

## Grant No. 39

## 43 - Ministry of Agriculture

## Medium Terms Expenditure

(Taka in Thousands)

Description	Budget 2017-18	Projection	
		2018-19	2019-20
Non-Development	11804,28,00	12032,42,00	12254,80,00
Development	1799,88,00	1979,87,00	2177,85,00
<b>Total</b>	<b>13604,16,00</b>	<b>14012,29,00</b>	<b>14432,65,00</b>
Revenue	12526,77,49	12584,93,66	12611,87,57
Capital	1077,38,51	1427,35,34	1820,77,43
<b>Total</b>	<b>13604,16,00</b>	<b>14012,29,00</b>	<b>14432,65,00</b>

**1.0 Mission Statement and Major Functions****1.1 Mission Statement**

Ensure food security by enhancing productivity and increasing production of crops with more nutrient value as well as diversification of crops, improving marketing system and increasing farmers' income.

**1.2 Major Functions**

- 1.2.1 Agricultural research and education program;
- 1.2.2 Agricultural extension and training;
- 1.2.3 Production, standardization, certification, preservation and distribution of quality seeds;
- 1.2.4 Soil survey and examination of the quality of soil, and recommendations;
- 1.2.5 Preservation and marketing of agricultural products;
- 1.2.6 Agricultural support and rehabilitation;
- 1.2.7 Collection, distribution, innovation, procurement and management of agricultural inputs and machinery;
- 1.2.8 Minor irrigation programs.

**2.0 Medium Term Strategic Objectives and Activities**

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
1. Increased production and productivity of crops	<ul style="list-style-type: none"> <li>• Innovate high yielding varieties of different crops, and technologies</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Rice Research Institute</li> <li>• Bangladesh Institute of Nuclear Agriculture</li> <li>• Bangladesh Agricultural Research Institute</li> <li>• Bangladesh Agricultural Research Council</li> <li>• Bangladesh Jute Research Institute</li> </ul>

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
		<ul style="list-style-type: none"> <li>• Bangladesh Sugarcrop Research Institute</li> <li>• Cotton Development Board</li> </ul>
	<ul style="list-style-type: none"> <li>• Innovate technologies and varieties of rice and other crops tolerant to salinity, drought, water submergence and other adverse conditions.</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Rice Research Institute</li> <li>• Bangladesh Institute of Nuclear Agriculture</li> </ul>
	<ul style="list-style-type: none"> <li>• Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops</li> </ul>	<ul style="list-style-type: none"> <li>• Department of Agricultural Extension</li> <li>• Bangladesh Agricultural Research Institute</li> <li>• Bangladesh Agriculture Development Corporation</li> <li>• Bangladesh Rice Research Institute</li> <li>• Bangladesh Institute of Nuclear Agriculture</li> <li>• Bangladesh Jute Research Institute</li> <li>• Bangladesh Sugar-crop Research Institute</li> <li>• Seeds Certification Agency</li> <li>• Cotton Development Board</li> <li>• Agriculture Information Service</li> <li>• Barendra Multipurpose Development Authority</li> <li>• Bangladesh Agricultural Research Council</li> <li>• National Agricultural Training Academy</li> </ul>
	<ul style="list-style-type: none"> <li>• Provide e-agriculture information services</li> </ul>	<ul style="list-style-type: none"> <li>• Department of Agricultural Extension</li> <li>• Agriculture Information Service</li> <li>• Bangladesh Rice Research Institute</li> <li>• Bangladesh Agricultural Research Institute</li> <li>• Soil Resource Development Institute</li> </ul>
	<ul style="list-style-type: none"> <li>• Increase awareness about food value and nutrition through publications, meetings and workshops</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Institute Research and Training on Applied Nutrition</li> <li>• Agriculture Information Service</li> <li>• Department of Agricultural Extension</li> </ul>
2. Increased supply and affordability of agricultural inputs	<ul style="list-style-type: none"> <li>• Ensure supply of Fertilizers and other inputs at administered prices</li> </ul>	<ul style="list-style-type: none"> <li>• Department of Agricultural Extension</li> <li>• Bangladesh Agriculture</li> </ul>

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
		Development Corporation
	<ul style="list-style-type: none"> <li>Procure of irrigation and other agricultural machineries and increasing their availability</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Agriculture Development Corporation</li> <li>Barendra Multipurpose Development Authority</li> </ul>
	<ul style="list-style-type: none"> <li>Expand minor irrigation coverage by encouraging optimal use of surface water, and increasing the area of arable land by reducing water logging and submergence</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Agriculture Development Corporation</li> <li>Barendra Multipurpose Development Authority</li> </ul>
	<ul style="list-style-type: none"> <li>Production, certification, preservation and distribution of breeder, foundation, certified and truthfully labelled seeds</li> </ul>	<ul style="list-style-type: none"> <li>Department of Agricultural Extension</li> <li>Bangladesh Agricultural Research Institute</li> <li>Bangladesh Agriculture Development Corporation</li> <li>Bangladesh Rice Research Institute</li> <li>Bangladesh Nuclear Agriculture Research Institute</li> <li>Seed Certification Agency</li> <li>Bangladesh Jute Research Institute</li> <li>Cotton Development Board</li> <li>Bangladesh Sugar-crop Research Institute</li> <li>Barendra Multipurpose Development Authority</li> </ul>
	<ul style="list-style-type: none"> <li>Production, certification, preservation and distribution of breeder, foundation and truthfully labelled seeds with adaptability to adverse environment (salinity, draught and water submergence)</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Rice Research Institute</li> <li>Bangladesh Nuclear Agriculture Research Institute</li> <li>Seed Certification Agency</li> <li>Bangladesh Agriculture Development Corporation</li> <li>Department of Agricultural Extension</li> <li>Bangladesh Agricultural Research Institute</li> <li>Bangladesh Jute Research Institute</li> <li>Cotton Development Board</li> <li>Bangladesh Sugar-crop Research Institute</li> </ul>
	<ul style="list-style-type: none"> <li>Ensuring standardization of seeds</li> </ul>	<ul style="list-style-type: none"> <li>Seed Certification Agency</li> </ul>
<ul style="list-style-type: none"> <li>Encouraging participation of the private sector in production and development of seeds through meetings, seminars, fairs</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Agricultural Research Institute</li> <li>Bangladesh Agriculture</li> </ul>	

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
	and of technology exchange	Development Corporation <ul style="list-style-type: none"> <li>Bangladesh Jute Research institute</li> <li>Cotton Development Board</li> <li>Seed Certification Agency</li> </ul>
	<ul style="list-style-type: none"> <li>Marketing and ginning of cotton seed</li> </ul>	<ul style="list-style-type: none"> <li>Cotton Development Board</li> </ul>
3. Development and maintenance of agricultural land resource base management	<ul style="list-style-type: none"> <li>Identification of soil and land resources through soil survey and classification of land and soil resources in terms of their productivity</li> </ul>	<ul style="list-style-type: none"> <li>Soil Resource Development Institute</li> </ul>
	<ul style="list-style-type: none"> <li>Extension of soil test facilities to Upazilla and Union levels</li> </ul>	<ul style="list-style-type: none"> <li>Soil Resources Development Institute</li> </ul>
	<ul style="list-style-type: none"> <li>Popularizing the use of organic fertilizer, green manure and microbial fertilizer among the farmers</li> </ul>	<ul style="list-style-type: none"> <li>Department of Agricultural Extension</li> <li>Agriculture Information Service</li> <li>Bangladesh Institute of Nuclear Agriculture</li> <li>Soil Resource Development Institute</li> </ul>
	<ul style="list-style-type: none"> <li>Popularizing sustainable soil management technologies among the farmers</li> </ul>	<ul style="list-style-type: none"> <li>Soil Resources Development Institute</li> <li>Department of Agricultural Extension</li> </ul>
4 Support in supply, processing and effective marketing of agricultural products.	<ul style="list-style-type: none"> <li>Publicity and preservation of information on agricultural marketing and development</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture Information Service</li> <li>Cotton Development Board</li> </ul>
	<ul style="list-style-type: none"> <li>Development and maintenance of market infrastructure and provide other supports</li> </ul>	<ul style="list-style-type: none"> <li>Department of Agriculture Marketing</li> </ul>
	<ul style="list-style-type: none"> <li>Providing technological support and technical assistance to agricultural entrepreneurs and encouraging their investment in agro-processing and agro-business</li> </ul>	
	<ul style="list-style-type: none"> <li>Coordination among concerned public and private departments/institutions for expansion of marketing facilities</li> </ul>	<ul style="list-style-type: none"> <li>Secretariat</li> </ul>

### 3.0 Poverty and Gender Reporting

#### 3.1 Impact of Medium Term Strategic Objectives on Poverty Reduction and Women's Advancement

##### 3.1.1 Increased production and productivity in the crop sector

**Impact on poverty reduction:** Innovation and extension of different varieties of high yielding paddy, wheat and other crops, tolerant to saline, draught and water submergence, and transfer of technologies, providing

agriculture related information through e-agriculture, and higher education and training for agriculture scientists, extension workers, agriculture workers, and farmers created scope for the targeted beneficiaries, particularly the 30-60% small and marginal farmers to be involved in production of high value crops and thereby enhance their earnings. These measures contribute to alleviation of poverty.

**Impact on women's advancement:** 30% of adult women belonging to about 1.51 crore farming households are directly/indirectly involved in crop production. Production of high value crops will create employment opportunities for women. Further, through these targeted programs, women and children will get access to nutritious food. Women's participation in management of different targeted activities such as homestead fruits and vegetable gardening, crop yielding activities as well as production and preservation of seeds will promote their employment potential, increase their income level and social status.

### 3.1.2 Increased supply and affordability of agricultural inputs

**Impact on poverty reduction:** Production has increased due to availability of agricultural inputs and increase of agriculture credits and as such, opportunity of farmer's income is being enhanced. Income and production including opportunity of employment generation are increasing for the poor people of this area. This will make direct contribution to the alleviation of poverty.

**Impact on women's advancement:** Women's involvement in income generating activities is being increased with the increase in crop production. As a result, women's income increased.

### 3.1.3 Development and maintenance of Agricultural land resource based management.

**Impact on poverty reduction:** Different activities like soil analysis and increasing popularity of balanced fertilizers such as organic, green and bio fertilizer will help small and marginal farmers of drought and famine prone areas to reduce the cost needed to protect the productivity of their land. As a result, production cost of the crops will reduce, economic solvency of the poor people will increase and thus poverty will be reduced.

**Impact on women's advancement:** Women's involvement in the preparation of organic and compost fertilizers creates their employment and increases their income levels.

### 3.1.4 Adequate supply of and fair price for agricultural products

**Impact on poverty reduction:** Development of agricultural marketing and ensuring fair price for agricultural products has a positive impact on the economic conditions of farmers. Creation of new market places and warehousing facilities for crops reduces the influence of intermediaries, ensures fair price for products, improves economic conditions of farmers and helps to reduce the poverty of small and marginal farmers. Through encouraging investment in agri-business and agriculture programs, different labor-intensive activities such as trading in seeds, cultivation of mushroom, fruits, flowers, cactus and decorating plants create employment opportunities for the rural labor force.

**Impact on women's advancement:** Women are getting employed in increasing numbers through targeted agro-processing and agro-business activities. These activities promote women's participation in the labour market and enhance their social status and access to government resource and services.

