

**Grant No. 38**  
**44 - Ministry of Fisheries and Animal Resources**  
**Medium Term Expenditure**

(Taka in Thousand)

	Budget 2010-11	Projection 2011-12	Projection 2013-12
Non-Development	488,02,48	506,65,16	548,20,11
Development	373,46,00	456,75,66	542,42,44
Total	861,48,48	963,40,82	1090,62,55

## 1. Mission Statement and Major Functions

### 1.1 Mission Statement

Meet the demand of animal protein of all the people of the country and provide assistance to increase export by enhancing production through development of fisheries and livestock resources, conservation, research and extension programmes.

### 1.2 Major Functions

- (a) Formulate, upgrade and implement laws and policies relating to fisheries and livestock;
- (b) Development of varieties of fish, livestock and poultry and diseases prevention and control;
- (c) Research and training programmes relating to fisheries and livestock resources;
- (d) Livestock nutrition and artificial breeding;
- (e) Matters relating to fish resources, livestock surveys and zoos;
- (f) Development, extraction, conservation and management of marine fisheries;
- (g) Milk, cattle and poultry farm management and quality control;
- (h) Increase production of fish, meat, milk and eggs to achieve self-sufficiency in protein.

## 2. Medium Term Strategic Objectives and Key Activities

Medium Term Strategic Objectives	Key Activity	Implementing Departments/Agencies
1. Increase productivity of fish farming in both inland closed and open water bodies	<ul style="list-style-type: none"> <li>• Conduct training programmes on modern fish farming technology and management strategy</li> <li>• Ensure execution of the existing laws for conservation of fish</li> <li>• Organise fishermen to bring 'Jalmahals' and flood plain land under community based management</li> </ul>	<ul style="list-style-type: none"> <li>• Department of Fisheries</li> </ul>

Medium Term Strategic Objectives	Key Activity	Implementing Departments/Agencies
	<ul style="list-style-type: none"> <li>Establish fish sanctuaries and develop fish habitat</li> </ul>	
2. Increase income of the poor fishermen	<ul style="list-style-type: none"> <li>Expand cage and pen aquaculture through training and technical support</li> <li>Provide assistance for fish farming in paddy fields</li> <li>Develop and operate demonstration farms</li> </ul>	<ul style="list-style-type: none"> <li>Department of Fisheries</li> </ul>
	<ul style="list-style-type: none"> <li>Increase the skill of implementation of Plan and Programmes prepared by the ministry</li> </ul>	<ul style="list-style-type: none"> <li>Secretariat</li> </ul>
3. Supply of quality fish in national and international markets and ensure export of fish products	<ul style="list-style-type: none"> <li>Implementation of Quality Control Sub-strategy for appropriate operation of business, establishment of lab and enhance the efficiency of Quality Control Section of the ministry</li> <li>Strengthening of publicity against production and processing of polluted including formalin mixed food</li> </ul>	<ul style="list-style-type: none"> <li>Department of Fisheries</li> </ul>
	<ul style="list-style-type: none"> <li>Provision of fish landing facilities, production and sale of ice at the landing facilities, development of infrastructure for fish processing, freezing and repair of marine vessels at Marine Fish Workshop</li> <li>Installation of fish marketing facilities in greater Dhaka City</li> <li>Increase fish production in Kaptai Lake, strengthening of conservation and management</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Fisheries Development Corporation</li> </ul>
4. Increase skill in extraction of marine fish	<ul style="list-style-type: none"> <li>Training relating to operation and maintenance of mechanised fishing boats and their machinery</li> <li>Develop skilled manpower capable of running sea going fishing vessels</li> <li>Training on extraction, preservation and quality control of marine fish</li> </ul>	<ul style="list-style-type: none"> <li>Marine Fisheries Academy</li> </ul>
5. Increase the productivity of livestock resources	<ul style="list-style-type: none"> <li>Extension of animal health services, ensure the quality of livestock food, prevention and control of livestock and poultry diseases through increase of vaccination and spray</li> <li>Development of livestock and poultry farm management through increased training and mass</li> </ul>	<ul style="list-style-type: none"> <li>Department of Livestock</li> </ul>

Medium Term Strategic Objectives	Key Activity	Implementing Departments/Agencies
	awareness campaigns <ul style="list-style-type: none"> <li>• Increase productivity of meat and milk and provide incentives to expand this industry</li> <li>• Assist small farm owners engaged in milk processing to market their milk and milk products</li> </ul>	
6. Development of the poultry sector	<ul style="list-style-type: none"> <li>• Prevention and control of different diseases of poultry and Avian Influenza by increasing the production of vaccines</li> <li>• Provide sustainable technological support for production of broiler chicken on a commercial basis and supply of chicks at low cost to farmers at the union level</li> <li>• Provide technological support for efficient waste management in the poultry industry, including the production of biogas</li> </ul>	<ul style="list-style-type: none"> <li>• Department of Livestock</li> </ul>
	<ul style="list-style-type: none"> <li>• Motivate village people to rear poultry and carryout publicity activities advising on the scientific marketing of milk and poultry based products</li> </ul>	<ul style="list-style-type: none"> <li>• Fisheries and Livestock Information Bureau.</li> <li>• Department of Livestock</li> </ul>
7. Strengthen fish and livestock research and extension programmes	<ul style="list-style-type: none"> <li>• Research on variety development of cattle, buffalo, goat, sheep and poultry and transfer of the research findings</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Livestock Research Institute</li> </ul>
	<ul style="list-style-type: none"> <li>• Increase the nutritional quality of livestock fodder through the use of biotechnology, the development of new varieties of fodder and preservation of existing varieties and provide training to farm owners</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Fisheries Research Institute</li> <li>• Bangladesh Livestock Research Institute</li> </ul>
	<ul style="list-style-type: none"> <li>• Research on the management and development of inland open water, coastal and marine fish</li> <li>• Development of modern technology to improve fish and shrimp farming and the development of commercially important fish varieties</li> <li>• Research on breeding of endangered varieties of fish and conservation of the gin pool and conducting technology based training</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Fisheries Research Institute</li> </ul>
	<ul style="list-style-type: none"> <li>• Motivate the people to culture fish and expansion of livestock</li> </ul>	<ul style="list-style-type: none"> <li>• Fisheries and Livestock Information</li> </ul>

