the Establishment of Clonal Seed Reserve.	<ul style="list-style-type: none"> • To study compatibility between different clones and agro-types • To observe seed setting ability of different cross combinations • To observe hybrid vigour of seed progeny • To identify suitable generative clones or agro-types for hybrid seed (biclinal seed) production in order to select vegetative clones from hybrid progeny having desirable characters. • f) To evaluate indigenous and exotic biclinal seeds. 	Srimangal (BTRI Experimental Farm)
39	Establishment of polyclonal seed baries according to the proposed model by the Institute and observation on the open pollinated	<ul style="list-style-type: none"> • To study compatibility between different clones and agro-types • To observe seed setting ability of different cross combinations • To observe hybrid vigour of seed progeny 	Srimangal (BTRI Experimental Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
	progenies.	<ul style="list-style-type: none"> To identify suitable generative clones or agro-types for hybrid seed (bi-clonal seed) production in order to select vegetative clones from hybrid progeny having desirable characters and To evaluate indigenous and exotic bi-clonal seeds 	
40	B3-1.5: Establishment of a Biclinal Seed with Clones TV18 and BT3.	<ul style="list-style-type: none"> To study compatibility between different clones and agro-types To observe seed setting ability of different cross combinations To observe hybrid vigour of seed progeny To identify suitable generative clones or agro-types for hybrid seed (bi-clonal seed) production in order to select vegetative clones from hybrid progeny having desirable character and To evaluate indigenous and exotic bi-clonal seeds. 	Srimangal (BTRI Experimental Farm)
AGRONOMY DIVISION			
41	B3-1.8: Comparative Yield and Quality Trial of BTRI Released Biclinal Stock BTS1, Biclinal Stock T18B3, Allynugger Polyclonal Stock (ANPS), Phulbari General Seed Stock (PBS) and Clone BT1.	<ul style="list-style-type: none"> To study compatibility between different clones and agro-types To observe seed setting ability of different cross combinations. To observe hybrid vigour of seed progeny. To identify suitable generative clones or agro-types for hybrid seed (bi-clonal seed) production and in order to select vegetative clones from hybrid progeny having desirable characters. 	Srimangal (BTRI Experimental Farm)
42	B3-1.9: Comparative Trial of 4 Biclinal Seed Stocks (BTS1, BTS3, TV18 × BT3 & TS463) and 3 Parental Clones (BT1, TV1 & TV19)	<ul style="list-style-type: none"> To study compatibility between different clones and agro types To observe seed setting ability of different cross combinations To observe hybrid vigour of seed progeny To identify suitable generative clones or agro -types for hybrid seed (bi-clonal seed) production in order to select vegetative clones from hybrid progeny having desirable characters and To evaluate indigenous and exotic bi-clonal seeds. 	Srimangal (BTRI Experimental Farm)
43	B3-8: Survey and Conservation of Gene	<ul style="list-style-type: none"> To collect and ex-situ conservation of genetic resources of tea (tea germplasm) 	BTRI Germplasm

Sl. No.	Research Title	Objective (s)	Location (s)
	Resources of Tea in Bangladesh	from home and abroad in order to use in future for varietal improvement.	Bank
44	B3-11: Detailed survey and assessment of tea seed baries in Bangladesh (1985-)	<ul style="list-style-type: none"> To study compatibility between different clones and agro types To observe seed setting ability of different cross combinations To observe hybrid vigour of seed progeny To identify suitable generative clones or agro types for hybrid seed (bi-clonal seed) production in order to select vegetative clones from hybrid progeny having desirable characters and To evaluate indigenous and exotic bi-clonal seeds. 	Srimangal (BTRI Experimental Farm)
45	B3-12: Morphological characterization of BTRI released clones, some test clones and wild genotypes	<ul style="list-style-type: none"> Classify groups of genotypes using IBPGR criteria as descriptor related tea Identify accessions with desired traits and select entries for more precise evaluation Develop interrelationships between, or among traits and between groups of genotypes and Estimate the extent of variation in the genotypes. 	Srimangal (BTRI Experimental Farm)
46	Effect of different thickness of mulching materials on morpho-physiological characteristics of tea	<ul style="list-style-type: none"> To optimize ideal thickness of mulching material 	Srimangal (BTRI Experimental Farm)
47	B4-1. Developing a sustainable and cost effective protocol for manufacturing green tea and its derivatives (value added green tea)	<ul style="list-style-type: none"> To assess the effect of different treatments on dry leaf, infused leaf and liquoring characteristics amongst manufactured green tea and To determine the best and effective way for manufacturing benefitted green tea. 	BTRI (Miniature Factory)
48	B4-3.1: Screening of drought tolerant variety of tea at the nursery level	<ul style="list-style-type: none"> To screen of drought tolerant variety of tea at the nursery level 	Srimangal (BTRI Experimental Farm)
49	B4-10: Effect of drought on morpho-physiological and water relations traits in tea clones at nursery level (2019-)	<ul style="list-style-type: none"> To screen of drought tolerant variety of tea in nursery condition 	Srimangal (BTRI Experimental Farm)
50	B4-11: Effect of drought on morpho-physiological and water relations traits in tea clones at field level	<ul style="list-style-type: none"> To screen of drought tolerant variety of tea in field condition 	Srimangal (BTRI Experimental Farm)

Sl. No.	Research Title	Objective (s)	Location (s)
51	B4-12: Sustainable protocol development of artisan tea and different kinds of value added tea	<ul style="list-style-type: none"> To develop sustainable protocol development of artisan tea and different kinds of value added tea 	BTRI (Tea Tasting room)
STATISTICS AND ECONOMICS DIVISION			
52	Adoption of BTRI matured Technologies and its Extension to Tea Estates of Bangladesh	<ul style="list-style-type: none"> The experiment was attempted to study the present status about the adoption of BTRI technologies and its efficiency in crop improvement in the tea estates and To create a statistical database on adoption of these technologies to the tea estates as well as to find out the limitations of dissemination the technologies. 	Tea Estates of Bangladesh (166)
53	Economic efficiency of some selective test clones and standard clones of BTRI	<ul style="list-style-type: none"> Study the economic efficiency of the test clones in respect of yield To find out the economic efficient test clone(s) comparing internal rate of return and Use of economic performance as a parameter for suitable selection of significant clone(s). 	Srimangal (BTRI Experimental Farm)
54	A study on economic profile in concern of current economic status of expenditure in some selected Tea Estates of greater Sylhet and Chittagong	<ul style="list-style-type: none"> To determine the cost and return of Bangladesh tea in present economic condition. To assess the average per kilogram and per hectare cost of made tea in current condition of expenditure item. and To determine the estate wise resource use efficiency of tea production 	Selected tea estates of seven valley circles of Bangladesh.
55	Evaluation of some commercial biopesticides against Red spider mite, Looper caterpillar & Thrips (<i>Potential effects of Bracon hebetor as a bio-control agents for sustainable management of Looper caterpillar</i>)	<ul style="list-style-type: none"> To identify the bio-control agents against Looper caterpillar 	Srimangal (Entomology laboratory and BTRI main farm)
56	Screening of pesticides against <i>Helopeltis</i> , Red spider mite, Termites, Nematodes and Thrips in tea	<ul style="list-style-type: none"> To evaluate the effectiveness of commercial formulations of 	Srimangal (BTRI Experimental Farm)
57	Development of a new pruning cycle for higher and sustainable tea yield	<ul style="list-style-type: none"> Main objective is to find out a standard pruning cycle for getting higher yield of tea which may vary from clone to clone 	Srimangal (BTRI Experimental

Sl. No.	Research Title	Objective (s)	Location (s)
	in the context of present climate change.		Farm)
58	Effect of different types of plucking policies on yield of tea.	<ul style="list-style-type: none"> • Main objective is to find out the best plucking policies between traditional and mechanical harvesting; 	Bilashcherra (Experimental Farm) Srimangal (Main Farm)
59	Development of a tool for easy and effective transplanting of tea saplings in the nursery.	<ul style="list-style-type: none"> • To increase the efficiency of workers. 	Srimangal (BTRI Experimental Farm)
60	Effect of different types of compost on growth and development of clonal tea.	<ul style="list-style-type: none"> • To find out a good alternative of cowdung which is put in pit during the plantation of tea plants. 	Srimangal (BTRI Experimental Farm)
61	Effects of foliar application of Urea, MOP and DAP on growth, development and yield of tea	<ul style="list-style-type: none"> • To know the impact of foliar application of different chemical fertilizers for sustainable growth and yield of tea. 	Bilashcherra (Experimental Farm), Srimangal (Main Farm)
62	Mechanization in pruning and its impact on the yield of tea.	<ul style="list-style-type: none"> • To introduce mechanical management practice in tea to cope with the upcoming skilled tea workers crisis and to increase labour efficiency. 	Srimangal (BTRI Experimental Farm)
63	Implementation of grafting technique to produce composite tea plant in the nursery for increasing yield and drought resistance capacity of the plant	<ul style="list-style-type: none"> • To raise such types of tea plants which might have the characteristics of higher yielding as well as drought tolerant. 	Srimangal (BTRI Experimental Farm)
64	Effect of integrated nutrient management for raising clonal tea saplings in poly tubes in secondary bed.	<ul style="list-style-type: none"> • To observe the effect of vermi- compost, poultry manure and cow dung on secondary bed of VP nursery; and To standardize their ratios with soil in filling the poly tubes in VP nursery. 	Srimangal (BTRI Experimental Farm)

BANGLADESH FOREST RESEARCH INSTITUTE

BANGLADESH FOREST RESEARCH INSTITUTE

Sl. No.	Resrerch Title	Objective(s)	Location
BIODIVERSITY AND CONSERVATION			
1	Floristic composition of fresh water swamp forest in Sylhet region of Bangladesh	<ul style="list-style-type: none"> • To assess the phyto - sociological analysis of swamp forest of Sylhet region • To prepare a checklist of vegetation dynamics of swamp forest of Sylhet region and • To regenerate awareness among the local people on the protection and conservation for the healthy nature. 	Chattogram (Forest Botany Division)
2	Biodiversity conservation through Assisted Natural Regeneration (ANR) in Sitapahar Nutun Para and Bagan Para of Bandarban hill district	<ul style="list-style-type: none"> • To increase awareness among the community people of the potential of ANR methods for biodiversity conservation • To establish demonstration plot for conservation of indigenous tree species by use ANR methods and • To know about difference between the application of NR and ANR methods for biodiversity conservation with the participation of local people. 	Chattogram (Forest Botany Division) Bandarban hill district
3	Vegetation status and Natural Regeneration of Rema Kalenga Wildlife Sanctuary of Bangladesh.	<ul style="list-style-type: none"> • To prepare a checklist of forest trees, woody shrubs and climbers of Rema-Kalenga and • To observe the regeneration status of tree species in different habitats of Rema-Kalenga. 	Chattogram (Forest Botany Division)
4	Centralization and conservation of mangrove vegetation in three salinity zones of the Sundarban.	<ul style="list-style-type: none"> • To conserve mangrove species in their natural habitate • To centralize threatened mangrove species • To demonstrate flora and fauna in natural habitat in the Sundarban and • To enrich and develop of a mangrove museum. 	Chattogram (Mangrove Silviculture Division)
5	Improvement and Popularization of Plantation Techniques for Threatened Mangrove Species in the Sundarban.	<ul style="list-style-type: none"> • To develop standard nursery and plantation techniques for endangered mangrove species • To determine better silvicultural techniques for each endangered mangrove species and • To establish and conserve the plantations of endangered species for seed source 	Chattogram (Mangrove Silviculture Division)