## 3.2 Poverty Reduction and Women's Advancement Related Spending

(Taka in Thousands)

Particulars	Budget 2017-18	Projection	
		2018-19	2019-20
Poverty Reduction	11809,75,67	11094,42,57	10849,90,77
Gender	6706,97,45	6283,99,41	6095,91,41

#### 4.1 Priority Spending Areas/Programmers

Priority Spending Areas/Programmers	Related Medium Term Strategic Objectives	
<p><b>1. Conduct research activities to increase production of rice, wheat, sugarcane and other crops</b></p> <p>On an average, 1% of total cultivable land of the country is shrinking every year due to industrialization, urbanization and growth of population. On the other hand, to meet the food requirement of the increasing population, increasing food production has become crucial. In this context, agricultural research activities to increase per hectare yield of rice, wheat, sugarcane and other crops and to produce crops of short duration and relay crops have been given the highest priority.</p>	<ul style="list-style-type: none"> <li>• Increase production and productivity in the crop sector</li> <li>• Increase supply and affordability of agricultural inputs</li> </ul>	
<p><b>2. Production of quality seeds and determination of the right standard</b></p> <p>The use of quality seeds is essential to increase crop yield. Production and supply of quality seeds according to the needs of farmers has therefore been given the second highest priority.</p>		
<p><b>3. Activities related to extend improved crop production technologies among the farmers(training, demonstrations, field days, rallies, fairs, media publicity)</b></p> <p>Extension of improved crop production technologies to field level among the farmers is crucial to increase agricultural production. Accordingly, providing training for using improved technologies, field demonstrations, rallies, agricultural fairs and other promotional activities have been given priority.</p>		
<p><b>4. Optimal use of the surface water</b></p> <p>Optimal use of surface water helps the expansion of minor irrigation infrastructure and increases availability of arable land through removal of water logging and water submergence. Hence, this sector has been given priority.</p>		
<p><b>5. Supply of sufficient agricultural products by expansion of Information and Communication Technology at the field level</b></p> <p>Promotion of ICT applications such as e-agriculture to enable continuous and timely access to credible and accurate crop related information and advice, at the field level, has been accorded priority.</p>		<ul style="list-style-type: none"> <li>• Adequate supply of and fair price for agricultural products</li> </ul>
<p><b>6. Optimal use of organic fertilizers in crop cultivation</b></p> <p>The use of organic, green and bio fertilizers is necessary to preserve soil quality, improve soil health, reduce the dependency on chemical fertilizers, and increase crop yield. In this context, the inclusion of organic fertilizers in crop production has been considered as a priority area.</p>		<ul style="list-style-type: none"> <li>• Development and maintenance of Agricultural land resource based management</li> </ul>

#### 4.2 Medium Term Expenditure Estimates and Projection (2017-18 to 2019-20)

##### 4.2.1 Expenditure by Department/Agencies/Operational Units

(Taka in Thousands)

Description	Budget	Revised	Budget 2017-18	Projection	
	2016-17			2018-19	2019-20
Bangladesh Agricultural Development Corporation.	1076,93,14	1106,72,10	820,00,14	682,56,20	595,91,57
Bangladesh Agriculture Research Council	43,21,90	27,72,06	154,09,00	207,46,88	177,69,15
Bangladesh Rice Research Institute (BRRI)	93,69,47	140,84,44	206,25,30	165,20,08	142,66,79
Bangladesh Agriculture Research Institute	358,06,47	381,00,19	311,95,14	294,81,09	306,25,85
Bangladesh Jute Research Institute	57,48,74	66,93,60	59,59,50	43,13,95	48,35,46
Bangladesh Institute of Nuclear Agriculture	31,55,25	44,65,51	58,31,44	37,23,50	39,17,97

Description	Budget	Revised	Budget 2017-18	Projection	
	2016-17			2018-19	2019-20
Bangladesh Sugarcane Research Institute	50,84,24	44,20,20	45,09,56	40,95,44	40,98,11
Bangladesh Institute of Research and Training On Applied Nutrition (BIRTAN).	53,04,90	44,13,09	99,66,83	18,74,65	19,91,00
Barandra Multipurpose Authority	242,33,00	305,44,00	191,08,00	19,12,00	37,00
Secretariat	9676,92,26	6218,60,24	9458,19,69	10558,03,96	11219,06,42
Autonomous Bodies & Other Institutions	30,41,29	32,58,26	28,35,17	12,44,56	0
International Organisations	1,56,23	1,56,23	2,00,00	2,00,00	2,00,00
Department of Agricultural Extension	552,91,96	565,84,86	681,90,32	404,13,54	249,76,62
Field Service Division	122,39,50	116,22,85	127,70,48	127,86,80	133,41,73
Plant Protection Department	20,50,54	19,27,98	21,58,16	21,78,07	22,67,59
Cash Crop Division -Tobacco and Jute	3,21,27	3,27,01	3,43,67	3,61,38	3,77,50
Food Crops Division	59,27,32	55,18,73	59,30,97	61,75,30	64,03,52
Agricultural Education and Training	59,19,58	48,61,53	58,25,62	59,40,01	55,19,16
Upazilla Agriculture Offices	980,94,34	980,26,81	1037,61,74	1091,09,46	1146,01,49
Seed Certification Agency	20,55,83	21,23,17	27,68,74	29,34,21	32,22,87
Cotton Development Board	61,67,09	71,92,50	69,46,80	46,18,07	46,40,55
Agricultural Information Service	13,08,82	12,45,76	14,23,64	14,03,88	14,56,73
Department of Agricultural Marketing	27,85,58	29,89,26	29,84,92	28,92,74	26,47,65
Soil Resource Development Institute	41,16,28	40,30,35	38,51,17	42,43,23	45,70,27
<b>Grand Total :</b>	<b>13678,85,00</b>	<b>10378,90,73</b>	<b>13604,16,00</b>	<b>14012,29,00</b>	<b>14432,65,00</b>

#### 4.2.2 Expenditure by Economic Group Wise

(Taka in Thousands)

Economic Group	Description	Budget	Revised	Budget 2017-18	Projection	
		2016-17			2018-19	2019-20
	<b>Revenue Expenditure</b>					
4500	Pay of Officers	178,84,33	178,20,19	191,28,54	193,62,92	190,76,49
4600	Pay of Establishment	609,12,74	602,93,41	641,89,81	669,83,20	707,58,70
4700	Allowances	578,80,01	557,87,40	600,39,41	640,03,95	654,03,16
4800	Supplies and Services	696,34,19	703,10,82	842,42,63	704,58,70	628,82,17
4900	Repairs and Maintenance	51,35,48	66,00,34	65,32,02	47,14,42	26,11,01
5800	Subsidies and Incentives	9000,00,38	6000,00,38	9000,00,29	9000,00,00	9000,00,00
5900	Grants in Aid	1030,42,11	1062,01,19	1123,39,91	1226,48,18	1278,22,81
6100	Contributions to International Organisation	1,56,23	1,56,23	2,00,00	2,00,00	2,00,00
6300	Pensions and Gratuities	246,76,55	0	0	0	0
6600	Block Allocations	35,38,38	32,40,41	60,04,88	100,87,29	124,33,23
6700	Revenue - General	0	0	0	35,00	0
	<b>Total :- Revenue Expenditure</b>	<b>12428,60,40</b>	<b>9204,10,37</b>	<b>12526,77,49</b>	<b>12584,93,66</b>	<b>12611,87,57</b>
	<b>Capital Expenditure</b>					
6800	Acquisition of Assets	603,80,97	502,82,32	288,30,43	80,87,44	53,01,64
6900	Acquisition/Purchase of Land & Landed Properties	2,17,62	10,63,34	95,20,58	32,50	32,50
7000	Construction and Works	639,75,71	654,15,15	524,08,70	228,40,60	99,13,99
7200	Capital Grants	0	0	7,50	0	0
7400	Advances to Government Employees	3,80,30	3,01,30	4,30,30	4,33,30	4,36,30
7900	Development Import Duty and VAT	70,00	4,17,00	3,47,00	7,53,00	5,00,00
7980	Capital Block Allocation & Misc. Capital Expen.	0	1,25	161,94,00	1105,88,50	1658,93,00
	<b>Total :- Capital Expenditure</b>	<b>1250,24,60</b>	<b>1174,80,36</b>	<b>1077,38,51</b>	<b>1427,35,34</b>	<b>1820,77,43</b>
	<b>Grand Total :</b>	<b>13678,85,00</b>	<b>10378,90,73</b>	<b>13604,16,00</b>	<b>14012,29,00</b>	<b>14432,65,00</b>

## 5.0 Key Performance Indicator (KPIs)

Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
			2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10
1. Innovated varieties of improved crops and technologies	1	Number	80	88	82	82	72	93	93
2. Extended coverage of soil sample testing facilities to determine soil standards	3	%	11	11	11.50	11.50	12.00	12.9	13.5
3. Extended coverage of minor irrigation facilities on agricultural land and increase of arable land	1,2	Hectares (lakh)	10.08	5.23	10.49	5.15	5.13	5.17	5.20
		%	11.85	6.15	12.32	6.06	6.03	6.08	6.11
4. * Production of major crops									
a) Rice	1,2,4	M.T. (Crore)	3.48	3.47	3.51	3.52	3.53	3.56	3.58
b) Wheat		M.T. (Lakh)	13.81	13.48	14.31	14.31	14.81	15.31	15.81
c) Potato		M.T. (Lakh)	88.50	94.64	89.50	96.00	90.50	91.50	92.50
d) Pulse		M.T. (Lakh)	8.90	9.44	8.92	10.25	9.81	10.31	10.81
e) Oil Seed		M.T. (Lakh)	9.60	10.99	9.70	11.21	11.45	11.85	12.25
f) Vegetable		M.T. (Lakh)	136.37	152.64	139.40	155.01	142.37	145.37	148.37
g) Maize		M.T. (Lakh)	26.36	27.59	28.36	34.39	30.00	32.00	34.36
h) Spices		M.T. (Lakh)	31.29	34.37	31.3.	34.80	31.75	31.90	31.96
i) Jute		M.T. (Lakh)	75.60	75.60	75.90	77.87	76.10	76.60	76.70

\*Information regarding annual demand for crops has been taken from Medium Term Strategy and Business Plan

## 6.0 Recent Achievements, Activities, Output Indicators and Targets and Expenditure Estimates of the Departments/Agencies

### 6.1 Secretariat

**6.1.1 Recent Achievements:** Medium Term Strategy and Business Plan (MTSBP) for the Ministry of Agriculture and National Agriculture Policy-2013 have been adopted. Due to government policies and initiatives 1039.00 lakh MT rice, 39.95 lakh MT Wheat, 187.18 lakh MT potato and 444.22 lakh MT vegetables and 77.30 lakh MT maize were produced during the last three years. During this period, total 4.0 lakh MT seeds of different crops have been supplied and as subsidy on fertilizer and other agricultural inputs about TK. 22500.07 crore and for agricultural rehabilitation about TK 193.85 crore have been disbursed. At 30% reduced price agricultural machineries have been supplied to the farmers. In the meantime, 210 high yielding varieties and technologies have been innovated some of which are tolerant to salinity, drought and water submergence..

### 6.1.2 Activities, Output Indicators and Target

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
1. Coordination among concerned public and private institutions for expansion of marketing facilities	Coordination meeting	4	No.			12		12		

### 6.1.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4301-0001 - Secretariat	1	553,70,20	336,69,88	82,74,83	120,85,81	224,91,67	311,08,19



Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
4301-0010 - Incentive Management	1	6432,12,32	9000,00,00	6000,00,00	9000,00,00	9000,00,00	9000,00,00
4301-0012 - Agriculture Rehabilitation Assistance	1	67,29,70	75,00,00	75,00,00	100,00,00	100,00,00	100,00,00
4306-4311 - Food And Agriculture Organisation (FAO)	1	38,15	40,00	40,00	63,90	63,90	63,90
4306-4313 - Commonwealth Agriculture Bureau	1	0	12,00	12,00	16,00	16,00	16,00
4306-4317 - C.A.P.S.A.	1	0	7,00	7,00	10,00	10,00	10,00
4306-4319 - A.P.A.A.R.I.	1	0	6,00	6,00	9,00	9,00	9,00
4306-4320 - I.S.T.A.	1	3,98	5,00	5,00	7,00	7,00	7,00
4306-4321 - C.G.I.A.R.	1	78,93	82,00	82,00	88,00	88,00	88,00
4306-4457 - UNESCAP	1	0	3,50	3,50	5,00	5,00	5,00
4306-4459 - International Treaty on Plant Genetic Resources for Food and Agriculture	1	61	70	70	1,00	1,00	1,00
4306-4461 - Asia and Pacific plant protection Commission (A.P.P.P.C.)	1	0	3	3	10	10	10
<b>Total : Operational Units</b>		<b>7054,33,89</b>	<b>9413,26,11</b>	<b>6159,31,06</b>	<b>9222,85,81</b>	<b>9326,91,67</b>	<b>9413,08,19</b>
<b>Approved Programmes</b>							
4396-4837 - Block Allocation	1	58,91,50	35,38,38	32,30,41	59,94,88	99,87,29	124,13,23
<b>Total : Approved Programmes</b>		<b>58,91,50</b>	<b>35,38,38</b>	<b>32,30,41</b>	<b>59,94,88</b>	<b>99,87,29</b>	<b>124,13,23</b>
<b>Total : Non Development</b>		<b>7113,25,39</b>	<b>9448,64,49</b>	<b>6191,61,47</b>	<b>9282,80,69</b>	<b>9426,78,96</b>	<b>9537,21,42</b>
<b>Approved Projects</b>							
4301-5001 - Orienting Agriculture toward Improved Nutrition and Women Empowerment (01/07/2015-30/06/2018)	1	0	2,08,00	2,08,00	1,03,00	0	0
4301-5002 - National Agricultura Technology Program Phase-2 Project (NATP-2) (PMU Part) (01/10/2015-30/09/2021)	1	0	10,80,00	3,50,00	15,42,00	27,58,00	25,00,00
4301-5130 - Integrated Agricultural Productivity Project (2nd Revised) (IAPP) (Secretariat Part)	1	28,55,45	39,82,00	22,97,00	0	0	0
4301-8030 - Block allocation for unapproved projects.	1	0	177,14,00	0	160,94,00	1105,67,00	1658,85,00
<b>Total : Approved Projects</b>		<b>28,55,45</b>	<b>229,84,00</b>	<b>28,55,00</b>	<b>177,39,00</b>	<b>1133,25,00</b>	<b>1683,85,00</b>
<b>Total : Development</b>		<b>28,55,45</b>	<b>229,84,00</b>	<b>28,55,00</b>	<b>177,39,00</b>	<b>1133,25,00</b>	<b>1683,85,00</b>
<b>Total :</b>		<b>7141,80,84</b>	<b>9678,48,49</b>	<b>6220,16,47</b>	<b>9460,19,69</b>	<b>10560,03,96</b>	<b>11221,06,42</b>

## 6.2 Department of Agricultural Extension

**6.2.1 Recent Achievements:** Department of Agricultural Extension is implementing different activities to increase crop production and productivity through transferring improved technologies among the farmers aimed to meet up the food demand of continuously increasing population of Bangladesh. In last three years, total rice production was 1040.95 lac M. Tons through strengthening of Agricultural Extension Activities. In this period, total food production (rice+wheat+maize) was 1357.76 lac M. Tons. Total 3.55 lac demonstrations were done for transferring technologies at farmers' level. Total 22.81 lac farmers were trained on appropriate and sustainable agricultural technologies in last three years; among them 36% were women. At this time, total 3430 Farmers' Group/Club have been formed for production, processing of safe food and effective marketing of produced products. In addition, for maintaining soil health as well as to increase production and use of manure, 22.11 lac compost heap/vermin-compost have been set up in farmers' homestead and nearby areas.

### 6.2.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Trained farmers	1	Lakh	7.00	7.01	7.25	7.25	7.30	7.35	7.25
	Exhibitions conducted			1.50	1.50	1.52	1.52	1.40	1.42	1.40
	Field days/rallies organized		Number (in thousands)	18.50	18.53	18.50	18.50	18.00	18.20	18.00

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
	Agriculture Fairs arranged		Number	370	370	580	375	380	385	388
	Motivational Tours conducted			400	400	420	420	405	410	411
	Seminar/ Workshop	1	Number	127	128	130	130	135	140	150
2. Provision of e-agriculture information services	ICM farmer's groups and farmer's clubs	1	Number	1100	1100	1150	1102	1130	1140	1150
3. Increasing awareness about food value and nutrition through publicity, publication, meeting and workshop	Trained person	1	Number	33900	3390	32000	3200	3250	3300	3350
4. Ensuring supply of fertilizers and other inputs at administered prices	Inspection fertilizer distribution by Agri. Officers	2	No(Thousands)	247	245	247	247	248	249	249
5. Production, certification and distribution of breeder, foundation, certified and truthfully level seeds	Foundation seeds distributed	2	Metric Ton (in thousands)	1.34	1.34	1.35	1.35	1.38	1.40	1.40
6. Production, certification and distribution of breeder, foundation and truthfully level seeds tolerant to salinity, draught and water submergence	Foundation seed of paddy Distributed	2	Metric Ton	400	400	410	410	415	420	430
7. Popularize among the farmers the use of organic fertilizer, green fertilizer and microbe fertilizer	Heaps prepared at farmers' homesteads	3	Lakh	7.4	7.43	11.00	4.45	7.50	7.60	6.0
	Green fertilizer Exhibitions conducted		Number (in thousands)	6.3	6.21	6.4	6.34	6.20	6.30	6.40
8. Popularizing sustainable soil management technologies among the farmers	Trained persons	3	Number	14600	-	14800	14510	15000	15500	15600

### 6.2.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4331-0000 - Department of Agricultural Extension	1-7	27,14,62	31,13,82	35,33,37	38,80,09	41,62,97	43,33,51
4331-0005 - Project Implementation Wing	1-7	82,53	1,16,80	1,21,15	1,25,64	1,36,73	1,43,11
4332-0000 - Field Service Division	1-7	88,37,73	122,39,50	116,22,85	127,70,48	127,86,80	133,41,73
4333-0000 - Plant Protection Department	1-7	16,18,12	20,50,54	19,27,98	21,58,16	21,78,07	22,67,59
4334-0000 - Cash Crop Division-Tobacco and Jute	1-7	2,50,19	3,21,27	3,27,01	3,43,67	3,61,38	3,77,50
4335-0000 - Food Crops Division	1-7	44,45,15	59,27,32	55,18,73	59,30,97	61,75,30	64,03,52
4336-0001 - Agricultural Education and Training		30,65,01	38,33,42	35,76,90	38,38,59	40,33,74	41,93,20
4337-0000 - Upazila Agriculture Offices	1-7	815,50,71	980,94,34	980,26,81	1037,61,74	1091,09,46	1146,01,49
<b>Total : Operational Units</b>		<b>1025,64,06</b>	<b>1256,97,01</b>	<b>1246,54,80</b>	<b>1328,09,34</b>	<b>1389,44,45</b>	<b>1456,61,65</b>
<b>Approved Programmes</b>							
4396-4440 - Renovation, Repair, Maintenance & Development programme of Khamarbari Complex	1-7	2,00,88	1,33,41	1,33,41	0	0	0
4396-4447 - Environment Friendly Poison Free Safe Crop Production for Food Security Through Good Agricultural Management Program	1-7	2,20,21	2,12,44	2,12,44	0	0	0
4396-4454 - Integrated Development Programme for Enclave (Chitmohol) of Lalmonirhat & Kurigram, DAE component	1-7	14,58	87,61	87,61	67,98	0	0

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
4396-4925 - Enhancing income of the farmers and improving environment in the coastal area through extension of dwarf variety coconut programe	1-7	69,79	3,61,88	3,61,88	3,60,61	1,03,84	0
<b>Total : Approved Programmes</b>		<b>5,05,46</b>	<b>7,95,34</b>	<b>7,95,34</b>	<b>4,28,59</b>	<b>1,03,84</b>	<b>0</b>
<b>Total : Non Development</b>		<b>1030,69,52</b>	<b>1264,92,35</b>	<b>1254,50,14</b>	<b>1332,37,93</b>	<b>1390,48,29</b>	<b>1456,61,65</b>
<b>Approved Projects</b>							
4331-5001 - National Agricultura Technology Program Phase-2 Project (NATP-2) (DAE Part) 01/10/2015-30/09/2021	1-7	0	41,34,00	23,54,00	182,18,00	140,00,00	170,00,00
4331-5002 - Establishment of Farmers Service Centre and Technology Trasfer Union Level Pilot Project	1-3, 5,8	0	0	1,86,00	41,58,00	0	0
4331-5003 - Argo-Meteorological Information Systems Development Project (Component-C) (01/07/2016-30/06/2021) Approved	2	0	0	0	23,20,00	46,68,00	30,00,00
4331-5012 - Mujibnagar Integrated Agriculture Development Project-(DAE Part)-Approved-01/07/2011 - 30/06/2016	1-7	9,24,88	3,96,00	3,80,00	0	0	0
4331-5013 - Strengthening Phytosanitary Capacity in Bangladesh	1-7	58,82,58	38,00,00	38,00,00	11,55,00	0	0
4331-5014 - Integrated Agricultural Development Project in Pirojpur-Gopalganj-Bagerhat	1-7	47,56	62,00	61,00	0	0	0
4331-5015 - Integrated Agricultural Development Project in Pirojpur-Gopalganj-Bagerhat	1-7	9,72,85	8,00,00	7,25,00	0	0	0
4331-5019 - Enhancement of Crop Production Through Farm Mechanization (Phase-2)	1-7	39,98,34	45,00,00	83,00,00	80,00,00	70,00,00	0
4331-5022 - Agricultural Support for Smallholders in south-western Region of Bangladesh (DAE Part)	1-7	18,82,87	6,90,00	8,62,00	24,90,00	12,00,00	0
4331-5023 - Transfer of Technology for Agriculture Production under Blue Gold Program (DAE Component)	1-7	26,30	1,43,00	2,78,00	2,29,00	3,42,00	0
4331-5024 - Safe Crop Production Project Through Integrated Pest Management (IPM) Approach)	1-7	21,22,87	13,84,00	13,05,00	11,11,00	0	0
4331-5025 - Production, Storage and Distribution of Quality Seeds od Pulse, oil and Onion at Farmer's (2nd Phase)	4-5	11,84,13	14,73,00	14,67,00	14,50,00	0	0
4331-5026 - Citrus Development Project	1-7	5,51,70	7,11,00	7,67,00	5,71,00	0	0
4331-5027 - Enhancement of Crop Production Through Improved On-Farm Water Management Technologies	3	9,85,42	9,93,00	8,86,00	7,22,00	0	0
4331-5029 - Establishment of two ATI at Buncharumpur Upazila, Brahmanbaria District and Saturia Upazila, Manikgonj District.	1-7	15,67,60	30,00,00	25,00,00	10,59,00	0	0
4331-5032 - Production, Storage and Distribution of Quality Seeds of Rice, Wheat and Jute at Farmers Level-2nd Phase	4-5	26,17,82	35,75,00	35,75,00	33,21,00	0	0
4331-5033 - Agricultural Support for Smallholders in south-western Region of Bangladesh (LGED Part)	3	18,96,91	20,20,00	12,21,00	21,95,00	10,00,00	0
4331-5034 - Integrated Farm Management Component (IFMC) Agriculture Growth and Employment Program (AGEP)	1-7	13,53,24	77,00,00	83,28,00	83,70,00	50,00,00	0
4331-5036 - Integrated Agricultural Approach for Ensuring Nutrition and Food Security Project (DAE Phase)	1-7	20,71,70	25,00,00	25,00,00	8,50,00	8,00,00	0
4331-5038 - Increasing Cropping Intensity in Sylhet Region Project (DAE Part)	1-7	10,85,05	12,61,00	11,42,00	17,43,00	0	0
4331-5039 - Year Round Fruit Production for Nutrition Improvement Project	1-7	29,14,22	60,00,00	56,00,00	57,94,00	20,00,00	5,00,00
4331-5150 - Construction of Rubber Dams in small Medium Rivers for Increasing of Food Production (DAE part)	1,3	1,92,52	1,95,00	2,05,00	0	0	0
4331-5170 - Construction of Rubber Dams in small Medium Rivers for Increasing of Food Production (LGED part)	3	29,86,42	18,50,00	16,30,00	0	0	0

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
4331-5260 - Second Crop Diversification	1-7	41,95,76	29,48,00	27,50,00	0	0	0
4331-5360 - Char Development and Settlement Project-4	1,2	1,36,33	49,00	41,00	0	0	0
4331-5380 - Integrated Agricultural Productivity Project (IAPP) (agriculture Extension Part) (01/07/2011 - 30/06/16)	1-7	24,67,64	50,00	2,55,00	0	0	0
4331-5400 - Farmer's Training at the Upazila Level for Transfer of Technology-2nd phase	1-3	28,94,80	9,55,00	9,40,00	0	0	0
<b>Total : Approved Projects</b>		<b>449,59,51</b>	<b>511,89,00</b>	<b>520,58,00</b>	<b>637,56,00</b>	<b>360,10,00</b>	<b>205,00,00</b>
<b>Total : Development</b>		<b>449,59,51</b>	<b>511,89,00</b>	<b>520,58,00</b>	<b>637,56,00</b>	<b>360,10,00</b>	<b>205,00,00</b>
<b>Total :</b>		<b>1480,29,03</b>	<b>1776,81,35</b>	<b>1775,08,14</b>	<b>1969,93,93</b>	<b>1750,58,29</b>	<b>1661,61,65</b>

### 6.3 Bangladesh Agriculture Development Corporation

**6.3.1 Recent Achievements:** For the development of agriculture and implementation of Country's agricultural policy, Bangladesh Agricultural Development Corporation (BADC) plays an important role to bring three main inputs of crop production at farmers' doorstep such as- quality crop seeds, quality fertilizers, and irrigation facilities. Subsequently, during the last three years, the significant contributions of BADC have been production of 4.21 lakh metric ton seed of various crops, 1041.79 lakh seedling and sapling and 12.88 lakh metric ton vegetables and fruits, import of 26.65 lakh metric ton non-nitrogenous fertilizers, supply of 28.17 lakh metric ton non-nitrogenous fertilizers, construction of 8 cold storages for potato seed, 2 prefabricated steel storage for fertilizer, 1992.47 kilometer surface and sub-surface irrigation channel, 3078 irrigation structures and 2 rubber dam, re-excavation of 2446.43 kilometer canal-drain, installation of 1120 low lift pumps (LLP), rehabilitation of 556 deep tube wells, expansion of 1.21 lakh hectares irrigated area, construction of 3078 different irrigation infrastructures etc..