Sl. No.	Resrerch Title	Objective(s)	Location
6	Impact of climate change on floral biodiversity in the Sundarban.	<ul style="list-style-type: none"> To conserve the species/genetic diversity of plants and animals as well as to preserve the continuity of food chains in the Sundarbans To know the impact of soil and water salinity in the Sundarban and To assess the mangrove biodiversity of the Sundarban. 	Chattogram (Mangrove Silviculture Division)
7	Successional change of vegetation and growth in coastal plantations.	<ul style="list-style-type: none"> To observe the changes of vegetation and natural regeneration in the coastal man-made forests and To determine the impact of related climatic factors, which are responsible for the change of vegetation in the coastal forest 	Chattogram (Plantation Trial Unit Division) Coastal area
8	Conservation of threatened plant species in <i>ex-situ</i> condition.	<ul style="list-style-type: none"> To conserve and centralize the gene resources of threatened forest plant species To domesticate the threatened species for conservation and To raise demonstration and resource plots for conservation purpose. 	Chattogram (Silviculture Genetics Division)
9	Avian species diversity of Dhanmondi Lake Areas, Dhaka and role of its green space for the conservation of Birds.	<ul style="list-style-type: none"> To identify the avian species of Dhanmondi Lake Areas To determine the avian species abundance of Dhanmondi Lake areas To determine the avian species abundance of Dhanmondi Lake areas 	Dhaka (Wildlife Section)
10	Wildlife diversity of Mohamaya Eco-Park, Mirsharai, Chattogram	<ul style="list-style-type: none"> To identify the different type of wildlife species of Mohamaya Eco-Park To find out the existing feeding, nesting and cover facilities of the habitat for the wildlife and To identify the major threats to the wildlife species of Mohamay Eco-Park 	Eco-Park, Mirsharai Chattogram (Wildlife Section),
PLANTATION TECHNIQUE AND FOREST MANAGEMENT			
11	Growth performance of mangrove and non-mangrove experimental plantations in the Sundarban	<ul style="list-style-type: none"> To determine the growth performance of mangrove and non-mangrove experimental plantations in the Sundarban 	Chattogram (Mangrove Silviculture Division)
12	Growth performance of bamboo and rattan in the coastal raised land of Bangladesh	<ul style="list-style-type: none"> To investigate the possibility for introduction of bamboo and rattan inside the older keora plantations To select suitable bamboo and rattan species in the coastal areas and To increase the productivity of bamboo and rattan in the coastal areas 	Chattogram (Plantation Trial Unit Division)

Sl. No.	Resrerech Title	Objective(s)	Location
13	Plantation techniques of some understoried mangrove associate inside keora plantations in the coastal belt of Bangladesh	<ul style="list-style-type: none"> To develop better techniques for raising nursery and plantations of some important understoried mangrove species inside keora plantations and To select suitable mangrove species for coastal areas of Bangladesh 	Chattogram (Plantation Trial Unit Division) Coastal Belt
14	Standardization of plantation techniques and site suitability of palm species in the Eastern zone of Bangladesh	<ul style="list-style-type: none"> To standardize the plantation techniques of mainland palm species for large scale plantation in the eastern zone of Bangladesh To enrich palm biodiversity in the coastal areas for reducing climate change induced problems and To select site-suitable palm species in the eastern coastal areas of Bangladesh. 	Chattogram (Plantation Trial Unit Division)
15	Monitoring and maintenance of existing trial plantations in the coastal areas of Bangladesh	<ul style="list-style-type: none"> To assess the growth performance and phenology of different mangrove and non-mangrove species at different char lands and To develop future seed sources for sustainable coastal forests management. 	Chattogram (Plantation Trial Unit Division)
16	Growth performance of different forest tree species in research plots	<ul style="list-style-type: none"> To assess the growth performance of different tree species in four agro-ecological regions of the country To determine the silvics of different forest tree species and To develop quality seed sources. 	Chattogram (Silviculture Research Division)
17	Restoration of degraded Sal forest through mix planting with Sal (<i>Shorea robusta</i>) and other site suitable species	<ul style="list-style-type: none"> To develop suitable mixed plantation model for the enrichment of degraded Sal forest To monitor the changes of biodiversity of Sal forest overtime after establishing the plantation. 	Chattogram (Silviculture Research Division)
18	Effect of betel leaf cultivation by Khashia community on the vegetation and soil of Lawachara Forest	<ul style="list-style-type: none"> To find out the lopping intensity of support trees in relation to betel leaf production. To determine the soil loss from the forest floor. 	Chattogram (Silviculture Research Division) Lawachara Forest
19	Development of plantation technique of jigni (<i>Trema orientalis</i>) for pulp production	<ul style="list-style-type: none"> To standardize nursery technique of <i>T. orientalis</i> and To standardize suitable plantation technique of <i>T. orientalis</i> 	Chattogram (Silviculture Research Division)
SOIL CONSERVATION AND WATERSHED MANAGEMENT			
20	Development of degraded hill forest for soil conservation and watershed management in	<ul style="list-style-type: none"> To rehabilitate the degraded hilly land for soil conservation and watershed management and 	Sitakundu and Bandarban (Soil Science)

Sl. No.	Resrerch Title	Objective(s)	Location
	Baraiyadhala National Park, Sitakunda, Chattogram and Bandarban Hill District	<ul style="list-style-type: none"> To involve the local communities for sustainable land management. 	Division)
Breeding and Tree Improvement			
21	Vegetation dynamics and regeneration pattern in relation to salinity and siltation of the Sundarban.	<ul style="list-style-type: none"> To determine the species composition To determine the natural regeneration status of major mangrove species To understand the vegetation dynamics in the Sundarban over time and To assess the impact of salinity and siltation on the change of vegetation 	Sundarban (Mangrove Silviculture Division)
22	Development of tissue culture techniques for different bamboo species viz., farua (<i>Bambusa polymorpha</i>), bhudum (<i>Dendro calamus giganteus</i>), ora (<i>D. longispathus</i>), china bamboo (<i>D. latiflorus</i>), wappi (<i>Thyrsostachys sp.</i>) and pencha (<i>D. hamiltonii</i>)	<ul style="list-style-type: none"> To develop micro-propagation techniques for the selected bamboo species To produce a homogenous plant population and To conserve the plants <i>in vitro</i> forshort to medium term 	Chattogram (Silviculture Genetics Division)
23	Development of tissue culture techniques for African teak oak (<i>Chloro phoraexcelsa</i>) agar (<i>Aquilaria malaccensis</i>), alovera (<i>Aloe indica</i>), boilam (<i>Anisopter ascaphula</i>), lotkon (<i>Baccau reasapida</i>) and tamal (<i>Diospyro smontana</i>)	<ul style="list-style-type: none"> To develop micro-propagation techniques for the species To produce a homogenous plant population and To conserve <i>in vitro</i> plants. 	Chattogram (Silviculture Genetics Division)
24	Development of improved protocols for <i>in vitro</i> plant regeneration of selected rubber (<i>Hevea brasiliensis</i>) clones	<ul style="list-style-type: none"> To establish embryogenic callus culture and plant regeneration protocol via somatic embryogenesis from potential explants of <i>H. brasiliensis</i> To evaluate the <i>in vitro</i> micro-propagation capacity of somatic embryo derived plants and To produce a homogenous plant population of selected rubber clone 	Chattogram (Silviculture Genetics Division)
25	Centralization of high yielding clones of rubber (<i>Hevea brasiliensis</i>) and establishment of orchard	<ul style="list-style-type: none"> To increase the productivity of latex by selecting better yielding rubber plant/ clone Centralization of high yielding clones in hedge orchard. 	Chattogram (Seed Orchard Division)
Production of Quality Planting Materials			
26	Popularizing Quality planting Materials of five important forest tree species (acacia hybrid, agar, neem, segun and	<ul style="list-style-type: none"> To produce and supply of awareness quality planting materials to the planters and To develop awareness about the 	Chattogram (Seed Orchard Division)

Sl. No.	Resrerch Title	Objective(s)	Location
	gamar)	importance and benefits of using quality seeds and seedlings.	
27	Seed storage behaviour of chapalish, gutguttya, neem, horitaki and bohera species	<ul style="list-style-type: none"> To determine a suitable storage condition/medium of forest tree seeds and To strengthen the BFRI seed testing laboratory 	Chattogram (Seed Orchard Division)
28	Large Scale Production of Quality Seedlings of important forest tree species (On-going)	<ul style="list-style-type: none"> To standardize the nursery techniques of different forest tree species To provide quality seedlings to planters for successful plantation establishment and To develop linkages with planters for awareness development about quality seedling 	Chattogram (Silviculture Research Division)
FOREST PESTS AND DISEASES			
29	Insect pest of Ratargul swamp forest in Bangladesh and its management.	<ul style="list-style-type: none"> To assess the present status of insect pest of Raturgul swamp forest To study nature and extent of damage by insect pest To know the biology and ecology of key pests and To develop suitable management techniques for controlling the pest 	Chattogram (Forest Protection Division)
30	Biological control of bacterial and fungal diseases of three medicinal plants : Ghritkumari (<i>Aloe barbadensis</i>), Bashok (<i>Adhatoda vasica</i>) and Kalmegh (<i>Androgra phispaniculata</i>) in Bangladesh.	<ul style="list-style-type: none"> To survey for the disease incidence % of three medicinal plants at major medicinal plant cultivation areas of Bangladesh and identify the causal organism To identify biological control agents against bacterial and fungal pathogens and To find out a management strategy for biological control of important bacterial and fungal diseases of three medicinal plants 	Chattogram (Forest Protection Division)
31	Neem <i>Azadirachta indica</i> A. Juss.) mortality in Northern part of Bangladesh and its management.	<ul style="list-style-type: none"> To explore the spread and also the extent of damage in the Neem plantation areas To find out the primary cause of Neem mortality and To determine suitable control measures of mortality of Neem. 	Chattogram (Forest Protection Division)
Forest Inventory, Growth and Yield			
32	Valuation of ecosystem services in Baraiyadhala National Park, Chittagong	<ul style="list-style-type: none"> Assess the total economic value of selected provisionary, supporting, cultural and regulatory ecosystem 	Chattogram (Forest Economics)

Sl. No.	Reserch Title	Objective(s)	Location
		<p>services from BDNP</p> <ul style="list-style-type: none"> • Understand the significance of the ecosystem services to the local beneficiaries of BDNP and • Recommend the necessary measures for conservation of the BDNP to sustain the ecosystem services. 	Division
33	Impact analysis of "Nursery Pest and Disease Management" technology of Bangladesh Forest Research Institute (BFRI)	<ul style="list-style-type: none"> • To evaluate economic benefit from nursery using “nursery pest and disease management” technique and • To assess local farmer’s attitude towards adopting the technology 	Chattogram (Forest Economics Division)
34	Economic impact assessment of treated rubber wood (<i>Hevea brasiliensis</i>) in Bangladesh.	<ul style="list-style-type: none"> • To estimate tree volume of the matured rubber plantations raised in various year and locations. • To collect previous harvested trees of rubber plantations that recorded converting potential timber from rubber wood. • To assess the relative profitability of potential timber of rubber tree with rubber wood as fuel-wood and • To determine reducing GHG emission due to converting timber from rubber wood. 	Chattogram (Forest Economics Division)
35	Growth and yield assessment of akashmoni (<i>Acacia auriculiformis</i>) and mahogany (<i>Swietenia macrophylla</i>) through establishment of permanent sample plots (PSPs)	<ul style="list-style-type: none"> • To derive mathematical models for determining site index or site classes from tree-site variables for akashmoni and mahogany • To derive reliable growth and yield predication mathematical models for akashmoni and mahogany and • To determine the expected rotation ages of akashmoni and mahogany 	Chattogram (Forest Inventory Division)
36	Growth and yield assessment of mangrove species through establishment of permanent sample plots (PSPs) in coastal plantation of Bangladesh	<ul style="list-style-type: none"> • To generate information on growth and yield of mangrove species planted as under plantation in the costal belt of Bangladesh. • To estimate diameter and height increment rates of these species. • Setting physical rotation of these species. 	Chattogram (Forest Inventory Division)
37	Preparation of volume tables of keora (<i>Sonneratia apetala</i>)	<ul style="list-style-type: none"> • To derive volume equations of keora based on girth at breast height, total height and both. • To prepare volume table of keora. 	Chattogram (Forest Inventory Division)

Sl. No.	Resrerch Title	Objective(s)	Location
Bamboo and Non-Timber Economic Crops			
38	Nursery techniques of three medicinal plants: ankorkanta (<i>Alangiumsalvifolium</i>), sindur (<i>Mallotusphilippinensis</i>) and kau (<i>Garciniacowa</i>)	<ul style="list-style-type: none"> To develop nursery techniques for production of planting materials. To popularize cultivation and use of those medicinal plants. 	Chattogram (Minor Forest Products Division)
39	Germplasm conservation and management practices of different medicinal plants (2 nd phase)	<ul style="list-style-type: none"> To authenticate the correct identification of medicinal plants To conserve medicinal plants for scientific study and demonstration To develop a gene pool of medicinal plants species for propagation purposes To popularize cultivation and use of medicinal plants To determine management techniques for maximum yield of medicinal plants 	Chattogram (Minor Forest Products Division) and
40	Screening of host /nurse plants for raising chandan (<i>Santalum album</i>) plantation	<ul style="list-style-type: none"> To select suitable host plants for raising chandan plantation and To develop plantation and management techniques for sustain yield 	Chattogram (Minor Forest Products Division)
41	Mass propagation of 14 bamboos [borak (<i>Bambusa balcooa</i>), baja(<i>B. vulgaris</i>), kata (<i>B. bambos</i>), ghoti (<i>B. ventricosa</i>), tetua <i>B. jaintiana</i>), farua (<i>B. polymorpha</i>), korjaba (<i>B. salarkhanii</i>), mitinga (<i>B. tulda</i>), hedge (<i>Bambusa sp.</i>), bhudum (<i>Dendrocalamusgiganteus</i>), ora(<i>D. longispathus</i>), brandisi (<i>D. brandisii</i>), dolu (<i>Schizostachyumdullooa</i>) andrengun(<i>Thyrso spachysoliveri</i>)] through branch cuttings and seedlings proliferation.	<ul style="list-style-type: none"> To make available bamboo propagules for wider distribution and dissemination with developed technology and To develop linkage with different stakeholders. 	Chattogram (Silviculture Genetics Division)
Post Harvesting Utilization- Physical Processing			
42	Effect of heat treatment on physical and mechanical properties of Mahogani (<i>Swietenia machrophylla</i>) and Hybrid accacia	<ul style="list-style-type: none"> To investigate the effect of heat treatment on physical and mechanical properties of wood and To assess the suitability of wood for making furniture and construction materials 	Chattogram (Seasoning and Timber Physics Division)
43	Determination of Physical and mechanical properties of Brandisi ansh(<i>Dendrocalamus brandisii</i>) and Thai bansh (<i>Thyrso stachys siamensis</i>).	<ul style="list-style-type: none"> To assess the suitability of wood for making furniture and construction materials. 	Chattogram (Seasoning and Timber Physics Division)

Sl. No.	Reserch Title	Objective(s)	Location
44	Suitability of manufacturing medium density fiberboard (MDF) from hybrid <i>acacia</i> wood.	<ul style="list-style-type: none"> To determine the suitability of medium density fiberboard made from hybrid <i>acacia</i> wood 	Chattogram (Veneer and Composite Wood Product Division)
45	Design Improvement of bamboo composite furniture and popularization of technology.	<ul style="list-style-type: none"> To improve the design of bamboo composite furniture. To disseminate the information to the end-users and To provide technical support to the business initiators for development of entrepreneurship 	Chattogram (Veneer and Composite Wood Product Division)
46	Suitability of manufacturing medium density fiberboard (MDF) made from borak (<i>Bambusa balcooa</i>) bamboos.	<ul style="list-style-type: none"> To determine the suitability of medium density fiberboard made from borak (<i>Bambusa balcooa</i>) bamboos. 	Chattogram (Veneer and Composite Wood Product Division)
47	Characterization of Tetuya Koroi (<i>Albizia odoratissima</i>) wood for working and finishing properties	<ul style="list-style-type: none"> To assess the suitability of Minjiri (<i>Sennasiamea</i>) wood for furniture and other utilization purpose To decrease the pressure on traditional timber species. 	Chattogram (Wood Working and Engineering Division)
Post Harvesting Utilization- Chemical Processing			
48	Extraction of agar oil by steam-distillation.	<ul style="list-style-type: none"> Rapid processing and extraction of agar oil by steam-distillation to ensure higher yield. 	Chattogram (Forest Chemistry Division)
49	Super-hydrophobic coating of finished wood for more durability and self-cleaning.	<ul style="list-style-type: none"> To develop a super hydrophobic coating for finished wood. 	Chattogram (Forest Chemistry Division)
50	Improvement of strength properties of recycle packaging fiber materials	<ul style="list-style-type: none"> To determine the optimum ratio of virgin pulp and reuse pulp in mixture with respect to quality pulp To reduce environment pollution from conventional pulping process To increase strength properties of packaging materials 	Chattogram (Pulp and Paper Division)
51	Response of hydrogen peroxide, environment friendly bleaching agent, on gamar wood (<i>Gmelina arborea</i>) pulp	<ul style="list-style-type: none"> To investigate the bleaching response of H₂O₂ on gamar wood pulp and To determine the optimum condition for pulp bleaching 	Chattogram (Pulp and Paper Division)
52	Effect of preservative treatment on physical and mechanical properties of Am (<i>Mengifera indica</i>), Rubber (<i>Hevea brasiliensis</i>) and Rajkoro (<i>Albizia richardiana</i>) wood	<ul style="list-style-type: none"> To find out the effect of preservative treatment on physical and mechanical properties of wood To determine the treatability and natural durability of wood 	Chattogram (Wood Preservation Division)

Sl. No.	Resrerch Title	Objective(s)	Location
53	Treatability and natural durability of Kala-koroi (<i>Albizia lebbeck</i>) (L.) Benth and Pitali (<i>Trewianudiflora</i>) wood	<ul style="list-style-type: none"> • To evaluate treating schedule of preservative treatment for kala-koroi and pitali wood • To determine outdoor service life of wood after preservative treatment • To disseminate the information to the end-users 	Chattogram (Wood Preservation Division)
54	Effectiveness of Disodium Octaborate Tetrahydrate (DOT) and Zinc chloride (ZnCl ₂) as preservative chemicals.	<ul style="list-style-type: none"> • To determine the treating schedule of preservative treatment of wood and bamboo using DOT and ZnCl₂ solution • To determine the treatability and durability of DOT and ZnCl₂ treated wood and bamboo and • To disseminate the information to the end-users 	Chattogram (Wood Preservation Division)

COTTON DEVELOPMENT BOARD

COTTON DEVELOPMENT BOARD

Sl. No	Research Title	Objectives (s)	Location (s)
BREEDING DICIPLINE (Selection Breeding)			
1	Non-Replicated Progeny Row Trial of Upland cotton	<ul style="list-style-type: none"> To select the superior genotypes for new acquisition trials. 	Mahigonj Farm, Rangpur (Cotton Research Center)
2	Screening of upland cotton (<i>Gossypiumhirsutum</i>) in hilly area	<ul style="list-style-type: none"> To identify the suitable variety for hilly area 	Mahigonj Farm, Rangpur
3	Replicated Progeny Row Trial of Upland cotton	<ul style="list-style-type: none"> To select the superior genotypes for New acquisition trials 	Mahigonj Farm, Rangpur
4	Preliminary yield trial of Upland Cotton	<ul style="list-style-type: none"> To test the yield and quality performance of some newly promising lines through comparing their agronomic and ginning characters with existing standard cultivars. 	Mahigonj Farm, Rangpur (Cotton Research Center) and Dinajpur
5	Advance yield trial of Upland Cotton	<ul style="list-style-type: none"> To compare the agronomic, ginning and quality performance of some advanced lines with superior existing cultivars that currently being multiplied for release to farmers. 	Dinajpur Jessore and Gazipur
6	Candidate variety Trial / Zonal Yield Trial of Upland Cotton	<ul style="list-style-type: none"> To test the yield and adaptability of some advanced lines with the existing cultivars at zonal level in farmers field that currently being multiplied for release to farmers 	Zone of CDB (13)
Hybridization			
7	Heterosis Test and Estimation of General and Specific Combining Ability of the Crossed Genotypes	<ul style="list-style-type: none"> To test the yield and quality performance of the crossed materials through comparing their agronomic and ginning characters with the parents To estimate, heterosis, GCA and SCA. 	Mahigonj Rangpur Cotton Research Center
8	Hybridization of Upland Cotton	<ul style="list-style-type: none"> To assemble and necessary creation of sufficient variability through hybridization and to developed a desire cotton variety. 	Mahigonj Rangpur
Germplasm Maintenance			
9	Collection, Characterization and Conservation of Cotton Germplasm	<ul style="list-style-type: none"> To increase the genetic resources. To know the qualitative and quantities characters of the collected germplasm for future use. 	Mahigonj Rangpur Cotton Research Center
10	Rejuvenation, Characterization and Evaluation of Cotton Germplasm	<ul style="list-style-type: none"> To multiply the germplasm and to identify some better genotypes. 	Mahigonj Rangpur