#### 6.3.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Persons trained	1	No. (in thousands)	28	28	28	28	14.85	14.85	14.85
	Seminar Workshop		No.	10	10	11	11	6	6	6
2. Ensuring the supply of fertilizers and other inputs at administered prices	Non-urea fertilizer distributed	2	Lakh Metric Ton	13.50	9.45	14.00	14	11.10	11.25	11.25
	Distributed TSP			3.80	3.80	4.12	4.12	4.50	4.50	4.50
	Distributed DAP			1.20	1.35	1.25	1.25	1.40	1.45	1.45
	Distributed MOP			4.30	4.30	4.75	4.75	5.20	5.30	5.30
3. Procurement of irrigation machinery and increasing its availability	Machinery items distributed	2	Number (in thousands)	1.63	1.018	0.50	0.50	0.60	0.60	0.60
	Rubber Dam constructed		Number	2	2	5	5	3	3	3
	Construction of surface and underground irrigation canals		k.m	750	756	800	800	400	400	400
4. Expansion of minor irrigation coverage by encouraging optimal use of surface water, and increasing the area of arable land by reducing water logging and sub-mergence	Expanded irrigation area	2	Lakh Hectare		0.40	0.30	0.30	0.25	0.25	0.25
	Increased arable land		Hectare (in thousands)	30.00	6.50	1.20	1.20	1.00	1.00	1.00
	Re-excavated canals		k.m	700	580	850	850	300	300	300
	Irrigation infrastructure constructed		Number	750	756	650	650	100	100	100

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
5. Production, certification and distribution of breeder, foundation, certified and truthfully labelled seeds	Produced and distributed seeds	2	Lakh Metric Ton	1.59	1.25	1.64	1.64	1.26	1.26	1.26
	Produced foundation seeds		M.T (Thousands)	15.553	13.82	16.43	16.43	13.79	13.79	13.79
	Produced Certified seeds			42.206	66.85	41.72	41.72	74.76	74.76	74.76
	Produced TLS			120.241	44.21	80.06	80.06	37.85	37.85	37.85
	Distributed foundation seeds			15.553	13.70	16.43	16.43	13.79	13.79	13.79
	Distributed certified seeds			39.206	23.02	41.72	41.72	74	74	74
	Distributed TLS			85.241	84.84	80.06	80.06	37.71	37.71	37.71
	Saplins produced			Number (lakh)	116.25	116.26	116.75	116.75	105	105
	Sapling distributed		Number (lakh)	116.25	116.25	116.75	116.75	101	101	101
	Vegetables and fruits produced		M.T (Lakh)	4.25	4.25	4.26	4.26	1.87	1.87	1.87
Vegetables and fruits distributed	4.25	4.25		4.26	4.26	1.81	1.81	1.81		
6. Production, certification and distribution of breeder, foundation and truthfully labelled seeds tolerant to salinity, drought and water submergence	Produced and distributed seeds	2	Metric Ton (in thousands)	5.00	5.00	5.50	5.50	4.5	4.5	1.5
	Produced tolerant varieties seeds		Metric Ton (in thousands)	5.00	5.00	5.50	5.50	4.50	4.50	4.50
	Distributed tolerant varieties seeds		Metric Ton (in thousands)	5.00	4.39	5.50	5.50	4.5	4.50	4.50
7. Encouraging participation of the private sector in production and development of seeds through meetings, seminars, fairs and technology exchange	Arranged meeting/ seminar	2	Number	43	29	45	45	45	45	45

### 6.3.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4305-3241 - Bangladesh Agricultural Development Corporation.	1-7	332,82,37	469,19,14	479,31,10	478,88,14	488,25,20	503,81,57
<b>Total : Operational Units</b>		<b>332,82,37</b>	<b>469,19,14</b>	<b>479,31,10</b>	<b>478,88,14</b>	<b>488,25,20</b>	<b>503,81,57</b>
<b>Approved Programmes</b>							
4396-4358 - Minor Irrigation Development Programme of Borkol & Kawkhali Upazilla under Rangamati District	3,4	0	0	13,06	4,47,33	2,96,06	0
4396-4360 - Minor Irrigation Development Programme of Kasba & Akhaura Upazilla under Brahmanbaria District	3,4	0	0	12,00	2,72,00	1,56,00	0
4396-4361 - Minor Irrigation Development Programme by Utilizing Surface Water of Chatmohar, Bhangura and Faridpur Upzilla under Pabna District	3,4	0	0	7,70	3,49,55	2,73,00	0
4396-4388 - Rangamati District Baghaichari Upazilla Irrigation Development Programme	2	3,50,00	3,50,00	3,50,00	0	0	0
4396-4389 - Sreebordi and Jheenaigati Upazilla Minor Irrigation Development Programme, Sherpur	2	3,61,98	3,00,00	3,00,00	0	0	0

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
4396-4445 - Minor Irrigation Program at Purbodhola, Madon, Mohongaj and Khaliajuri Upazilla in Netrokona district	2	4,45,25	3,10,00	3,10,00	0	0	0
4396-4446 - Program on Crop Production Increase by Transferring Modern Agricultural Technologies at Chatmohor, Vhangura and Faridpur Upazilla in Pabna District.	2	80,00	77,00	77,00	0	0	0
4396-4450 - Bijoynagar & Brahmanbaria Sadar Upazila Minor irrigation Development Programme in Brahmanbaria District	2	95,10	2,78,79	2,78,79	2,69,86	0	0
4396-4451 - Gopalganj District minor Irrigation Development Program	2	40,00	2,78,79	3,10,00	2,00,00	0	0
4396-4452 - Dumuria & Fultala Upazila minor Irrigation Development Programme under Khulna District.	2	80,00	1,70,00	1,70,00	1,50,00	0	0
4396-4453 - Development Programme for Enclave (Chitmohol) of Lalmonirhat & Kurigram, BADC component	2	21,37	1,45,70	1,45,70	82,93	0	0
4396-4927 - Sherpur District Irrigation Area Expansion Programme	2	0	3,50,00	3,50,00	2,00,00	0	0
<b>Total : Approved Programmes</b>		<b>14,73,70</b>	<b>22,60,28</b>	<b>23,24,25</b>	<b>19,71,67</b>	<b>7,25,06</b>	<b>0</b>
<b>Total : Non Development</b>		<b>347,56,07</b>	<b>491,79,42</b>	<b>502,55,35</b>	<b>498,59,81</b>	<b>495,50,26</b>	<b>503,81,57</b>
<b>Approved Projects</b>							
4305-5003 - Construction of Rubber Dams to Utilize Surface Water for Enhancing Agricultural Production Project.	1-7	2,90,00	47,00,00	27,00,00	40,00,00	63,12,75	32,84,32
4305-5014 - Integrated Agricultural Development Project in Pirojpur-Gopalganj-Bagerhat	1-7	45,00,00	35,00,00	44,60,00	0	0	0
4305-5019 - Eastran Integrated Irrigation Project	1-7	36,00,00	18,78,00	18,00,00	0	0	0
4305-5025 - Maintenance Rehabilitation of BADC'S Existing Fertilizer Godowns and Strengthening of Fertilizer Management Activities Project	4	30,00,00	60,00,00	60,00,00	31,89,00	0	0
4305-5028 - Establishment of Pulse and Oil Seed Multiplication Farm and Seed Processing Centre at Subarnachar in Noakhali District.	5-6	10,50,00	7,50,00	6,00,00	4,31,00	0	0
4305-5029 - Modern Minor Irrigation Expansion Project in Greater Rangpur District.	3	10,41,00	5,51,00	9,99,00	0	0	0
4305-5035 - Sylhet Division Minor Irrigation Development Project	2	40,00,00	30,00,00	32,20,00	30,00,00	17,66,45	0
4305-5042 - Barisal Division Minor Irrigation Development Project (01/01/2015-30/06/2019)	2	20,00,00	28,00,00	31,00,00	35,00,00	18,92,52	0
4305-5043 - Development, Multiplication and Quality Assessment of Agriculture Seeds through Biotechnology and Dissemination of the Technology	1-7	3,74,00	10,00,00	11,16,00	5,33,00	0	0
4305-5044 - Modernization and Improvement of Existing Seed Production, Processing & Distribution Facilities of BADC (MIEF) Project.	1-7	34,13,00	70,00,00	100,00,00	60,00,00	0	0
4305-5045 - Increasing Cropping Intensity in Sylhet Region Project (BADC Part)	1-7	2,30,00	2,80,00	2,69,00	89,00	38,16	0
4305-5047 - Improvement and Quality Seed Production of Rice, Wheat and Maize Project (2nd Phase)	1-7	69,00,00	50,00,00	70,00,00	50,00,00	31,09,33	0
4305-5052 - Strengthening of Sustainable Nutrition Security through Pulse & Oil Seed Production Project	1-5	15,00,00	30,00,00	30,00,00	40,00,00	43,15,00	44,45,00
4305-5055 - Expansion of Irrigation Through Utilization of Surface Water by Double Lifting (3rd Phase) Project.	1-5	16,00,00	43,00,00	36,00,00	38,00,00	16,41,00	12,34,96
4305-5056 - Ashuganj-Polash Agro Irrigation Project (5th Phase)	1-5	2,60,00	6,20,00	6,20,00	5,70,00	3,55,79	2,45,72
4305-5080 - Pabna-Natore-Shirajgonj-Irrigation Area Development Project-(Phase-III) - (01/03/2011 - 30/06/2014)-Approved	3	29,50,00	32,00,00	31,00,00	0	0	0
4305-5230 - Integrated Agricultural Productivity Project (IAPP) (BADC part)	1-7	28,56,75	3,75,00	1,88,00	0	0	0
4305-7018 - Installation of Seed Extension Farm Project for South West Coastal Areas	5-6	40,63,00	62,95,00	52,75,00	0	0	0

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
4305-7440 - Construction of Rubber Dams in small Medium Rivers for Increasing of Food Production (BADC part)	3	14,12,00	5,91,00	4,50,00	0	0	0
4305-8884 - Project for increasing supply of Quality Seed-BADC Part-(January-2011 to June/2014.	1-7	70,41,69	33,34,00	26,44,00	0	0	0
4305-8911 - Mujibnagar Integrated Agriculture Development Project (BADC Part)- Approved- 01/07/2011 - 30/06/2016	1-7	25,00,00	26,00,00	26,00,00	0	0	0
<b>Total : Approved Projects</b>		<b>545,81,44</b>	<b>607,74,00</b>	<b>627,41,00</b>	<b>341,12,00</b>	<b>194,31,00</b>	<b>92,10,00</b>
<b>Total : Development</b>		<b>545,81,44</b>	<b>607,74,00</b>	<b>627,41,00</b>	<b>341,12,00</b>	<b>194,31,00</b>	<b>92,10,00</b>
<b>Total :</b>		<b>893,37,51</b>	<b>1099,53,42</b>	<b>1129,96,35</b>	<b>839,71,81</b>	<b>689,81,26</b>	<b>595,91,57</b>

#### 6.4 Bangladesh Rice Research Institute

**6.4.1 Recent Achievements:** During the last three years, 16 high yielding varieties of rice have been developed and released- notable amongst them are 2 salinity resistant Boro, 1 Low Input Boro, 1 short duration drought resistant Aus, 2 zinc enriched Boro, 2 zinc enriched Aman, 1 drought resistant short duration Aman and 1 fine Balam. Besides, 1 USG applicator has been innovated. 460.00 MT breeder seeds have been produced and supplied to more than 500 government, private, NGOs and individual entrepreneurs connected with the seed production-network. To facilitate technology transfer, training has been provided to 12,000 farmers, agricultural workers, and officials. 13700 Symposiums/Seminar/workshops have been organized, 1.60 lakh copies of reports on modern paddy cultivation, rice journals, annual research reports and booklets have been published. 400 field demonstrations have been organized to popularize the agricultural machineries innovated by BRRI.

#### 6.4.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets			
				2015-16		2016-17		2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8	9	10	11	
1. Innovation of high yielding varieties of different crops, and technologies.	Innovate varieties of paddy and other crops	1	Number	3	3	3	3	2	2	2	
	Innovate/develop agriculture technologies			3	3	3	3	2	2	2	
2. Innovation of technologies and nutrient enriched varieties of rice and other crops tolerant to salinity, drought and water submergence and other adverse conditions	Innovate rice varieties	1	Number	2	2	1	2	1	1	1	
	Innovate rice technologies	1	Number	2	2	1	2	1	1	1	
3. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Trained Persons/ Farmers	1	Number (in thousands)	3.50	4.00	4.00	4.00	4.50	5.00	5.50	
	Transferred technologies at field level			5	5	4	4	3	3	3	
	Demonstration established			5.00	5.00	5.50	5.50	6.00	6.50	6.6.	
	Seminar/ workshop arranged			60	62	50	50	50	50	50	
	Varieties transferred at field level			5	5	4	5	3	3	3	
	Extension officer/staffs			Number (in thousands)	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Innovation of agriculture			Number	1	1	1	1	1	1	1

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
	machineries/develop									
	Number of publicity		Number	10	10	10	10	10	10	10
4. Providing agriculture e – information service	Persons benefited	1	Number (Lakh)	2.00	2.06	2.50	2.50	3.00	3.00	3.00
5. Production, certification and distribution of breeder, foundation, certified and truthfully labeled seeds	Breeder seeds produced	2	M.T	100	103	100	100	100	100	100
	Truthfully labelled seed produced			30	35	30	30	30	30	30
	Breeder seeds distributed			100	100	100	100	100	100	100
	Truthfully labelled seeds distributed			30	35	30	30	30	30	30
6. Production, certification and distribution breeder, foundation and truthfully level seeds tolerant to salinity, draught and water submergence and other conditions	Produced adverse resistant seeds	2	Metric Ton)	20	24	22	22	25	25	25
	Distributed adverse resistant I seeds			20	22	22	22	25	25	25