Sl. No	Research Title	Objectives (s)	Location (s)
11	Evaluation and Characterization of Some Materials of Upland Cotton	<ul style="list-style-type: none"> To select the superior genotypes for new acquisition trials. To evaluate the yield and quality performance of some lines. 	Jagdishpur Jashore Cotton Research Center
12	Morphological Characterization of Cotton Germplasm	<ul style="list-style-type: none"> To Characterize 120 Cotton Genotypes from CDB Germplasm To Facilitate Future use of the Available Germplasm To Facilitate in Establishing IP Rights Cotton Germplasm 	Sreepur Gazipur Jagdishpur and Jashore Cotton Research Center
Mutation Breeding			
13	Evaluation M ₃ mutant population.	<ul style="list-style-type: none"> To select desirable mutants 	Sreepur, Gazipur
14	Evaluation of the Cotton Mutant Varieties Obtained from IAEA	<ul style="list-style-type: none"> To know the performances of the mutant varieties obtained from IAEA in comparison with CDB developed varieties by reducing plant spacing 	Sreepur, Gazipur
15	High Density Planting of Mutant Cotton Genotypes under Rainfed Condition	<ul style="list-style-type: none"> To determine the suitability of M4 mutant populations 	Sreepur, Gazipur Jagdishpur, Jessore and Sadarpur, Dinajpur Cotton Research Center,
16	Evaluation of the Cotton Mutant Varieties Obtained from IAEA	<ul style="list-style-type: none"> To know the performances of the mutant varieties obtained from IAEA in comparison with CDB developed varieties by reducing plant spacing 	Sreepur, Gazipur Jagdishpur and Balaghata Cotton Research Center
AGRONOMY DISCIPLINE			
17	Effect of cotton seedling transplanting age on yield and yield contributing characters	<ul style="list-style-type: none"> To find out the appropriate seedling age for cotton transplanting on the yield and quality of cotton under excessive rainfall To find the effect of seedling age on crop duration 	Sreepur, Gazipur
18	Effect of spacing on the yield of Cotton	<ul style="list-style-type: none"> To find out the appropriate spacing on the yield and quality of cotton 	Sreepur, Gazipur Sadarpur Dinajpur and Jagdishpur Jessore, Cotton Research Center
19	Effect of Harvest Aid Chemicals on Boll Opening, Seed Cotton Yield and Lint Quality of Cotton.	<ul style="list-style-type: none"> To determine defoliation time and chemicals to reduce production cost and increase seed cotton yield and improve fiber quality 	Sreepur Gazipur

Sl. No	Research Title	Objectives (s)	Location (s)
20	Evaluation of Yield performance of a New Promising Cotton Line under Different Plant Spacing	<ul style="list-style-type: none"> To findout the suitable spacing for the highest seed cotton yield 	Jagodishpur, Jashore, Cotton Research Center
21	Effect of De-topping and Mepiquiat Chloride on Cotton Yield	<ul style="list-style-type: none"> To determine the optimum time of detopping To determine the optimum dose of detopping To find out a promising combination of detopping and mepiquat chloride for cotton yield 	Sreepur, Gazipur
22	Irrigation, Nitrogen Fertility, And Seeding Rate Effects On Cotton Yield And Fiber Quality	<ul style="list-style-type: none"> To investigate the effectiveness of rates of nitrogen fertilization under both irrigated and dry land conditions for different seeding rates To understand how to make the most efficient use of any input to incorporate into production strategies 	Sreepur, Gazipur
23	Effects Of Potassium and Fungicide On Cotton Leaf Spot Disease And Yield	<ul style="list-style-type: none"> To study the affect of granular potassium applied prior to planting, and/or a fungicide application at mid-bloom, on the development of Alternaria Leaf Spot and cotton yield. 	Sreepur Gazipur
24	Integrated Nutrient Management with Organic and Inorganic Fertilizer on Yield of Upland Cotton	<ul style="list-style-type: none"> To determine the optimum dose of organic fertilizer for cotton cultivation To find out suitable combination of organic and inorganic fertilizers of upland cotton 	Sreepur, Gazipur Jagadishpur and Sadarpur.
25	Effect of Lime on yield and Yield Contributing Characters of Upland cotton	<ul style="list-style-type: none"> To determine the optimum dose of lime for cotton cultivation 	Sreepur Gazipur
ENTOMOLOGY DISCIPLINE			
26	Field efficacy of some insecticides against sucking insects pest of cotton.	<ul style="list-style-type: none"> To find out the best effective chemical control measure 	Sreepur Gazipur
27	Testing of Some Control Measures in Indigenous Technology Knowledge (ITK) on Red Cotton Bug.	<ul style="list-style-type: none"> To observe the efficiency used of different doses treatments in killing nymph stages of Red Cotton Bug(RCB). 	Balaghata Bandarban Cotton Research Station
28	Documentation of Insect Pests on Upland Cotton Grown in Hilly Area.	<ul style="list-style-type: none"> To set up an experiment to run at different times, to record insect biodiversity on upland cotton. To study the nature of insect pests infesting upland cotton. 	Balaghata Bandarban Cotton Research Station

BANGLADESH SERICULTURE RESEARCH AND TRAINING INSTITUTE

BANGLADESH SUGARCROP RESEARCH INSTITUTE

Sl. No.	Research Title	Objective (s)	Location (s)
MULBERRY SECTION (MULBERRY BREEDING)			
1	i. Collection conservation of mulberry Genetic Resources and Development of Mulberry Varieties ii. Collection conservation and evaluation of mulberry genetic resources iii. Selection of developed mulberry varieties from open pollinated seeds iv. Development of mulberry varieties through hybridization.	<ul style="list-style-type: none"> • To increase the genetic materials of mulberry for further varietal development • To select the develop varieties from open pollinated seeds • To available the mulberry genotyp0e superior to the existing genotype and • To develop the high yielding mulberry varieties 	Rajshahi
MULBERRY SECTION (MULBERRY PATHOLOGY)			
2.	Development of eco-friendly control measures for disease and past management of mulberry plant i. Study on the occurrence of major mulberry disease and pest in the aspect of changing climate ii. Study on the acute infestation period for different diseases and pests in the aspect of changing climates iii. Study of the impact of bio-organic amendments/ botanical extracts on the infestation of major pests diseases and leaf productively iv. Study of the impact of different plantation systems on the infestation of major pests and foliar disease.	<ul style="list-style-type: none"> • To identify the major disease and pest of mulberry plant • To identify the acute infestation period of mulberry disease and pest • To estimate the impact of bio-organic amendments/ botanical extracts on the infestation of major pests diseases and leaf productively and • To estimate the impact of the mulberry plantation system on infestation of major pests and foliar disease 	Rajshahi.
SILKWORM SECTION (SILKWORM BREEDING)			
3.	Selection of silkworm parents for preparing multi × bivoltine silkworm hybrids suitable for favorable season i. Screening of high yielding multi × bivoltine hybrids suitable for Agrohayoni season. ii. Screening of high yielding multi × bivoltine hybrids suitable for Chaita season.	<ul style="list-style-type: none"> • To select season wise hardy hybrid combinations in favorable condition of Bangladesh 	Rajshahi

Sl. No.	Research Title	Objective (s)	Location (s)
SERI CHEMISTRY MULBERRY (NUTRITION)			
4	i. Study on Nutritional properties of different mulberry varieties in stress condition ii. Study on nutritional properties of mulberry varieties at drought condition iii. Study on nutritional properties of mulberry varieties at water logging condition	<ul style="list-style-type: none"> To find out mulberry leaf nutrition at drought condition and To find out mulberry leaf nutrition at water bogging condition 	Rajshahi.
SILK TECHNOLOGY (SILK QUALITY IMPROVEMENT)			
5	Fabrication of post cocoon appliances for quality raw silk production. i. Fabrication of spinning machine with re-reeling devices ii. Comparative study of reeling performance of multi-end reeling machine and cottage basin reeling machine for qualitative and quantitative improvement of raw silk production.	<ul style="list-style-type: none"> Suitable spinning machine will be developed and To find out suitable reeling methods/ devise for improving productivity of quality raw silk production. 	Rajshahi.
MULBERRY SECTION (MULBERRY AGRONOMY)			
6	Updating the recommended fertilizer doses for newly developed mulberry varieties Fertilizer dose up gradation for mulberry variety BM-9 Fertilizer dose up gradation for mulberry variety BM-1 Fertilizer dose up gradation for mulberry variety BM-11	<ul style="list-style-type: none"> To updating the fertilizer doses for newly developed mulberry varieties 	Rajshahi.
SILKWORM PATHOLOGY			
7	Study on the efficacy of some chemicals for controlling silkworm diseases and pests. i. Screening of effective chemicals/disinfectants against bacterial diseases of silkworm. ii. Screening of effective chemicals/disinfectants against viral diseases of silkworm. iii. Screening of effective chemicals / disinfectants against silkworm pests	<ul style="list-style-type: none"> To screening effective disinfectants for controlling silkworm diseases and pest 	Rajshahi.

BANGLADESH FISHERIES RESEARCH INSTITUTE

BANGLADESH FISHERIES RESEARCH INSTITUTE

Sl. No.	Research Title	Objective (s)	Location (S)
MYMENSINGH (FRESHWATER STATION)			
01	Stock Improvement of Major Carps (Ruhu & Catla) and DNA Barcoding of Important Freshwater Fishes in Bangladesh	<ul style="list-style-type: none"> ● To improve Rohu and Catla stocks using DNA technology ● To analyze genetic variability of Rohu and Catla stocks using DNA markers ● To identify freshwater fishes at the species level based on barcoding data and ● To establish a comprehensive barcoding reference database of freshwater fishes in Bangladesh 	Mymensingh (Freshwater Station)
02	Quality bi-sex Seed Production of GIFT Strain through cohort breeding and YY GIFT production using Marker-assisted selection	<ul style="list-style-type: none"> ● To develop MAS-selected YY super males ● To test rate of male offspring in a population 	Mymensingh
03	Culture of Indigenous Small Fishes in Biofloc Aquaculture System (Component-A)	<ul style="list-style-type: none"> ● To observe growth and survival of Shing, (<i>H. fossilis</i>), Pabda, (<i>O.pabda</i>) and Koi, (<i>A. testudineus</i>) in Biofloc system ● To monitor water quality parameters in biofloc aquaculture and ● To analyses the economic benefits of bio-floc system 	Myme singh
04	Ecological Assessment of Haor and Beel Fisheries Population with Bio-physicochemical Properties to Frame EBFM approach (Component A)	<ul style="list-style-type: none"> ● To estimate population ecology of some commercially significant haor and beel resident fishes ● To assess stock of commercially significant haor and beel resident fishes through using modern software packages based on catch and CPUE data and ● To assess bio-physicochemical properties of haor and beel waters with the seasonal variation and ● To assist for framing or formulating ecosystem based management approach of haor and beel with emphasizing to increase productivity and conservation of fisheries resources 	Mymensingh
05	Pure-line breeding of Kalibasu (<i>Labeo calbasu</i>) and production of improved germplasm of carps	<ul style="list-style-type: none"> ● To produce improve pure-line stock of Kalibasu through cross breeding and mass selection techniques ● To evaluate the growth performance of selected pure breeds with non-selected breeds of Kalibasu (generation to generation) ● To upgrade and produce quality seeds of 	Mymensingh