#### 6.4.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4305-3245 - Bangladesh Rice Research Institute (BRR)	1-6	66,79,80	86,03,47	93,25,44	104,28,30	105,20,08	113,66,79
<b>Total : Operational Units</b>		<b>66,79,80</b>	<b>86,03,47</b>	<b>93,25,44</b>	<b>104,28,30</b>	<b>105,20,08</b>	<b>113,66,79</b>
<b>Approved Programmes</b>							
4396-4392 - Strengthening Research Activities at Barisal, Sonagazi and Satkhira Regional Station of BRR Programme	1-6	3,46,00	4,22,00	4,22,00	0	0	0
<b>Total : Approved Programmes</b>		<b>3,46,00</b>	<b>4,22,00</b>	<b>4,22,00</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total : Non Development</b>		<b>70,25,80</b>	<b>90,25,47</b>	<b>97,47,44</b>	<b>104,28,30</b>	<b>105,20,08</b>	<b>113,66,79</b>
<b>Approved Projects</b>							
4305-5006 - Strengthening Physical Infrastructure and Research Activities of Bangladesh Rice Research Institute	3,4	0	0	23,00,00	85,00,00	60,00,00	29,00,00
4305-5008 - Hybrid Rice Research Capacity Development of Bangladesh Rice Research Institute	1,2,5,6	0	0	16,30,00	16,97,00	0	0
4305-5016 - Integrated Agricultural Development Project in Pirojpur-Gopalgonj-Bagerhat	1-6	1,90,00	2,00,00	2,00,00	0	0	0
4305-5210 - Integrated Agricultural Productivity Project (IAPP) (BRR Part)	1-6	3,95,59	16,00	15,00	0	0	0
4305-8886 - Enhancing Quality Seed Supply- (BRR Part) (01/01/11-30/06/16)	1-6	2,92,13	4,42,00	4,80,00	0	0	0
4305-8912 - Mujibnagar Integrated Agriculture Development Project- (BRR Part)-Approved-01/07/2011 - 30/06/2016	1-6	2,00,00	1,08,00	1,34,00	0	0	0
<b>Total : Approved Projects</b>		<b>10,77,72</b>	<b>7,66,00</b>	<b>47,59,00</b>	<b>101,97,00</b>	<b>60,00,00</b>	<b>29,00,00</b>
<b>Total : Development</b>		<b>10,77,72</b>	<b>7,66,00</b>	<b>47,59,00</b>	<b>101,97,00</b>	<b>60,00,00</b>	<b>29,00,00</b>
<b>Total :</b>		<b>81,03,52</b>	<b>97,91,47</b>	<b>145,06,44</b>	<b>206,25,30</b>	<b>165,20,08</b>	<b>142,66,79</b>

#### 6.5 Bangladesh Agricultural Research Institute

**6.5.1 Recent Achievements:** During the last three years, 75 high yielding varieties of different crops viz. wheat, maize, tuber crops, vegetables, fruits, flowers, pulses, oilseeds and spices, and 120 advance lines of those crops have been in pipeline of release as variety. Moreover, 4,489 germplasms of those crops have been



collected. Besides, 65 technologies have been developed on soil, fertilizer and water management, insect-pest management, new cropping patterns to increase cropping intensity; and post-harvest handling, processing and transportation of crops and nine agricultural machineries were also developed. A total of 79,480 persons like scientists, extension and NGO personnel, and farmers have been provided training on improved technologies. Moreover, 8,560 persons have been informed about the developed technologies through 146 seminars, symposiums and workshops. Fifty nine publications have been made and 8,639 demonstration blocks have been setup to disseminate newly developed technologies. Moreover, 63 radio and 75 TV programs have been telecasted, and bilateral Memoranda of Understanding (MOU) have been signed with 27 institutes.

### 6.5.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
1. Innovation of high yielding varieties of different crops, and technologies	Innovated varieties	1	Number	27	30	20	27	27	28	27
	Innovated technologies			20	21	28	20	22	21	21
2. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Training provided	1	Batch (Number)	700	710	650	430	680	670	650
			Person (in thousands)	25.00	26.50	23.00	15.00	16.00	16.00	16.00
3. Providing agri e- information service	Benefited farmer	2	Persons in Thousands	100	115.155	98	100	150	150	150
4. Production, certification and distribution of breeder, foundation, certified and truthfully level seeds	Breeder and truthfully labeled seeds Produced and distributed	2	Metric ton (in thousands)	.97	0.99	0.98	0.98	1.00	0.98	1.00
5. Produced and distributed of breeder, foundation, certified and truthfully seeds of rice, wheat and other crops tolerant to salinity, drought and water submergence and other adverse conditions	Produced breeder and truthfully seeds	2	M.T	45	81	47	45	49	50	50
6. Encouraging the participation of the private sector in production and development of seeds through meetings, seminars, fairs and technology exchange	Memorandum of Understanding signed with private enterpreniors	2	Number	15	5	15	8	9	8	8

### 6.5.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4305-3247 - Bangladesh Agriculture Research Institute	1-5	224,34,59	281,42,47	282,88,19	272,83,14	286,81,09	301,46,85
<b>Total : Operational Units</b>		<b>224,34,59</b>	<b>281,42,47</b>	<b>282,88,19</b>	<b>272,83,14</b>	<b>286,81,09</b>	<b>301,46,85</b>
<b>Approved Programmes</b>							
4396-4357 - Problem Identification & Research Based Programme on Newly Released Potato and Vitamin Rich Sweet Potato Breeder Seed Production by Conducting Demonstration	2,3,6	0	0	93,00	3,50,00	1,97,00	0
4396-4391 - Development of Four Crops based cropping pattern for increasing cropping intensity and productivity programme	1-5	48,58	51,58	51,58	0	0	0
4396-4455 - Bt Brinjal Breeder Seed Production	1-5	17,00	49,00	49,00	39,00	0	0
<b>Total : Approved Programmes</b>		<b>65,58</b>	<b>1,00,58</b>	<b>1,93,58</b>	<b>3,89,00</b>	<b>1,97,00</b>	<b>0</b>
<b>Total : Non Development</b>		<b>225,00,17</b>	<b>282,43,05</b>	<b>284,81,77</b>	<b>276,72,14</b>	<b>288,78,09</b>	<b>301,46,85</b>

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Approved Projects</b>							
4305-5000 - Improvement and Quality Seed Production of Wheat and Maize 2nd Phase	1-5	5,00,00	9,54,00	7,90,00	4,70,00	3,00,00	2,72,75
4305-5002 - Strengthening of Oil-seed and Pulses Research and Development.	1-5	24,00	9,85,00	7,78,00	7,84,00	3,00,00	2,06,25
4305-5005 - Strengthening Research on Horticultural Crops and Dissemination of Horticultural & Field Crop Technology at Charland Areas	1-5	0	0	12,08,00	24,46,00	2,00,00	0
4305-5011 - Mujibnagar Integrated Agriculture Development Project-(BARI Part)-Approved-01/07/2011 - 30/06/2016	1-5	1,50,00	15,00	1,25,00	0	0	0
4305-5015 - Integrated Agricultural Development Project in Pirojpur-Gopalganj-Bagerhat	1-5	1,63,00	1,90,00	3,00,00	0	0	0
4305-5018 - Development and expansion of research and research infrastrucution of BARI	1-5	55,00,00	52,00,00	63,00,00	0	0	0
4305-5023 - Cytus Development Project (BARI part)	1-5	5,00,00	2,70,00	2,74,00	2,12,00	0	0
4305-5220 - Integrated Agricultural Productivity Project (IAPP) (BARI Part)	1-5	5,47,04	29,00	20,00	0	0	0
4305-8885 - Project for increasing supply of Quality Seed-BARI Part-(January-2011 to June/2014.	1-5	19,48,31	21,00	17,00	0	0	0
<b>Total : Approved Projects</b>		<b>93,32,35</b>	<b>76,64,00</b>	<b>98,12,00</b>	<b>39,12,00</b>	<b>8,00,00</b>	<b>4,79,00</b>
<b>Total : Development</b>		<b>93,32,35</b>	<b>76,64,00</b>	<b>98,12,00</b>	<b>39,12,00</b>	<b>8,00,00</b>	<b>4,79,00</b>
<b>Total :</b>		<b>318,32,52</b>	<b>359,07,05</b>	<b>382,93,77</b>	<b>315,84,14</b>	<b>296,78,09</b>	<b>306,25,85</b>

## 6.6 Bangladesh Jute Research Institute

**6.6.1 Recent Achievements:** Three high yielding varieties (tossa jute-1, white jute-2) of jute and allied fiber crops have been developed during last 3 years. Training has been provided to 5250 jute farmers, extension workers in order to disseminate ribbon raiting technology, late jute seed production technology in agro forestry system and other agricultural technologies. Fertilizer recommendations have been updated for popular jute varieties and fertilizer recommendations have been made for new developed varieties. 4500 kg breeders seed and 300 tons truthfully labeled seed have been produced and distributed to BADC and farmers level respectively. Dyeing technology of jute and jute goods by natural dye has been developed. Technologies have been developed for producing fabric and blanket by blending jute, cotton and sheep wool supplied by Bangladesh Livestock Research Institute (BLRI). Improved yarn and high valued diversified products have been developed by blending jute with natural and artificial fiber. An International standard genome research laboratory has been developed by the Project "Basic and Applied Research on Jute." The Project premises has been declared and implemented as Key Point Installation (KPI) for its security. .

### 6.6.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Innovation of high yielding varieties of different crops, and technologies.	Innovated new varieties of jute	1	Number	1	-	1	1	1	1	1
	Innovated technology			5	5	5	5	6	7	7
2. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Persons/farmers Trained	1	Number (in thousands)	1.50	1.50	2.00	1.80	1.90	2.00	2.00
	Extensions employee trained		Number	150	150	150	200	240	280	240
	Report, bulleting, leaflet booklet,		Number	10	10	10	10	11	12	11

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
	newsletters etc. published									
3. Production, certification and distribution of breeder, foundation, certified and truthfully labeled seeds	Produced breeder seeds	2	Kilogram (in thousands)	1.50	1.50	1.50	1.50	1.60	1.60	1.60
	Produced truthfully labeled seeds		Metric ton	110	110	110	8	9	10	11
4. Production, certification, preservation and distribution of seeds of rice, wheat and other crops tolerant to adverse conditions like salinity, drought, water submergence and others	Breeder seeds produced	2	kg	50	50	50	50	50	50	50
	Truthfully labelled seeds distributed			200	200	200	200	200	200	200
5. Encouraging the participation of the private sector in production and development of seeds through meetings, seminars, fairs and technology exchange	Memorandum of understanding signed	2	Number	2	2	2	1	3	3	3
	Fairs participated			6	6	6	6	6	6	6
	Arranged meeting-seminars			8	8	6	6	6	6	8

### 6.6.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4305-3251 - Bangladesh Jute Research Institute	1-4	28,03,30	36,48,74	44,17,60	41,00,50	43,13,95	48,35,46
<b>Total : Operational Units</b>		<b>28,03,30</b>	<b>36,48,74</b>	<b>44,17,60</b>	<b>41,00,50</b>	<b>43,13,95</b>	<b>48,35,46</b>
<b>Total : Non Development</b>		<b>28,03,30</b>	<b>36,48,74</b>	<b>44,17,60</b>	<b>41,00,50</b>	<b>43,13,95</b>	<b>48,35,46</b>
<b>Approved Projects</b>							
4305-5039 - Development and Dissemination of Agricultural Technologies of Jute and Allied Fibre Crops.	1-2	5,35,00	10,00,00	10,00,00	6,04,00	0	0
4305-8450 - Fundamental and Applied Research on Jute (01/09/2010-31/08/2013)	1	17,00,00	11,00,00	12,76,00	12,55,00	0	0
<b>Total : Approved Projects</b>		<b>22,35,00</b>	<b>21,00,00</b>	<b>22,76,00</b>	<b>18,59,00</b>	<b>0</b>	<b>0</b>
<b>Total : Development</b>		<b>22,35,00</b>	<b>21,00,00</b>	<b>22,76,00</b>	<b>18,59,00</b>	<b>0</b>	<b>0</b>
<b>Total :</b>		<b>50,38,30</b>	<b>57,48,74</b>	<b>66,93,60</b>	<b>59,59,50</b>	<b>43,13,95</b>	<b>48,35,46</b>

### 6.7 Bangladesh Institute of Nuclear Agriculture (BINA)

**6.7.1 Recent Achievements:** During the last three years, Bangladesh Institute of Nuclear Agriculture (BINA) has released 24 high yielding varieties of different crops such as eight varieties of rice, two varieties of mustard, two variety of sesame, two variety of chickpea, four varieties of lentil, three varieties of tomato and three varieties of groundnut (2013-14: Binadhan-11, Binadhan-12, Binadhan-13 & Binadhan-14, Binasarisa-9 & Binasarisa-10, Binatil-3, Binamasur-7; 2014-15: Binadhan-15 & Binadhan-16, Binamasur-8 & Binamasur-9, Binachinabadam-7, Binachinabadam-8 & Binachinabadam-9; and Binadhan-17 & Binadhan-18, Binatomato-11 & Binatomato-12, Binasola-9 & Binasola-10, Binatil-4 and Binamasur-10). Fertilizer requirement has been determined for higher production of different crops. Besides, 555 Metric ton seeds of 45 varieties of 8 different crops have been supplied for production of breeder and truthfully labelled seeds. Forty thousand and four hundred fifty blocks and experimental demonstrations have been established at 43 different districts of the country. Eight thousand and two hundred fifty farmers, one thousand two hundred officers and staffs of DAE, BADC and NGO's have been trained by BINA. One lack copies of leaflet, booklet and BINA profile have been published. Fifteen non-commodity technologies have been innovated

on soil management, bio-fertilizer production, insect and diseases management, irrigation and water management, crop management and on farm research.