Sl. No.	Research Title	Objective (s)	Location (S)
		carps and distribute to the fish farmer/hatchery owners and <ul style="list-style-type: none"> ● To develop live gene bank with quality brood stocks through implementation of effective breeding plan 	
06	Improvement of freshwater pearl culture techniques in Bangladesh	<ul style="list-style-type: none"> ● Improving existing techniques for producing different types of freshwater pearls ● Estimating economics of pearl culture 	Mymensingh
07	Mass seed production and conservation of endangered important fish species in Bangladesh	<ul style="list-style-type: none"> ● To study the reproductive biology of Giant Snakehead Channamarulius and Jait Puntus Puntius sophore ● To domesticate the Giant Snakehead Channamarulius and JaitPuntusPuntius sophore and ● To optimize the hormone doses for induced breeding of BaimMastacembelusarmatus 	Mymensingh
08	Development and dissemination of nursery and culture techniques of cuchia, <i>Monopteruscuchia</i> (Comp. A. FS)	<ul style="list-style-type: none"> ● To refine rearing technology of baby Eel using different types of feed ● To evaluate Cuchia culture technology using fish paste in plastic dram and pond ecology ● To examine Cuchia culture technology in plastic tray/cage with different stocking density and ● To refine seed production technology by maintaining water depth of pond 	Mymensingh
09	Identificaion of etiological agents responsible for fish diseases using PCR techniques and mitigation measures	<ul style="list-style-type: none"> ● To isolate and identify the causal agents responsible for fish diseases ● Detection of etiological agents based on PCR techniques 	Mymensingh
10	Improving Feeds Formulation and Quality from Conventional and Non-conventional Feed Ingredients Supplementation with Amino Acids for Commercially Important Fish Farming	<ul style="list-style-type: none"> ● To optimize dietary protein to energy ratio (P/E ratio) for commercially important fish species ● To investigate the alternate protein sources from conventional and non-conventional feed ingredients ● To develop feed formulation and quality from conventional and non-conventional feed ingredients in this fish farming and ● To evaluate effect of limiting amino acids supplements for commercially important fish species 	Mymensingh

Sl. No.	Research Title	Objective (s)	Location (S)
11	Development of induced breeding and culture techniques for Mekong giant catfish, <i>Pangas ianodongigas</i>	<ul style="list-style-type: none"> To study of gonadal development and maturation of <i>Pangasianodongigas</i> through diets containing vitamin E and C Developing induced breeding techniques of <i>P. gigas</i> Developing nursing technique of <i>P. gigas</i> 	Mymensingh
12	Development of Breeding Technique of Selected Ornamental Fish	<ul style="list-style-type: none"> To study captive and induced breeding technique of goldfish, <i>Carassius auratus</i> To study captive and induced breeding technique of fancy carp, <i>Cyprinu scarpio</i> var. Koi To study larval rearing technique of goldfish, <i>C. auratus</i> and fancy carp, <i>Cyprinus carpio</i> var. Koi and To study nursery technique of goldfish, <i>C. auratus</i> and fancy carp, <i>C. carpio</i> var. Koi using different types of commercial feed 	Mymensingh
13	Stock improvement and dissemination of Vietnamese white pangas (<i>Pangas ianodon hypophthalmus</i>)	<ul style="list-style-type: none"> To continue the rearing of improved F₁ generation (Group-wise) of Vietnamese white Pangas for the production of F₂ generation through rotational group breeding techniques To compare the growth of F₂ white Pangas with existing stocks of Thai pangas (On station) and To produce Quality seed of Vietnamese white Pangas & distribute to the fish farmer/hatchery owners. 	Mymensingh
FRESHWATER SUB-STATION			
14	Development of induced breeding & culture techniques of Gangetic fish species, Batashi (<i>Ailiacoilia</i>)	<ul style="list-style-type: none"> To develop brood rearing techniques of <i>Ailiacoilia</i> for mass seed production in captive condition To study reproductive parameters of <i>Ailiacoilia</i> To develop induced breeding technique for <i>Ailiacoilia</i> through hormone administration To develop culture technique for <i>Ailia coilia</i> 	Santaher (Freshwater, Sub-station)
15	Development and dissemination of nursery and culture techniques of cuchia, <i>Monopterus cuchia</i> (Comp. B. FSS)	<ul style="list-style-type: none"> To refine rearing technology of baby Eel using different types of feed To evaluate Cuchia culture technology using fish paste in plastic dram and pond ecology To examine Cuchia culture technology in plastic tray/cage with different stocking density and To refine seed production technology by maintaining water depth of the pond 	Santaher
16	Ecological Assessment of Beel Fisheries Population with Bio-	<ul style="list-style-type: none"> To estimate population ecology of some commercially significant beel resident fishes To assess stock of commercially significant haor and beel resident fishes through using 	Santaher

Sl. No.	Research Title	Objective (s)	Location (S)
	physicochemical Properties to Frame EBFM approach (Component B, FSS);	<p>modern software packages based on catch and CPUE data</p> <ul style="list-style-type: none"> ● To assess bio-physicochemical properties of haor and beel waters with the seasonal variation and ● To assist for framing or formulating ecosystem based management approach of <i>haor</i> and beel with emphasizing to increase productivity and conservation of fisheries resources 	
17	Assessment of Fish Production of Some Selective Baors (Oxbow Lakes) in Jashore Region	<ul style="list-style-type: none"> ● To assess the present production of the Baors ● To assess the biodiversity of Baors ● To assess the water quality parameters ● To assess the impact of technical and interventions through organization and by the community 	Jashore (Freshwater, Sub-station)
18	Domestication and Breeding of Needle Fish and Queen Loach	<ul style="list-style-type: none"> ● To domesticate and brood development of <i>Xenodon cancila</i> in captive breeding ● To domesticate and brood development of <i>Botiadario</i> in captive breeding and ● To develop breeding and larval rearing technique of <i>X. cancela</i> and <i>B. dario</i> in captive condition 	Jashore
19	Development and Dissemination of Nursery and Culture Technique of Cuchia, <i>M. cuchia</i> (Component D, FSS)	<ul style="list-style-type: none"> ● To refine rearing technology of baby Eel using different types of feed ● To evaluate Cuchia culture technology using fish paste in plastic dram and pond ecology ● To examine Cuchia culture technology in plastic tray/cage with different stocking density and <p>To refine seed production technology by maintaining water depth of the pon</p>	Jashore
20	Domestication and conservation of some important threatened stream fishes in Northern part of Bangladesh	<ul style="list-style-type: none"> ● To collect the fry/semi-adult/adult of the selected fishes from wild sources ● To study the food and feeding habit and reproductive biology <i>viz</i>; gonadosomatic index (GSI) fecundity, egg diameter, sex ratio of the fishes ● To domesticate and brood development of the fishes in captive condition ● To determine the reproduction response of the selected fishes to different doses of natural and synthetic hormones in captive condition; and ● To develop the larvae and nursery rearing techniques of the selected fishes in captive condition 	Sayedpur (Freshwater, Sub-station)
21	Culture potential of <i>M. vittatus</i> under	<ul style="list-style-type: none"> ● To evaluate the culture potential of tengra with short-cycle species in the seasonal 	Sayedddpur

Sl. No.	Research Title	Objective (s)	Location (S)
	polyculture in farmers pond of northern region of Bangladesh	<p>water bodies of farmers field</p> <ul style="list-style-type: none"> ● To assess the water quality parameters of cultural water bodies ● To assess the BCR of culture technologies ● To disseminate polyculture techniques of tengra in different aqua-ecological zones in the northern part of Bangladesh 	
22	Culture of indigenous small fishes in Biofloc aquaculture system (Component-B, FSS)	<ul style="list-style-type: none"> ● To observe growth and survival of short cycle catfishes viz; Shing, Magur, Pabda, Tengra under Biofloc aquaculture system; ● To determine water quality parameters under Biofloc aquaculture system; ● To analysis the economic benefits of Biofloc system; and ● To disseminate the suitable culture trials of short cycle catfishes under Biofloc aquaculture system in the northern part of Bangladesh. 	Sayeddpur
CHANDPUR (RIVERINE STATION)			
23	Impacts of hydro limnological changes on breeding performance of major carps in the River Halda	<ul style="list-style-type: none"> ● To assess the water discharge level in the river Halda ● To determine the water quality parameters in relation to pollutants and contaminants in the river Halda and ● To assess the breeding performance of major carps in relation to water discharge and quality 	Chandpur (Riverine Station)
24	Development of breeding and seed production techniques of <i>Wallago attu</i>	<ul style="list-style-type: none"> ● To collect and rear <i>Wallago attu</i> for adaptation and domestication in earthen ponds ● To develop culture technique of <i>W. attu</i> in pond condition ● To develop induced breeding techniques for <i>W. attu</i> and ● To develop nursery/ early rearing techniques for newly hatched fry 	Chandpur
25	Assessment of primary productivity and carrying capacity of Hilsa nursery ground	<ul style="list-style-type: none"> ● To asses primary productivity of nursery ground of Hilsa. ● To study the factors affecting primary productivity of nursery ground of Hilsa. ● To assess the carrying capacity of nursery ground of Hilsa and ● To know the carrying capacity through three exhibition stages: initial, prosperity and development. 	Chandpur
26	Population dynamics and stock assessment of Hilsa <i>Tenulo sailisha</i> in	<ul style="list-style-type: none"> ● To determine the temporary and spatial variation of Hilsa demographics in Bangladesh ● To determine the Length-Weight 	Chandpur