### 6.7.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
				5	6	7	8	9	10	11
1	2	3	4	5	6	7	8	9	10	11
1. Innovation of high yielding varieties of different crops, and technologies	Innovated varieties	1	Number	7	8	7	4	7	8	8
	Innovated technologies			7	6	7	3	7	7	7
2. Innovated technologies and varieties of rice and other crops tolerant of salinity, drought and water submergence and other adverse conditions	Innovated varieties)	1	Number	2	-	3	2	2	2	2
	Innovated technologies			2	2	3	1	1	1	1
	Innovated microbial fertilizer			-	-	-	1	1	1	1
3. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Persons/farmers trained	1	Person (in thousands)	3	2.36	3.30	3.00	3.50	3.60	3.00
	Extensions officers trained		Number (in persons)	1000	700	1100	600	700	800	800
	Exhibition set		Number (Thousands)	1.60	2.94	1.70	1.50	1.60	1.70	1.70
	Workshop/seminar organized		Number	30	22	35	25	28	30	30
	Varieties transferred to DAE			5	13	5	6	6	7	7
	Technologies transferred to DAE			4	4	5	3	3	4	4
	Varieties transferred at field level			5	12	6	6	6	7	7
	Technologies transferred at field level			4	3	5	3	3	4	4
4. Production, certification and distribution of breeder, foundation, certified and truthfully level seeds	Breeder seeds produced	2	Metric ton	20	46	20	25	30	35	35
	Truthfully labelled seeds produced			150	150	150	115	120	125	125
	Breeder seeds distributed			20	30	25	25	30	35	35
	Truthfully labelled seeds distributed			150	140	150	115	120	125	125
5. Production, certification and distribution of breeder, foundation and truthfully labeled seeds tolerant to salinity, draught and water submergence	Tolerant of adverse condition seeds produced	2	Metric ton	50	50	50	40	45	50	50
	Tolerant of adverse condition seeds distributed			50	45.60	50	40	45	50	50
6. Popularize among the farmers the use of organic fertilizer, green fertilizer and microbial fertilizer	Micro-bio fertilizer produced and distributed	3	Metric ton	0.50	0.61	0.50	0.50	0.50	0.50	0.60



Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
rallies-seminars-workshops	officer/Staffs									
	Seminar/workshop arranged			12	12	12	12	12	12	12
	Varieties transferred at field level			1	1	1	1	1	1	1
	Technologies transferred at field level			5	5	6	6	6	6	6
3. Production, certification and distribution of breeder, foundation, certified and truthfully labeled seeds	Seeds produced	2	Metric ton	4500	4500	4500	2000	2500	2500	2500
	Seed distributed			4500	4500	4500	2000	2500	2500	2500
4. Production, certification, preservation and distribution of breeder, foundation and truthfully labelled seeds with adaptability to adverse environment (salinity, draught and water submergence)	Produced seeds	2	Metric ton	100	100	150	150	200	250	300
	Distributed seeds			100	100	150	150	200	250	300

### 6.8.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4305-3257 - Bangladesh Sugarcane Research Institute	1-3	24,35,47	25,84,24	28,20,20	30,09,56	30,95,44	31,98,11
<b>Total : Operational Units</b>		<b>24,35,47</b>	<b>25,84,24</b>	<b>28,20,20</b>	<b>30,09,56</b>	<b>30,95,44</b>	<b>31,98,11</b>
<b>Approved Programmes</b>							
4396-4355 - Suitability Study of Bio-gas as a Source of Fuel in Producing Sugar or Gur from Sugarbeet	1	0	0	22,00	23,50	0	0
4396-4387 - Increasing the Cultivation and Production of Sugarcane in the Coastal Areas of Southern region Programme	1-2	27,43	27,43	27,43	0	0	0
<b>Total : Approved Programmes</b>		<b>27,43</b>	<b>27,43</b>	<b>49,43</b>	<b>23,50</b>	<b>0</b>	<b>0</b>
<b>Total : Non Development</b>		<b>24,62,90</b>	<b>26,11,67</b>	<b>28,69,63</b>	<b>30,33,06</b>	<b>30,95,44</b>	<b>31,98,11</b>
<b>Approved Projects</b>							
4305-5048 - Strengthening Integrated Research Facilities of Bangladesh Sugarcane Research institute		4,30,00	25,00,00	16,00,00	15,00,00	10,00,00	9,00,00
<b>Total : Approved Projects</b>		<b>4,30,00</b>	<b>25,00,00</b>	<b>16,00,00</b>	<b>15,00,00</b>	<b>10,00,00</b>	<b>9,00,00</b>
<b>Total : Development</b>		<b>4,30,00</b>	<b>25,00,00</b>	<b>16,00,00</b>	<b>15,00,00</b>	<b>10,00,00</b>	<b>9,00,00</b>
<b>Total :</b>		<b>28,92,90</b>	<b>51,11,67</b>	<b>44,69,63</b>	<b>45,33,06</b>	<b>40,95,44</b>	<b>40,98,11</b>

### 6.9 Barendra Multipurpose Development Authority

**6.9.1 Recent Achievements:** During the last three years 41000 hectares of land have come under controlled irrigation by installing 1273 Deep tube wells and low lift pumps, electrifying 1413 irrigation equipments, and by constructing 1602 submerged pipe lines. BMDA has re-excavated 449.50 km canal, 145 derelict ponds, excavated 28 of dug well, 1 rubber dam and also constructed 75 submerged weirs across the canal to conserve surface water which cover supplementary irrigation of about 9000 hectares of land. BMDA has produced 615 M.T rice seed and also distributed to the farmers. In Barend area, about 10.60 lac fruits, forest and medicinal saplings have been planted. BMDA has constructed 268.00 km rural road and repair 96.00 road. Besides these BMDA operates about 15400 deep tube wells per year which cover 4.840 lac hectare of land.

### 6.9.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
1. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	farmers training	1	No. (In thousands)	2.50	2.30	2.30	2.00	2.10	2.50	2.50
	Transferred Alternate wetting and drying (AWD) technology		Plot in Hectare	20	20	20	20	20	20	20
2. Procurement of irrigation machineries and increasing its availability.	Deep tube well installed and connected to electricity	2	Number	470	473	250	205	170	100	100
	Irrigation canal constructed		Kilometer	780	780	350	330	450	200	250
	Irrigation canal expanded		Number in thousands	200	204	100	100	315		
	Expanded irrigation area		Hectare (In thousands)	12	14.08	7	2.50	3.00	3.00	3.00
	Deep tube well used		Number in thousands	15.10	15.458	15.27	15.500	15.61	15.71	15.81
	Coverable irrigation area		Number in thousands	4.70	4.83	4.80	4.85	4.988	4.92	4.95
	Expanded agriable land		Hectare (In Thousand)	10	4.52	10	0.52	2	2	2
3. Expansion of minor irrigation coverage by encouraging optimal use of surface water, and increasing the area of arable land by reducing water logging and sub-mergence	Re-excavated canal	2	No.	262	185.50	137	123	130	150	150
	Cross dams constructed		no	42	42	37	42	18	10	10
	Ponds re-excavated		No	66	65	46	30	18	10	10
	Dug well excavated		No	20	7	-	20	170	150	150
	Use of power pumps		No	107	110	110	107	150	250	250
	Area covered under complementary irrigation		Hectare (Thousands)	67.12	67.50	70.20	67.50	68.00	69.00	70.00
4. Production, certification and distribution of breeder, foundation and truthfully labelled seeds	Breeder, certified and truthfully labelled seeds production and preservation	2	M.T	400	615.00	600	600	600	600	600
	Seeds distributed	2	M.T	-	615	600	600	600	600	600

### 6.9.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Approved Projects</b>							
4305-5007 - Excavation of Dug-well in Barinda Area for cultivation of crops by soft Irrigation Project.	2	0	0	6,00,00	10,00,00	0	0
4305-5027 - Rehabilitation of Old Deep Tube Wells in Rajshahi, Naogaon and Chapai Nawabgonj district.	3	24,00,00	20,00,00	20,00,00	7,91,00	0	0
4305-5038 - Extension of Irrigation in Barind Area Through Conservation of Water in Canal	3	31,00,00	40,00,00	45,00,00	37,14,00	0	0

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
4305-5046 - Quality Seed Production, Distribution & Farmers Training Project for crop Production	1-3	3,40,50	4,19,00	4,75,00	76,00	5,99,50	37,00
4305-5049 - Extension of irrigation facilities by increasing availability of surface water and removing water logging project in Naogaon District	3	11,00,00	20,00,00	25,00,00	30,00,00	13,12,50	0
4305-5051 - Enhancement of Irrigation Efficiency Through Construction of Sub-surface Irrigation Channel	1-3	13,79,00	40,00,00	40,00,00	50,00,00	0	0
4305-7630 - Deep Tube wells Installation Project (2nd Phase) (01/01/10 - 31/12/17) approved	3	45,49,00	1,00	20,90,00	20,54,00	0	0
4305-7790 - Rural Communication Development Project for Marketing Agricultural Commodities (01/10/2010 - 30/06/2014) Approved	3	90,00,00	50,64,00	55,64,00	15,21,00	0	0
4305-7850 - Panchogar, Thakurgah, Dinajpur and Jaipurhat Integrated Agriculture development Project (01/7/2010-31/12/2013)	1-3	50,00,00	30,00,00	45,65,00	0	0	0
4305-8040 - Barandra Rain-water Preservation and Irrigation Project (Phase-II) - 01/03/2011 - 30/06/2014 - Approved	3	38,00,00	37,49,00	42,50,00	19,52,00	0	0
<b>Total : Approved Projects</b>		<b>306,68,50</b>	<b>242,33,00</b>	<b>305,44,00</b>	<b>191,08,00</b>	<b>19,12,00</b>	<b>37,00</b>
<b>Total : Development</b>		<b>306,68,50</b>	<b>242,33,00</b>	<b>305,44,00</b>	<b>191,08,00</b>	<b>19,12,00</b>	<b>37,00</b>
<b>Total :</b>		<b>306,68,50</b>	<b>242,33,00</b>	<b>305,44,00</b>	<b>191,08,00</b>	<b>19,12,00</b>	<b>37,00</b>

## 6.10 Bangladesh Agricultural Research Council

**6.10.1 Recent Achievements:** During the last three years, the program review activities of 6 National Agriculture Research System (NARS) institutes, the annual research program and the budget of 13 NARS institutes have been approved by the Executive Council of the BARC. In addition to this 113 core research programs have been approved and financed through the agricultural research organizations and their associate organizations. Development and dissemination activities of 126 agricultural technologies are ongoing through 12 agricultural research institutes and associates. About 3156 field demonstration and field days on rice and pulse crops have been organized and recommendation has been made research and workshops. Foundation training of 165 agri-scientists for human resource development has been done. Short term trainings have been imparted to 2306 agri-scientists, extension officers and the farmers on 41 subjects to increase efficiency on research and technology dissemination and uplift the research standard. 2979 agri-scientists, extension officers and the farmers attended on the different seminars and workshops on 28 subjects.

### 6.10.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Innovation of high yielding varieties of different crops, and technologies.	New research action plans prepared	1	Number	39	39	40	40	42	45	48
	New research proposals approved			43	43	44	44	46	50	52
2. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Trainees			650	680	700	700	720	750	800



### 6.10.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4305-3243 - Bangladesh Agriculture Research Council	1-2	21,72,82	24,01,90	24,00,06	25,24,00	27,46,88	27,69,15
<b>Total : Operational Units</b>		<b>21,72,82</b>	<b>24,01,90</b>	<b>24,00,06</b>	<b>25,24,00</b>	<b>27,46,88</b>	<b>27,69,15</b>
<b>Total : Non Development</b>		<b>21,72,82</b>	<b>24,01,90</b>	<b>24,00,06</b>	<b>25,24,00</b>	<b>27,46,88</b>	<b>27,69,15</b>
<b>Approved Projects</b>							
4305-5004 - National Agricultura Technology Program Phase-2 Project (NATP-2) 01/10/2015-30/09/2021		0	19,20,00	3,72,00	128,85,00	180,00,00	150,00,00
<b>Total : Approved Projects</b>		<b>0</b>	<b>19,20,00</b>	<b>3,72,00</b>	<b>128,85,00</b>	<b>180,00,00</b>	<b>150,00,00</b>
<b>Total : Development</b>		<b>0</b>	<b>19,20,00</b>	<b>3,72,00</b>	<b>128,85,00</b>	<b>180,00,00</b>	<b>150,00,00</b>
<b>Total :</b>		<b>21,72,82</b>	<b>43,21,90</b>	<b>27,72,06</b>	<b>154,09,00</b>	<b>207,46,88</b>	<b>177,69,15</b>

### 6.11 Cotton Development Board

**6.11.1 Recent Achievements:** During the last three years (from 2013-14 to 2015-16), CDB conducted research in various disciplines (breeding, agronomy, entomology, soil science, pathology) on 48.0 hectares of five farms. At field/farmer level, on-farm trials were carried out in various disciplines (agronomy and soil science) on 7.46 hectares of land. At that time, 1 hybrid (CB hybrid-1) and 3 high yielding variety of cotton developed by CDB were registered with the seed wing, under ministry of agriculture and two more varieties are waiting to be released. During the last three years in farm, 17 MT breeder seeds were produced by cultivating 25 hectares land and 162.58 MT foundation seeds were produced by cultivating 178 hectares of land. At field level through contract farmers, 324.07 MT truthful labelled seeds were produced by cultivating plain land cotton and hilly cotton on 594 hectares of land. At the same time, 4 lakh 55 thousand 433 bells of cotton fiber were produced on 1, 26,998 hectares of land.