Sl. No.	Research Title	Objective (s)	Location (S)
	Bangladesh	<p>relationship and different types of condition factor of Hilsa</p> <ul style="list-style-type: none"> ● To determine the population parameters of Hilsa at different regions of Bangladesh and ● To estimate the MSY, biomass and stock of Hilsa 	
27	Trial on semi natural breeding and early larval rearing of Hilsa for its stock enhancement in the Megna river estuary	<ul style="list-style-type: none"> ● Breeding trial and early larval rearing of Hilsa in the semi-natural condition ● Reassess the previously identified spawning and nursery grounds and ● Identification of Breeding grounds of Hilsa 	Chandpur
RIVERINE SUB-STATION (RANGAMATI)			
28	Development and dissemination of nursery and culture techniques of <i>cuchia</i> , <i>Monopterusuchia</i> (Comp.-C, RSS)	<ul style="list-style-type: none"> ● To develop the nursery technology for juvenile of <i>M. cuchia</i> using different types of feed ● To develop the <i>M. cuchia</i> culture technology using different types of feed and ● To disseminate and popularize of <i>cuchia</i> culture in Chittagong Hill Districts 	Rangamati (Riverine Sub-Station)
29	Diversity of adaptive gears and their impact on Kaptai Lake fisheries	<ul style="list-style-type: none"> ● To identify the gear used in the Kaptai Lake ● To determine the CPUE and catch composition and ● Cataloging fish and gear of Kaptai lake 	Rangamati
30	Adaptation of BFRI evolved cage culture technology of high valued fishes in Kaptai lake environment	<ul style="list-style-type: none"> ● To study the production feasibility of small indigenous fishes in cages ● To monitor the water quality parameters and ● To study the growth and survival of the selective fish species in cage culture 	Rangamati
31	Interrelationship of physico-chemical and biological factors in Kaptai Lake	<ul style="list-style-type: none"> ● To investigate the status of physico-chemical and biological variables (phytoplankton and zooplankton) ● To determine the major physico-chemical factors that control the plankton abundance ● To understand the existing and relationship among plankton abundance and ecological parameters in the Kaptai lake. 	Rangamati
32	Development and dissemination of nursery and culture technique of <i>Cuchia</i> (<i>Monopterus cuchia</i>), (Com-E, KSS)	<ul style="list-style-type: none"> ● To develop the nursery technology for juvenile of <i>M. cuchia</i>. ● To develop grow-out technique of <i>M. cuchia</i> and ● To analyze the cost benefit ratio 	Khepupara (Riverine Sub-station)
33	Fish diversity of the major rivers of Patuakhali District,	<ul style="list-style-type: none"> ● To identify fish species diversity ● To detect the seasonal abundance of fish species 	Khepupara

Sl. No.	Research Title	Objective (s)	Location (S)
	Bangladesh: present status and conservation needs	<ul style="list-style-type: none"> To identify the threatened and alien fish species To detect the trend of major water quality parameters and To establish relationship between climatological factors and fish and fisheries of Patuakhali district 	
34	Identification and bio-activity analysis of some commercially important seaweeds in Mid-Southern (Kuakata beach and its surrounding areas) coast of Bangladesh	<ul style="list-style-type: none"> To identify seaweed species naturally grown in Kuakata coastline areas To find out the potential area for seaweeds in this region To demonstrate culture technique of seaweeds in Kuakata coastline and To investigate bioactive compounds and their activity of certain seaweed 	Khepupara
PAIKGACHA (BRACKISHWATER STATION)			
35	Breeding and seed production of brackishwater finfishes (<i>Scatophagus argus</i> and <i>Pomadasya hasta</i>)	<ul style="list-style-type: none"> To investigate the food and feeding habit and reproductive biology (GSI, fecundity, etc.) of <i>Scatophagus argus</i> and <i>Pomadasya hasta</i>. To develop induced breeding technique of <i>S. argus</i> and <i>P. hasta</i>. 	Paikgacha (Brackish water Station)
36	Development of technique for the culture of brown shrimp (<i>Metapenaeus monoceros</i>)	<ul style="list-style-type: none"> To develop culture technology for the production of brown shrimp, <i>Metapenaeus monoceros</i> (Fab.) in brackish water <i>ghers</i> To evaluate the economic feasibility of production of brown shrimp, <i>M. monoceros</i> (Fab.) in brackish water <i>ghers</i> 	Paikgacha
37	Enhancement of brood stock development of mud crab (<i>Scylla olivacea</i>)	<ul style="list-style-type: none"> To develop gonadal maturation of Mud Crab, <i>Scylla olivacea</i> both in earthen ponds and hatchery conditions To uplift the survival of Crab larvae at different larval stages and improvement of Crab seed production and To enhance culture and fattening of Mud Crab in coastal areas 	Paikgacha
38	Cataloging of coastal fisheries resources of Bangladesh using DNA bar-coding	<ul style="list-style-type: none"> To make a fish and crustacean species inventory based on morphometry and DNA barcode analysis jointly. To make a DNA barcode data for the fish species of coastal rivers, channels and estuary, and adjoined sea side especially of the western and the central coastal zones. To assess genetic diversity and phylogenetic position of identified species 	Paikgacha
39	Application of biofloc to enhance	<ul style="list-style-type: none"> To investigate the interaction of different carbon sources and protein levels on water 	Paikgacha

Sl. No.	Research Title	Objective (s)	Location (S)
	the immune responses of brackishwater shrimp	<p>quality, growth performance and</p> <ul style="list-style-type: none"> To assess the immune responses of black tiger shrimp (<i>Penaeus monodon</i>) cultured under experimental condition 	
40	Improvement of extensive shrimp farming with addition of carbohydrate	<ul style="list-style-type: none"> To increase the heterotrophic bacterial growth through supplying bacterial protein to augment the shrimp production To reduce the demand for supplemental feed protein and subsequent reduction in feed cost and To reduce the toxic inorganic nitrogen levels in the pond as well as effluents. 	Paikgacha
41	Development of pellet free shrimp farming technology using Probiotic and locally available feed ingredients	<ul style="list-style-type: none"> To reduce the feed cost of shrimp farming To minimize the prevalence of disease and To develop low cost shrimp farming model 	Paikgacha
BAGERHAT (SHRIMP RESEARCH STATION)			
42	Breeding biology, domestication and seed production of chakachingri (<i>Penaeus indicus</i>) in Bangladesh	<ul style="list-style-type: none"> To understand the breeding biology of chaka chingri (<i>Penaeus indicus</i>) To develop domestication and seed production protocol for <i>P. indicus</i> and To evaluate the culture potential of <i>P. indicus</i> 	Bagerhat (Shrimp Research Station)
43	Breeding biology, seed production and culture potentiality of Freshwater Snail (<i>Pila globosa</i>) in Bangladesh	<ul style="list-style-type: none"> To understand the breeding biology of Apple Snail (<i>Pila globosa</i>) To develop seed production protocol for <i>P. globosa</i> and Characterize mollusc (e.g. mussels, snails, etc.) species composition and distribution in Sundarban ecosystem of Bagerhat region 	Bagerhat
44	Haemocytic defense in black tiger shrimp (<i>Penaeus monodon</i>) using diversified lipid A-core oligosaccharide molecules to cope with WSSV infection	<ul style="list-style-type: none"> To identify suitable gram negative bacteria as a better immune-modulators and To develop effective administration methods of LPS to boost immunity in shrimp 	Bagerhat
45	Bioaccumulation of hazardous organochlorine pesticides and antibiotics in shrimp and its impact on human health	<ul style="list-style-type: none"> To assess bioaccumulation of pesticides in cultured and wild shrimp/prawn and To assess the risk of pesticides residues on human health 	Bagerhat

Sl. No.	Research Title	Objective (s)	Location (S)
46	Metagenomic Approach to Detect Pathogenic Agents in Shrimp/ Prawn Aquaculture in Bangladesh	<ul style="list-style-type: none"> To develop a checklist of available pathogens within the host and culture environment and To have insight into the path biome of the major diseases 	Bagerhat
47	Develop a Structural Design for Substrate to Increase Primary Production in Concern of Low Cost Shrimp Farming	<ul style="list-style-type: none"> To design a substrate with low volume and high surface area To make substrate using low cost material To reduce the production cost for shrimp culture and To compare the production of traditional and substrate base shrimp culture system with their cost benefit analysis 	Bagerhat
48	Formulation of Omega-3 enriched Shrimp Feed using Low Cost Fish from Coastal Area	<ul style="list-style-type: none"> Screening Omega-3 fatty acid/ PUFA from different available low cost fish at local area and choose high content of Omega-3 fatty acid/ PUFA fish for feed formulation To compare the growth development of shrimp using local/commercial feed and formulated feed and To compare Omega-3 fatty acid/ PUFA in shrimp after cultivation with formulated feed 	Bagerhat
49	Development of culture practice of Sea bass (<i>Latescal carifer</i>) in the southwest coast of Bangladesh using net cages tidal river system	<ul style="list-style-type: none"> To estimate the growth performance and survival of Bhetki fry under different stocking density in floating cages To observe the biometric performance (growth, survival, FCR, SGR) of Bhetki fry and juveniles under different stocking density in floating cages To observe the growth of Bhetki fry under different feeding regimen and To observe the possibility of broodstock development using net cages tidal river system. 	Bagerhat
50	Development of Ecofriendly Shrimp Farming Using Aquamimicry (Pellet Free) Technique in Bangladesh	<ul style="list-style-type: none"> To enrich the natural food organism in pond water To minimize the prevalence of disease To reduce the production cost of shrimp farming and To develop ecofriendly shrimp farming model 	Bagerhat
COX'S BAZAR (MARINE FISHERIES AND TECHNOLOGY STATION, MFTS)			
51	Investigation on the spawning season of commercially important marine fishes of the Bay of	<ul style="list-style-type: none"> To estimate the spawning and peak spawning season of commercially important marine fish and shellfish To calculate the size at sexual maturity of commercially important marine fish 	Cox's Bazar (Marine Fisheries and Technology Station)

Sl. No.	Research Title	Objective (s)	Location (S)
	Bengal, Bangladesh coast	<ul style="list-style-type: none"> To analyze hard part (Otolith) for age estimation of commercially important marine fishes of Bangladesh AND To justify the existing imposed banning period for commercially important marine fish of the Bay of Bengal 	
52	Development of culture of seaweeds in south-eastern coast of Bangladesh	<ul style="list-style-type: none"> To make a detailed inventory of available seaweed species in Bangladesh coast To develop culture technique of seaweed in St. Martin and other suitable areas To develop culture technique of selected seaweed at different culture system and To develop value added products from selected seaweeds 	Cox's Bazar
53	Development of culture technique for live feed isolated from the Bay of Bengal	<ul style="list-style-type: none"> To identify the commercially important microalgae from the Bay of Bengal To scale up the identified microalgae in vitro condition and To investigate the nutritional status of identified microalgae 	Cox's Bazar
54	Breeding and seed production of mud crab <i>Scylla</i> spp.	<ul style="list-style-type: none"> To domesticate mud crab (<i>Scylla olivacea</i>) brood stock under captive/ hatchery conditions To develop breeding technology in captivity To develop larval rearing technique and To develop nursery management technique 	Cox's Bazar
55	Breeding and culture of potential marine oyster in the Bay of Bengal Bangladesh coast	<ul style="list-style-type: none"> To develop culture techniques of oyster in Moheshkhali, Sonadia and other suitable areas To domesticate the oyster brood stock and develop breeding techniques of oyster in captivity and To develop larval rearing techniques of oyster 	Cox's Bazar
56	Development of Maricultural Practices Some Important fin fishes Sea bass, Mulleti the South-east Coast of Bangladesh	<ul style="list-style-type: none"> To select suitable sites for promoting mariculture i.e. cage culture through stocking commercially viable marine fishes (Seabass, Mulletts) To develop a proper nursery and grow-out management protocols for cage culture suitable species (Mulletts, Seabass) To optimize stocking density, analyze growth, mortality and production in the period of cage rearing and To develop proper cage culture technique and piloting mariculture practices with co-management 	Cox's Bazar