### 6.11.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Innovation of high yielding varieties of different crops, and technologies.	Innovation of varieties	1	Number	1	2	1	1	-	1	1
	Set-up trail			67	67	60	56	60	60	60
	Participatory research/ Demonstrated plot			172	172	160	112	-	-	-
	Technologies innovated			2	2	1	4	-	1	1
	Cotton produced			Bale (Lakh)	1.66	1.66	1.70	1.72	1.80	1.85
2. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Cotton farmers trained	1	Number In thousand	25.00	24.34	25.00	20	25.00	25.00	25
3. Production, certification and distribution of breeder, foundation, certified and truthfully level seeds	Production and distribution of truthfully labelled seeds	2	Metric ton	250	242	250	150	250	250	150
4. Production, certification, preservation and distribution of breeder, foundation and truthfully labelled seeds with adaptability to adverse environment (salinity, draught and water submergence)	Seeds distributed	2	kg	50	50	100	58	100	150	100
5. Marketing and ginning of cotton seeds	Distributed	2	Metric ton	248	240	450	260	450	450	250

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
6. Publicity and preservation of information agriculture marketing and development	-	4	Number	5	4	5	3	5	5	5
7. Encouraging the participation of the private sector in production and development of seeds through meetings, seminars, fairs and technology exchange	Workshop, Meeting-Seminar	2	Number	5	3	5	5	5	5	5

### 6.11.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4339-0000 - Cotton Development Board	1-5	34,35,02	39,35,27	40,64,68	45,85,80	46,18,07	46,40,55
<b>Total : Operational Units</b>		<b>34,35,02</b>	<b>39,35,27</b>	<b>40,64,68</b>	<b>45,85,80</b>	<b>46,18,07</b>	<b>46,40,55</b>
<b>Approved Programmes</b>							
4396-4443 - Identification of Bt Cotton Gene and Efficacy Determination Research Program	1-2	4,32,97	2,31,82	2,31,82	0	0	0
<b>Total : Approved Programmes</b>		<b>4,32,97</b>	<b>2,31,82</b>	<b>2,31,82</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total : Non Development</b>		<b>38,67,99</b>	<b>41,67,09</b>	<b>42,96,50</b>	<b>45,85,80</b>	<b>46,18,07</b>	<b>46,40,55</b>
<b>Approved Projects</b>							
4339-5011 - Expansion of cotton Cultivation Project (Phase-1)	1-2	18,59,21	20,00,00	28,96,00	23,61,00	0	0
<b>Total : Approved Projects</b>		<b>18,59,21</b>	<b>20,00,00</b>	<b>28,96,00</b>	<b>23,61,00</b>	<b>0</b>	<b>0</b>
<b>Total : Development</b>		<b>18,59,21</b>	<b>20,00,00</b>	<b>28,96,00</b>	<b>23,61,00</b>	<b>0</b>	<b>0</b>
<b>Total :</b>		<b>57,27,20</b>	<b>61,67,09</b>	<b>71,92,50</b>	<b>69,46,80</b>	<b>46,18,07</b>	<b>46,40,55</b>

## 6.12 Seed Certification Agency

**6.12.1 Recent Achievements:** During the last three years 98743 hectares of seed-crop field of notified crops have been inspected and evaluated; and 3,49,98,858 certification tags have been issued. In National and Regional Seed Laboratories purity analysis, moisture determination and germination tests have been conducted of 18,691 seed samples including ISTA (International Seed Test Association) referee samples. Quantity of seed under the tested lots was 1,54,746 metric tons. 4805 farmers & seed dealers and 1790 officers & staffs have been trained on seed production, processing & preservation and seed legislations. During the time 182 varieties of rice, 112 varieties of potato, 33 varieties of wheat, and 15 varieties of jute have been evaluated through DUS & VCU tests. The National Seed Board has released inbred 27 varieties of rice, 26 varieties of potato, 2 varieties of wheat, 3 varieties of jute and 4 varieties of sugarcane and registered 39 hybrid varieties of rice. During last three years, experiments have been performed on 3441 samples of rice, 453 samples of wheat, 511 samples of jute and 602 samples of potato from certified seed lots through pre-post-control grow-out tests.

### 6.12.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Trained farmers	1	Person	600	700	800	750	800	900	950
	Seminar/workshop arranged			4	6	8	6	6	6	6
2. Production, certification and distribution of breeder, foundation,	Field visit of breeder, certified,	2	Hector (Thousands)	33	44	43	50	52	55	57

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
certified and truthfully labeled seeds	foundation and Truthfully labeled (rice, wheat, potato and jute)									
	Production of breeder, foundation and certified seeds (Rice, wheat, potato and jute)		M.T (Thousands)	120	129	150	135	140	150	155
	Sample of breeder, foundation and certified seeds rice, wheat, potato and jute tested		Number	5300	4739	6500	4800	5200	5500	5700
3. Production, certification, preservation and distribution of breeder, foundation and truthfully labelled seeds with adaptability to adverse environment (salinity, draught and water submergence)	Production of breeder, foundation and certified seeds (Rice, wheat, potato and jute)	2	Hector (Thousands)	0.3	4.5	0.5	5.5	6	6.5	7
	Sample of breeder, foundation and certified seeds rice, wheat, potato and jute tested		MT (Thousands)	0.6	3	0.8	4.5	6	7	8
4. Ensuring the standardization of seeds	Sample experiment at farmer's level (rice, wheat and jute)	2	Number	1900	2300	2000	2500	2550	2600	2650
	Examination of standardization through Marketing monitoring, sample collection experiment		Number	200	120	450	1600	1700	1800	1900
	Variety evaluated (DUS, VCU experiment)	2			201		215	250	230	250
5. Encouraging the participation of the private sector in production and development of seeds through meetings, seminars, fairs and technology exchange.	Developed private entrepreneurs for the production of certified seeds	2	Number)	70	112	80	130	140	150	155

### 6.12.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4338-0000 - Seed Certification Agency	1-5	17,09,07	18,84,33	19,51,67	27,68,74	29,34,21	32,22,87
<b>Total : Operational Units</b>		<b>17,09,07</b>	<b>18,84,33</b>	<b>19,51,67</b>	<b>27,68,74</b>	<b>29,34,21</b>	<b>32,22,87</b>

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Approved Programmes</b>							
4396-4390 - Modernization of Seed Certification Tag and Strengthening of its Distribution Programme	1-5	1,78,06	1,71,50	1,71,50	0	0	0
<b>Total : Approved Programmes</b>		<b>1,78,06</b>	<b>1,71,50</b>	<b>1,71,50</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total : Non Development</b>		<b>18,87,13</b>	<b>20,55,83</b>	<b>21,23,17</b>	<b>27,68,74</b>	<b>29,34,21</b>	<b>32,22,87</b>
<b>Total :</b>		<b>18,87,13</b>	<b>20,55,83</b>	<b>21,23,17</b>	<b>27,68,74</b>	<b>29,34,21</b>	<b>32,22,87</b>

## 6.13 Agricultural Information Services

**6.13.1 Recent Achievements:** In the last Three Years, nearly 20.22 lac "krishikotha", 48000 Copies "Samprosaron Barta", 5.67 Lac Leaflets, 4.26 Lac Booklets have been printed and distributed among the farmers and related stakeholders. In the same period 2820 Agriculture related Documentaries by Mobile Cinema Van Shows have been displayed. Moreover 910 Episodes of 'Mati o Manush', 1045 Episodes of "Banglar Krishi" have been transmitted on BTV. Both from the national and regional stations of Bangladesh Betar 14 hours Program have been Broadcasted daily. 130 talk shows in Radio and TV have been transmitted. Besides, 17 Films and 37 Fillers have been made. 125 training courses and 56 Workshops have been conducted in the last 3 Years. Moreover Agriculture Information Service plays a vital role on behalf of Ministry of Agriculture to arrange national fruit fair, world food day and other program related to agriculture. Krishi Radio at Amtali upazilla under Barguna district, 37 agro-based E-book, Krishi Call Center (16123), 499 AICC have been established/launched in the said period. Those activities have been taken for dissemination of modern agriculture information and technology.

### 6.13.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Increase the use of innovated varieties and technologies by farmers through training, publications and exhibitions-fairs-rallies-seminars-workshops	Trainees	1	Number (in thousands)	1.65	1.65	1.80		2.00	2.20	
	Poster			180	179	180		200	220	
	Booklet			75	70	75		80	100	
	Leaflet			60	60	65		70	80	
	Krishikotha published			570	781	600		620	650	
	Extension barta published			12	13.50	13		14	14	
	Agriculture dairy			12	12	13		14	14	
2. Provision of E-agriculture based information services	AICC formed	1	Number	254	254	-		-	-	
	Benefited from AICC			1300000	2540000	1400000		1500000	1580000	
	Films/filler documentary made			5	5	8		10	12	
	TV, radio, advertisement			18	18	20		25	30	
	Cinema show			90	90	100		110	120	
	Online Argil. Technology transferred			7000	700	1250		1400	1500	
	Agriculture information service at fingers touch (online kiosk)			2	0	3		4	4	
	Website updated (regional site with category)			15	15	0		0	20	
	E-book			15	15	20		22	25	
	Mati O Manush programme broadcasted			320	320	325		330	330	
	Talk show			50	50	55		60	60	

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
3. Increasing awareness about food value and nutrition through publications, meetings and workshops	Film Filler	1	Number	6	2	3		5	6	
	Video footage			10	2	3		5	6	
	Poster		Number (in thousands)	80	19	50		60	70	
	Booklet			55	10	25		30	40	
	Leaflet			60	19	25		30	40	
Cinema show	Number	880	870	910		950	960			
4. Popularize among the farmers the use of organic fertilizer, green fertilizer and microbe fertilizer	Establishment of Community Radio	3	Number	-		-		-	-	
	Documentary prepared			3	2	3		5	6	
	Fillers prepared			5	2	3		5	6	

\* No projection in the future years has shown because a project regarding this activity has completed.

### 6.13.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4341-0000 - Agricultural Information Service	1-5	10,43,34	13,08,82	12,45,76	14,23,64	14,03,88	14,56,73
<b>Total : Operational Units</b>		<b>10,43,34</b>	<b>13,08,82</b>	<b>12,45,76</b>	<b>14,23,64</b>	<b>14,03,88</b>	<b>14,56,73</b>
<b>Total : Non Development</b>		<b>10,43,34</b>	<b>13,08,82</b>	<b>12,45,76</b>	<b>14,23,64</b>	<b>14,03,88</b>	<b>14,56,73</b>
<b>Total :</b>		<b>10,43,34</b>	<b>13,08,82</b>	<b>12,45,76</b>	<b>14,23,64</b>	<b>14,03,88</b>	<b>14,56,73</b>

### 6.14 Department of Agricultural Marketing

**6.14.1 Recent Achievements:** During the period of last three years, Department of Agricultural Marketing (DAM) has extended its market information collection and dissemination system in 64 districts and 04 upazillas through websites (internet). Towards providing fair prices to the farmers, necessary actions have been continuing to make operative the previously constructed 21 wholesale markets, 60 growers markets and 01 central market in Gabtoli, Dhaka as well as providing necessary support services through 1 truck and 07 cool vans. For marketing of agricultural products and creating value addition opportunities, 05 office cum processing and training centers have been constructed in Comilla, Narsingdi, Rangpur, Khulna and Chuadanga. Also 12 assemble centres have been constructed in selected districts. Meanwhile, 1440 farmers' marketing groups have been formed and 2500 persons have been given motivational tours. 150 vans have been distributed among farmers through hire purchase basis under a program. 26280 farmers have been given training under different projects implemented by the department. An amount of Taka 3622 lakh credit have been distributed among 28,458 farmers against 30669 metric tons of stored crop in 35 districts under Shasso Gudam Rin Karjokram. Again an amount of Taka 420 crore credit have been distributed among 46,324 (45% women) agro-entrepreneurs towards development of agribusiness activities. Ten Model potato store houses have been constructed under a program with a view to store potato at low cost.

### 6.14.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
1. Publicity and preservation of information on agricultural marketing and development	Publish market price in Website	4	Number	20000	20020	20000	20000	20000	20000	20000
	Publish Bulletin			4000	4030	4000	4000	4000	4000	4000
	Published Report			300	302	300	300	300	300	300
2. Development and maintenance of market infrastructure and	Construction of Assembling	4	Number	5	4	3	4	2	2	4

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets			
				2015-16	2016-17	2017-18	2018-19	2019-20			
1	2	3	4	5	6	7	8	9	10	11	
provide other supports	Centre										
	Market infrastructure constructed and repaired			1	1	0	0	0	0	0	
	Construction and repair of crop storage			5500	8506	6000	4100	4200	4500	4600	
	Formation of farmers group			100	100	100	160	100	150	170	
	Motivational tour			360	800	400	800	400	450	500	
	Farmer trainees			No. (in thousands)	2.44	3.500	3.00	6.400	3.50	3.50	4.00
	Loan provided against storage crops			Taka (in lakh)	1100	1383	600	410	420	450	460
3. Providing technological support and technical assistance to agricultural entrepreneurs and encouraging their investment in agro-processing and agro-business	Agri-business entrepreneurship created (male & female)	4	No. (in thousands)	1	1.5	1	1	1	0	0	
	Establish training cum agro-processing center		No	-		1	1	-	-		

### 6.14.3 Operational Unit, Programs and Projects Wise Medium Term Estimated Expenditure

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4343-0000 - Department of Agricultural Marketing	1-3	17,92,90	21,20,58	21,50,26	23,71,12	25,08,94	26,47,65
<b>Total : Operational Units</b>		<b>17,92,90</b>	<b>21,20,58</b>	<b>21,50,26</b>	<b>23,71,12</b>	<b>25,08,94</b>	<b>26,47,65</b>
<b>Approved Programmes</b>							
4396-4356 - Expansion of Processing and marketing Activities of Freshcut Vegetables and Fruits Programme	2,3	0	0	55,00	60,80	24,80	0
4396-4456 - Programme on Homestead level Potato storage, processing & marketing	1-3	17,58	23,00	59,00	23,00	0	0
<b>Total : Approved Programmes</b>		<b>17,58</b>	<b>23,00</b>	<b>1,14,00</b>	<b>83,80</b>	<b>24,80</b>	<b>0</b>
<b>Total : Non Development</b>		<b>18,10,48</b>	<b>21,43,58</b>	<b>22,64,26</b>	<b>24,54,92</b>	<b>25,33,74</b>	<b>26,47,65</b>
<b>Approved Projects</b>							
4343-5010 - Mujibnagar Integrated Agriculture Development Project-(DAM Part)-Approved-01/07/2011 - 30/06/2017	1-3	81,30	23,00	1,10,00	0	0	0
4343-5012 - Integrated Agricultural Development Project in Pirojpur-Gopalganj-Bagerhat	1-3	3,78,05	2,85,00	2,81,00	0	0	0
4343-5013 - Increasing Cropping Intensity in Sylhet Region Project (DAM Part)	1-3	84,93	3,34,00	3,34,00	5,30,00	3,59,00	0
<b>Total : Approved Projects</b>		<b>5,44,28</b>	<b>6,42,00</b>	<b>7,25,00</b>	<b>5,30,00</b>	<b>3,59,00</b>	<b>0</b>
<b>Total : Development</b>		<b>5,44,28</b>	<b>6,42,00</b>	<b>7,25,00</b>	<b>5,30,00</b>	<b>3,59,00</b>	<b>0</b>
<b>Total :</b>		<b>23,54,76</b>	<b>27,85,58</b>	<b>29,89,26</b>	<b>29,84,92</b>	<b>28,92,74</b>	<b>26,47,65</b>

### 6.15 Soil Resource Development Institute

**6.15.1 Recent Achievements:** During the last 3 years 85 Land & Soil Resources Utilization Guides (popularly known as Upazila Nirdeshika) have been updated by conducting semi-detailed soil survey throughout the country. It aims to ensure judicious, profitable and sustainable utilization of ever decreasing land and soil resources of the country. 22,500 soil samples of Upazila Nirdeshika updating programme; and 70,000 soil,

water and plant samples under Mobile Soil Testing Laboratories (MSTL) & other programmes have been analyzed. At the same time, 45,000 fertilizer recommendation cards have been distributed 6 days' training on application of Upazila Nirdeshika to 1,250 district and upazila level officers and 2,150 Sub Assistant Agriculture Officers (SAAO); 1 day training on soil sample collection technique and balanced fertilizer use for sustainable soil management to 54,200 farmers have been given . 12,500 fertilizer samples have been analyzed with a view to identifying adulterated fertilizer. About 800 farmers, fertilizer dealers and public representatives have been trained on adulterated fertilizer identification at field level without chemical analysis. A considerable number of Reports on union wise Land, Soil and Fertilizer Recommendation Guide (Union Sahayaika), booklets on adulterated fertilizer identification at field level, Cotton suitability reports, fertilizer recommendation festoons for crops according to soil nutrient status and leaflets on saline soil management have been published.

### 6.15.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets			
				2015-16	2016-17	2017-18	2018-19	2019-20			
1	2	3	4	5	6	7	8	9	10	11	
1. Agri e-information service	Online services received	3	Number)	10000	10500	11000	11000	12000	12500	13000	
2. Identification of soil and land resources through soil survey and classification of land and soil resources in terms of their productivity	Field survey	3	Number	15	15	21	30	30	30	30	
	Upazilla directories printed			20	20	20	30	30	30	30	30
	Union wise land, soil and fertilizer recommendations materials published			170	170	100	100	100	100	100	100
3. Extension of soil test facilities to Upazila and Union level	Soil samples analyzed	3	Number (Thousands)	17	18.5	18	18	18.50	18.50	19	
	Farmer's soil sample analyze and fertilizer recommendation card distributed in MSTL		Number	5600	5600	5600	5600	5600	5600	5600	
	Fertilizer recommendation card printed and distributed samples of fertilizer analyzed		Number	17000	15825	17500	17500	17500	17500	18000	
	Fertilizer sample analyze		Number	3500	3197	3500	3500	4000	4000	4000	
4. Popularizing sustainable soil management technologies among the farmers	Soil preservation and water diversification management technology	3	Number	1	1	2	2	1	1	1	
5. Popularize among the farmers the use of organic fertilizer, green fertilizer and microbe fertilizer	Farmers training	3	Number	10800	12000	12000	12000	12000	12000	12000	
	Exhibition of innovated technologies on soil and fertilizer set			50	65	40	40	21	21	21	
	Farmers meeting/ field day			59	65	65	65	21	21	21	

### 6.15.3 Operational Unit, Programs and Projects Wise Medium Term Estimated Expenditure

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4345-0000 - Soil Research and Other Research Facilities	1-3	24,68,28	31,70,78	31,08,85	38,51,17	42,43,23	45,70,27
<b>Total : Operational Units</b>		<b>24,68,28</b>	<b>31,70,78</b>	<b>31,08,85</b>	<b>38,51,17</b>	<b>42,43,23</b>	<b>45,70,27</b>
<b>Approved Programmes</b>							
4396-4442 - Offline Digital Fertilizer Recommendation Program	1-3	1,86,02	1,85,50	1,85,50	0	0	0
<b>Total : Approved Programmes</b>		<b>1,86,02</b>	<b>1,85,50</b>	<b>1,85,50</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total : Non Development</b>		<b>26,54,30</b>	<b>33,56,28</b>	<b>32,94,35</b>	<b>38,51,17</b>	<b>42,43,23</b>	<b>45,70,27</b>
<b>Approved Projects</b>							
4345-5013 - Establishment of Fertilizer Testing Laboratories and Research Centre	1-3	15,50,46	4,76,00	4,55,00	0	0	0
4345-5014 - Integrated Agricultural Development Project in Pirojpur-Gopalganj-Bagerhat	1-3	3,32,61	2,84,00	2,81,00	0	0	0
<b>Total : Approved Projects</b>		<b>18,83,07</b>	<b>7,60,00</b>	<b>7,36,00</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total : Development</b>		<b>18,83,07</b>	<b>7,60,00</b>	<b>7,36,00</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total :</b>		<b>45,37,37</b>	<b>41,16,28</b>	<b>40,30,35</b>	<b>38,51,17</b>	<b>42,43,23</b>	<b>45,70,27</b>

### 6.16 Bangladesh Applied Nutrition and Human Resource Development Board

**6.16.1 Recent Achievements:** A total of 13,504 District/Upazila GO & NGO Officers, Sub-Assistant Agriculture Officers, Field Workers of Women & Children Affairs, School Teachers, Social Workers, Up Members, Imam/ Other religious Leaders, NGO Workers & the Farmers have been trained on food based nutrition. During the last 3 years, 72 radio talks have been broadcasted in order to increase awareness of the general mass. 17 Agricultural fairs, World Food Day and Nutrition week have been observed. Day-long 18 workshops entitled 'the effect of color and chemical mixed food on human health' have been organized. A total no. of 712 Upazila Agriculture Officers, Agriculture Extension Officer, School/College Teachers, Sub-Assistant Agriculture Officers, Imam & NGO Representatives have participated in the workshops.

#### 6.16.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
1. Increasing awareness about food value and nutrition through training publications, meetings and workshops	Workshops	1	Number	10	10	10	10	10	12	8
	Short stories transmit through Radio			24	24	36	24	36	36	36
	Participation in fair			12	12	12	10	10	10	08

### 6.16.3 Operational Unit, Programs and Projects Wise Medium Term Estimated Expenditure

(Taka in Thousands)

Name of the Operational Unit/Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4305-3259 - Bangladesh Institute of Research and Training On Applied Nutrition (BIRTAN).	1-2	2,62,67	3,44,90	4,53,09	14,44,83	17,24,65	19,91,00
<b>Total : Operational Units</b>		<b>2,62,67</b>	<b>3,44,90</b>	<b>4,53,09</b>	<b>14,44,83</b>	<b>17,24,65</b>	<b>19,91,00</b>
<b>Total : Non Development</b>		<b>2,62,67</b>	<b>3,44,90</b>	<b>4,53,09</b>	<b>14,44,83</b>	<b>17,24,65</b>	<b>19,91,00</b>



Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Approved Projects</b>							
4305-5020 - Infrastructure Development and strengthening of Bangladesh institute of Research and Training on Applied Nutrition (BIRTAN) (01/07/2013-30/06/2017) approved	1-2	35,00,00	48,00,00	38,00,00	83,62,00	1,00,00	0
4305-5034 - Integrated Agricultural Approach for Ensuring Nutrition and Food Security Project (BIRTAN Phase) (01/07/2014-30/06/2019) approved	1-3	1,33,00	1,60,00	1,60,00	1,60,00	50,00	0
<b>Total : Approved Projects</b>		<b>36,33,00</b>	<b>49,60,00</b>	<b>39,60,00</b>	<b>85,22,00</b>	<b>1,50,00</b>	<b>0</b>
<b>Total : Development</b>		<b>36,33,00</b>	<b>49,60,00</b>	<b>39,60,00</b>	<b>85,22,00</b>	<b>1,50,00</b>	<b>0</b>
<b>Total :</b>		<b>38,95,67</b>	<b>53,04,90</b>	<b>44,13,09</b>	<b>99,66,83</b>	<b>18,74,65</b>	<b>19,91,00</b>

## 6.17 National Agricultural Training Academy (NATA)

**6.17.1 Recent Achievements:** NATA is organizing "Training Need Assessment Workshop" and providing training through high officials involved in human resource development of 16 institutions under Ministry of Agriculture. In the year 2014-15, NATA arranged one workshop and training programs of 120 officers with its allocated budget. In the year 2015-16, NATA organized and imparted training to 522 class-1 officers. It includes, 15 batch (8 technical and 7 management courses) training courses of 450 officers and also hosting two batches of foundation training (N-60<sup>th</sup> and N-61<sup>st</sup>) of six month long for nine different BCS cadres comprising 72 participants altogether as an extended program of the BPATC. Besides this three trainings, seminar/workshops have also been organized successfully. Seven demonstrations have been established to facilitate the training courses on technical issues. In addition, NATA has already introduced online registration system in training enrollment and established digital computer cum language lab for facilitating the Training Program.

### 6.17.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Increase the use of innovated varieties and technologies by farmers through, training, publications and exhibitions-fairs-rallies-seminars-workshops	Trainees	1	Number	500	522	650	510	900	930	960
	Exhibitions			2	1	4	3	2	2	2

### 6.17.3 Operational Unit, Programs and Projects Wise Medium Term Estimated Expenditure

(Taka in Thousands)

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4336-0002 - National Agriculture Training Academy	1	6,08,98	7,71,41	8,19,88	8,20,03	9,06,27	9,51,96
<b>Total : Operational Units</b>		<b>6,08,98</b>	<b>7,71,41</b>	<b>8,19,88</b>	<b>8,20,03</b>	<b>9,06,27</b>	<b>9,51,96</b>
<b>Approved Programmes</b>							
4396-4441 - Activities Enhancement Program on National Agriculture Training Academy	1	39,82	14,75	14,75	0	0	0
<b>Total : Approved Programmes</b>		<b>39,82</b>	<b>14,75</b>	<b>14,75</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total : Non Development</b>		<b>6,48,80</b>	<b>7,86,16</b>	<b>8,34,63</b>	<b>8,20,03</b>	<b>9,06,27</b>	<b>9,51,96</b>
<b>Approved Projects</b>							
4336-5000 - Strengthening of National Agriculture Training Academy	1	1,52,71	13,00,00	4,50,00	11,67,00	10,00,00	3,74,00
<b>Total : Approved Projects</b>		<b>1,52,71</b>	<b>13,00,00</b>	<b>4,50,00</b>	<b>11,67,00</b>	<b>10,00,00</b>	<b>3,74,00</b>
<b>Total : Development</b>		<b>1,52,71</b>	<b>13,00,00</b>	<b>4,50,00</b>	<b>11,67,00</b>	<b>10,00,00</b>	<b>3,74,00</b>
<b>Total :</b>		<b>8,01,51</b>	<b>20,86,16</b>	<b>12,84,63</b>	<b>19,87,03</b>	<b>19,06,27</b>	<b>13,25,96</b>