Sl. No.	Research Title	Objective (s)	Location (S)
MYMENSINGH (BFRI, HQ)			
57	Field validation of selected high valued fish culture technologies for maximizing production	<ul style="list-style-type: none"> ● To validate the intensive culture of Shing (<i>H. fossilis</i>) in farmer's pond ● To validate the integrated rice-fish farming technique in farmer's field ● To demonstrate the polyculture of Koi, Shing and monosex GIF Tilapia technology will be popularized; and ● To analyze the economic benefit of the trials 	Mymensingh (HQ)

BANGLADESH LIVESTOCK RESEARCH INSTITUTE

BANGLADESH LIVESTOCK RESEARCH INSTITUTE

Sl. No.	Research Title	Objective (s)	Location (S)
POULTRY PRODUCTION RESEARCH DIVISION			
1	Conservation and Improvement of Native Chicken: performance of eighth generation	<ul style="list-style-type: none"> • To assess the performances of three indigenous chicken genotypes under intensive management • To select parental birds (males and females) and breed them in an assortative plan for the production of eighth generation birds and • To study the comparative performances of improved three indigenous chickens and kadaknath chicken 	Savar Poultry Research Farm
2	Conservation and Improvement of Quail: Performance of ninth generation	<ul style="list-style-type: none"> • To increase the fifth week body weight of Dhakai and BB-white quail through selective breeding and • To select parental birds (males and females) and breed them in an assortative plan for the production of 9th generation birds 	Poultry Research Farm
3	Conservation and improvement of exotic germ plasms of chicken and development of egg and meat type chicken	<ul style="list-style-type: none"> • To disseminate, refinement, up scaling and popularization of BLRI developed egg (Shuvra, Shorna) and meat type chicken (MCTC) • Maintenance, conservation and improvement of four pure lines of chicken • Collection, conservation and improvement of Somali parents and • To estimate inbreeding coefficient to improve chicken pure lines under intensive management condition 	Poultry Research Farm
4	Conservation and improvement of native duck and geese genotypes	<ul style="list-style-type: none"> • To assess the reproductive performance of two native duck genotypes under intensive management and • To compare the laying performance of 6th generation of two native duck genotypes under intensive management condition 	Poultry Research Farm
ANIMAL PRODUCTION RESEARCH DIVISION			
5	Low Cost and Sustainable Business Model Development of Bio-slurry Management	<ul style="list-style-type: none"> • To explore the potentiality of bio-slurry water on controlling pests of crop field and • To develop sustainable commercialization model of bio-slurry 	Animal Large Farm (Pachrtia)

Sl. No.	Research Title	Objective (s)	Location (S)
6	Carbon footprint of different livestock production systems in Bangladesh	<ul style="list-style-type: none"> To estimate the CFP of milk production at commercial farms and at subsistence farming system and To examine the effects of supplementing Moringa on energy utilization efficiency and productivity of cows 	Animal Large Farm (Pachrtia)
7	Strategic development of beef cattle and their qualities in Bangladesh	<ul style="list-style-type: none"> To develop suitable beef breed (s) using selective exotic beef sires and native dams To develop feeding and management system for crossbred beef progeny To determine meat production efficiency and quality of different beef genotypes at market age and To develop terminal beef cattle of average 200.0 kg carcass weight at 2 years of age 	Animal Large Farm (Pachrtia)
8	Study of genetic variants of beta-casein in cattle genotypes of Bangladesh	<ul style="list-style-type: none"> To identify genetic variability (A1/A2) of beta-casein in existing cattle genotypes of Bangladesh 	Animal Large Farm (Pachrtia)
9	Evaluation of Moringa (Sajna) Feed for Livestock Production	<ul style="list-style-type: none"> Validation of Moringa agronomy in different climatic zones of Bangladesh Evaluation of seedling performance, biomass production and nutritional quality of different moringa varieties through different agronomic management practices Validation and response of moringa feed on milk and beef production of cross breed cow at farmers level and Production and supply chain development of Moringa feed in different regions of Bangladesh 	Animal Large Farm (Pachrtia)
10	Implementation of HACCP System at BLRI Research Farm –A: Effect on Herd Health and Milk Quality	<ul style="list-style-type: none"> Previous and existing management related data will be documented for the BLRI Research Farm and existing Dairy Farm Hazards and Critical points of herd health and fresh milk production will be identified and documented. Development of Farm Management component: Techniques for managing the critical control points and Protocol will be prepared to publish for a better management of dairy herd using HACCP across Bangladesh 	Animal Large Farm (Pachrtia)

Sl. No.	Research Title	Objective (s)	Location (S)
11	Determination of best practice management of Napier grass to doubling the milk production of cows	<ul style="list-style-type: none"> To increase the yield and nutritive value of Napier grass (cut and carry system) to increase small-holder milk production by determining the cutting height and severity for optimal re-growth. To determine the association between WSC in stubble and yield to give a physiological basis for differences in re-growth To understand physiology to build up management guidelines of cut and carry of Napier grass in small-holder dairy/beef system and Conservation and improvement of existing fodder germplasm in BLRI 	Animal Large Farm (Pachrtia)
12	Collection, conservation, multiplication of high yielding fodder and evaluation their production performances under different climatic conditions	<ul style="list-style-type: none"> To conserve different high yielding varieties of fodder germplasms To ensure year-round availability of fodder cutting for distribution of farmers and To develop standard methods of production for different HYV fodder crops 	Animal Large Farm (Pachrtia)
13	Up-gradation and diversification of value addition technologies of livestock products and by-products	<ul style="list-style-type: none"> To identify the existing marketing system of processed meat and meat products in Bangladesh To determine the keeping quality or shelf life of developed canned meat throughout the year To evaluate the nutritional, microbial and sensory quality of canned meat during preservation and To identify the suitable preservatives for long time preservation of canned meat 	Animal Large Farm (Pachrtia)
ANIMAL HEALTH RESEARCH DIVISION			
14	Investigation of Lumpy Skin Disease (LSD) in Bangladesh	<ul style="list-style-type: none"> To determine the occurrence of LSD in the study area and To detect Lumpy skin disease virus (LSDV) by means of polymerase chain reaction (PCR) 	Animal Health laboratory
15	Surveillance and molecular of highly pathogenic avian influenza virus (HPAIV) in Bangladesh	<ul style="list-style-type: none"> Detection and isolation of HPAIVs (focusing on A/H5N1, A/H5N6, H5N2, H5N8 and H9N2) at farm Identify the molecular evolution of influenza viruses and 	Animal Health laboratory

Sl. No.	Research Title	Objective (s)	Location (S)
		<ul style="list-style-type: none"> Implementation of community bio security model in selected area 	
16	Adaptation and attenuation of duck plague virus in chicken embryo fibroblast cell as vaccine seed	<ul style="list-style-type: none"> To isolate, identify and characterize DPV from suspected ducks of different regions in Bangladesh by bio-molecular methods. To adapt the of virulent strain of DPV by several passages in suitable host systems like in developing duck embryo and chicken embryo fibroblast cell culture To develop live attenuated vaccine strain from field identified DPV isolate and To find out the efficacy of commercially available biosecurity materials towards DPV using in- vitro condition 	Animal Health laboratory
17	Monitoring of Foot and Mouth Disease Virus circulating in Bangladesh and Molecular Characterization	<ul style="list-style-type: none"> Outbreak investigation of FMD virus Molecular genetic analysis of identified FMD Virus 	Animal Health laboratory
18	Molecular Characterization of Babesia, Anaplasma and Theileria spp From Suspected Ruminants and Formulation of Vaccine	<ul style="list-style-type: none"> Molecular Characterization of Babesia, Anaplasma and Theileria spp from Suspected Ruminants and Formulation of Blood Protozoan Vaccine 	Animal Health laboratory
19	Monitoring of Peste des Petitis Ruminants (PPR) virus and Peste des Petitis Ruminants (PPR) like diseases in Bangladesh	<ul style="list-style-type: none"> Development of PPR vaccine seed from local isolates in collaboration with Bangladesh agricultural university and Molecular genetic analysis of identified vaccine isolates 	PPR Laboratory
20	Evaluation of Goat pox vaccine produce in Livestock Research Institute, Department of Livestock Service.	<ul style="list-style-type: none"> To evaluate the present status of existing goat pox vaccine seed of LRI, DLS. 	Animal Health laboratory
GOAT AND SHEEP PRODUCTION RESEARCH DIVISION			
21	Conservation and Improvement of Jamuna pari Goat at Bangladesh Livestock Research Institute (BLRI)	<ul style="list-style-type: none"> Conservation and improvement of Jamuna pari goat through selective breeding and To study the productive and reproductive performance of Jamuna pari goat 	Sheep and Goat Farm

Sl. No.	Research Title	Objective (s)	Location (S)
22	Conservation and improvement of native sheep at Bangladesh Livestock Research Institute (BLRI)	<ul style="list-style-type: none"> • Development of superior native sheep germplasm and their improvement at BLRI • To study the productive and reproductive performance of native sheep and Utilization of candidate genes polymorphisms associated with prolificacy trait in native sheep 	Sheep and Goat Farm
23	Validation of BLRI improved Native sheep at community level in selected areas of Bangladesh	<ul style="list-style-type: none"> • To establish BLRI improved native sheep production farming community in selected areas and • To improve livelihood of community farmer through rearing BLRI improved native sheep 	Naikhongchari (Regional Station)
24	Production and evaluation of crossbred sheep of Coastal with Damara, Dorper and Parendale	<ul style="list-style-type: none"> • Evaluation of the productive and reproductive performances of different crossbred genotypes and • Evaluation of the adaptability of different crossbred genotypes in hot and humid climatic conditions 	Sheep and Goat Farm
25	Adaptation of high yielding exotic sheep breeds and production of upgraded crossbred	<ul style="list-style-type: none"> • To adapt high yielding exotic sheep breeds in our climatic condition • To evaluate the productive and reproductive performances of different crossbred genotypes and • To evaluate the adaptability of different crossbred genotypes in hot and humid climatic conditions 	Sheep and Goat Farm
SOCIO-ECONOMIC RESEARCH DIVISION			
26	Impact of dairy initiatives taken at post-2000 in northern Bangladesh on production and consumption status of dairy products	<ul style="list-style-type: none"> • To accumulate the information regarding dairy initiatives in Northern Bangladesh after 2000 • To revisit the impact of dairy initiatives on production • To study the efficiency of value chain after those initiatives have been taken and • To formulate policy recommendation 	Rajshahi (Regional Station)
27	Impact of Cattle Feeding Innovation by BLRI on Dairy Development in Bangladesh	<ul style="list-style-type: none"> • To evaluate the innovation performance by BLRI of common feedstuffs fed to dairy cows • To assess the impact of feeding innovation practices of fed on lactating dairy cows and • To identify innovation diffusion process for improved milk yield and body weight changes of lactating cow 	Selected Areas of BLRI

Sl. No.	Research Title	Objective (s)	Location (S)
BIOTECHNOLOGY RESEARCH DIVISION			
28	Genetic improvement of indigenous buffalo through cross breeding	<ul style="list-style-type: none"> To evaluate the production performance of crossbred buffalo and Validation of estrus synchronization technology at on-station and on-farm 	Buffalo Farm (BLRI)
29	Conservation and improvement of Munshiganj cattle	<ul style="list-style-type: none"> To screen promising cows and bulls from their habitat to enrich the nucleus herd and To produce superior progenies from the promising dams and sires 	Large Animal Research Farm (Pachutia)
30	Development of starter culture for Yogurt	<ul style="list-style-type: none"> To isolate, identify, property study and molecular characterization of probiotic bacteria for yogurt preparation and To develop a suitable starter culture for yogurt preparation at consumer level 	Savar (Bio-Technology Lab.)
31	Efficient management of livestock and poultry waste for value addition and pollution control	<ul style="list-style-type: none"> To study the effect of manure and bio-slurry on soil and water contamination To develop an efficient system for bio-slurry management in poultry waste based biogas plant and To develop an affordable biogas filtration systems for promoting value added use of biogas 	Large Animal Research Farm (Pachutia)
32	Development of microbial silage inoculant and evaluation of its efficacy on ensiling roughages	<ul style="list-style-type: none"> Isolation, identification, biochemical properties study and molecular characterization of suitable microbes to be used as inoculant To develop microbial inoculant for ensiling fodder To test the efficacy of developed inoculant in fodder preservation and To increase availability of unconventional roughages beyond their harvest period through better ensiling assisted by microbial inoculants 	Large Animal Research Farm (Pachutia)
33	Somatic cell nuclear transfer (SCNT) technologies for cattle in Bangladesh	<ul style="list-style-type: none"> Development of somatic cell nuclear transfer technology (SCNT) for cloned cattle embryo production and Development of cloned embryo transfer protocol for cattle 	Savar, Bio-Technology Lab.

Sl. No.	Research Title	Objective (s)	Location (S)
34	Whole genome re-sequencing of Goyal (<i>Bos frontalis</i>) and genome annotation to unveil genetic variation to explore the evaluation and adaptation at genome level	<ul style="list-style-type: none"> To develop a whole genome of Gayal (<i>Bos frontalis</i>) with high sequence coverage (15X) using state-of-the-art next generation sequencing (NGS) approach and other modern computational biology tools To describe genotypic variation and genome wide association (GWA) studies with different phenotypes, evolution and adaptation To foster comparative genomics to identify gene(s) associated with o evaluate the productive and reproductive performances of HBB goats, Hilly chickens, gayal and deer and their improvement and conservation at Naikhongchari To know the influence of dietary supplementation on growth and carcass traits of HBB goats and To find out the current herd structure of gayal and their dynamic movement at Hill tract areas. different important traits of Gayal (eg. Adaptation, high prolificacy, muscle strength) and To strengthen national and international collaboration towards capacity building and human resource development to promote Gayal conservation 	Naikhonchari (Regional Station) and Bio-Technology Lab.,)
FARMING SYSTEM RESEARCH DIVISION			
35	Development of Model village through BLRI Technologies at Dhamrai areas	<ul style="list-style-type: none"> livestock technologies for increasing productivity To observe the impact of technological interventions on socioeconomic status of farm families Identification of constraints to adoption and determine the causes circumscribing the sustainability of technologies at farm level To suggest feedback to the scientists for refinement of technologies and To acquaintance with the technologies and their adaptation 	Dhamrai, Dhaka
36	Design and Development of Products from Native Sheep Skin	<ul style="list-style-type: none"> To assess the properties (physicals and chemicals) of sheep skin and To produce leather products from native sheep skin 	Sheep and Goat Farm

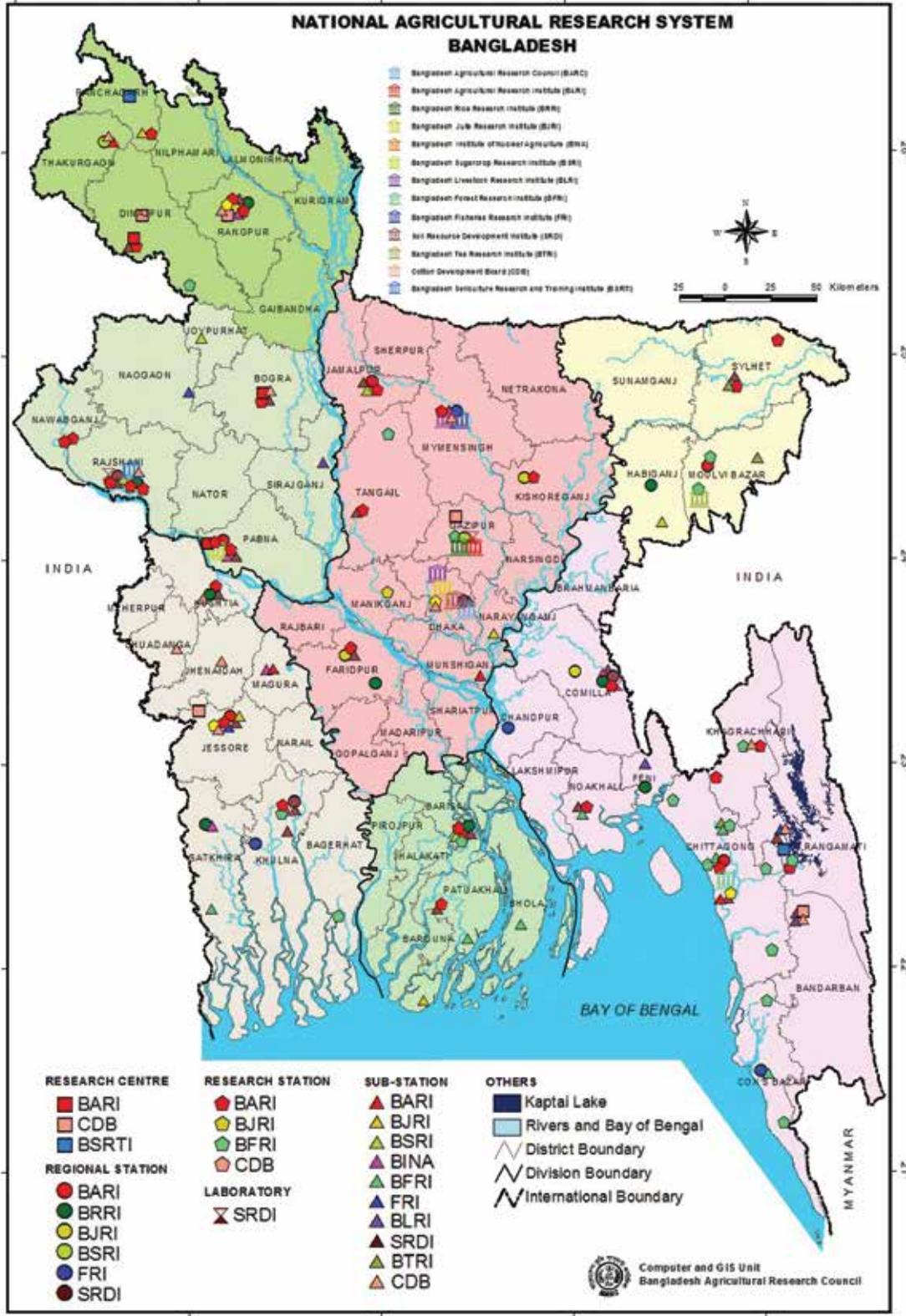
Sl. No.	Research Title	Objective (s)	Location (S)
37	Conservation and Improvement of Farm Animal Genetic Resources (FAnGR) at Hilly Region at Naikhongchari	<ul style="list-style-type: none"> To evaluate the productive and reproductive performances of HBB goats, Hilly chickens, gayal and deer and their improvement and conservation at Naikhongchari To know the influence of dietary supplementation on growth and carcass traits of HBB goats and To find out the current herd structure of gayal and their dynamic movement at Hill tract areas 	Naikhon chari (Regional Station)
38	Production and adaptation of Bio-char as Soil amendment and C-sequestration for sustainable improvement of soil fertility in Sandy Soil	<ul style="list-style-type: none"> Production of bio-char from rice husk and field crops residues and their characterization Improvement of fodder crop yield Improvement of soil fertility and soil quality and Improvement of soil moisture conservation and soil carbon content 	Sirajganj (Regional Station)
TRAINING, PLANNING AND TECHNOLOGY TESTING DIVISION			
39	Studies on the Farmers Innovative Technologies for Livestock Production in Bangladesh	<ul style="list-style-type: none"> Identification of farmer's innovative techniques for livestock production and management systems in different locations in Bangladesh Assessment of these techniques in view on income and employment and Screening the most suitable techniques for refinement and feed back to the scientist for future research 	Sirajganj (Regional Station)
40	Compilation of training data and impact of farmers on adaptation of BLRI development technologies for last ten years	<ul style="list-style-type: none"> To identifying the determinants of empowerment of rural women in selected areas To analyze the factor influencing to adoption of technology in poultry rearing. To observe the impact of family poultry on livelihood improvement and To suggest some policy recommendations based on the findings. 	Training, Planning and Technology Division (BLRI)

NATIONAL AGRICULTURAL RESEARCH SYSTEM BANGLADESH

-  Bangladesh Agricultural Research Council (BARC)
-  Bangladesh Agricultural Research Institute (BARI)
-  Bangladesh Rice Research Institute (IRRI)
-  Bangladesh Jute Research Institute (BJRI)
-  Bangladesh Institute of Nuclear Agriculture (BINA)
-  Bangladesh Sugarcane Research Institute (BSRI)
-  Bangladesh Livestock Research Institute (BLRI)
-  Bangladesh Forest Research Institute (BFRI)
-  Bangladesh Fisheries Research Institute (BFRI)
-  Soil Resource Development Institute (SRDI)
-  Bangladesh Tea Research Institute (BTRI)
-  Cotton Development Board (CDB)
-  Bangladesh Sericulture Research and Training Institute (BSRTI)



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RESEARCH CENTRE

-  BARI
-  CDB
-  BSRTI

REGIONAL STATION

-  BARI
-  BRRRI
-  BJRI
-  BSRI
-  FRI
-  SRDI

RESEARCH STATION

-  BARI
-  BJRI
-  BFRI
-  CDB

LABORATORY

-  SRDI

SUB-STATION

-  BARI
-  BJRI
-  BSRI
-  BINA
-  BFRI
-  FRI
-  BLRI
-  SRDI
-  BTRI
-  CDB

OTHERS

-  Kaptai Lake
-  Rivers and Bay of Bengal
-  District Boundary
-  Division Boundary
-  International Boundary



Computer and GIS Unit
Bangladesh Agricultural Research Council