Medium Term Strategic Objectives	Key Activity	Implementing Departments/Agencies
	resources, creation of public awareness and prevent killing of Jhatka	Bureau
	<ul style="list-style-type: none"> <li>Registration for veterinary doctors</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Veterinary Council</li> </ul>

### 3. Poverty and Gender Reporting

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

##### 3.1.1 Increase productivity of fish farming in both inland closed and open water bodies

**Impact on Poverty Reduction:** Fish production will increase greatly through the extension of different technologies relating to fish farming throughout the country. The application of organic management in open air fisheries, the implementation of a fish conservation law, the reform of fish habitat and establishment of fish sanctuaries will create employment opportunities for 10 lakh poor people.

**Impact on Women's Advancement:** Employment of women will increase to a large extent as participation of women in income generating activities like fish farming is encouraged on a priority basis.

##### 3.1.2 Increase income of poor the fishermen

**Impact on Poverty Reduction:** The income of about 2.70 lakh fishermen will increase and an additional 50 thousand jobs will be created through the formation of different group and participation of poor fishermen in the implementation of different activities under the Ministry's revenue and development budget.

**Impact on Women's Advancement:** Lease Government land, canals, beels (marshy water bodies) and ponds through NGOs and establishment of fisheries nurseries in groups will enable about 10 lakh women to participate in income generating activities in fish resources management and processing factories.

##### 3.1.3 Supply of quality fish in national and international markets and ensure export of fish products

**Impact on Poverty Reduction:** About 5 lakh people are engaged at different stages of farming, extraction and export of fish. By ensuring the quality of fish and fish products in both domestic and international markets, the income of these people will increase. This will increase the provision of safe nutrition of the poor people.

**Impact on Women's Advancement:** Women are involved at all stages of production, supply, processing and marketing of shrimp and frozen food. Most of the workers at the fish processing industries in the county are women. By promoting activities to ensure the quality of fish and fish products in both the

domestic and international markets, the women involved with these activities will benefit.

#### **3.1.4 Increase skill in extraction of marine fish**

**Impact on Poverty Reduction:** No direct impact

**Impact on Women's Advancement:** In the coming three years, in addition to building 30 skilled persons in fish export and processing technology, 100 persons including women will be included in the training programme.

#### **3.1.5 Increase productivity in the livestock sector**

**Impact on Poverty Reduction:** Improvement of the genetic characteristics of livestock through production of semen, proven ox, artificial breeding programmes and extension of transportation of embryos. It is possible to prevent and control the diseases of livestock through increase in the number of hybrid livestock, livestock health services and through production of vaccination. Programme and activities such as development of cattle farm management, provision of incentive, assistance for marketing, improvement in animal foods, training and creation of mass awareness and use of modern technology will involve the poor in these activities and increase their employment opportunities and income.

**Impact on Women's Advancement:** Women have been involved in rearing cows, goats, sheep and buffalo for many years. Under different projects of the Department of Livestock, 312,488 cultivators and farmers of which 50% are women will be trained by 2011-12 in better livestock management. Participation of the women will increase their involvement in economic activities and elevate their social status including empowerment.

#### **3.1.6 Development of the poultry sector**

**Impact on Poverty Reduction:** Different development activities within the poultry sector are` low cost supply of chicks and ducklings from government farms, the prevention and control of poultry diseases through inoculation, the provision of sustainable technological support in increasing the production of broiler chickens on commercial basis and training of 47,760 farmers on the prevention and control of avian influenza throughout the country. In addition, assistance will be provided for formation of 1,300 Community Extension Worker (CEW), creation of 213 Community Based Organisations (CBO), expansion of the poultry industry, waste management and the production of bio-gas technologies. This will increase employment opportunities and therefore the income of the poor and will also result in a greater access to services, human development opportunities and empowerment of the poor.

**Impact on Women's Advancement:** Under the Department of Livestock 35,440 cultivators and farmers will be trained by 2011-12. Efforts will be made to include 50% women in the training programmes. This will empower women, increase their access to education, training, government incentives and services and will also increase their social status.

#### **3.1.7 Strengthen fish and livestock research and extension programmes**

**Impact on Poverty Reduction:** Activities include research on livestock, development and transfer of the outcome of research, production of vaccines on

new diseases, increase in nutrition quality of animal food, development of new fodder species and conservation, impart training to the government and non-government farm owners, successful coordination between livestock research and extension, expansion of technology and training and different publicity programme to create awareness on livestock farming. Employment generation, service delivery, human skill development, development of health, nutrition and empowerment will be enhanced through management of domestic open water body, coastal and marine fish and by imparting training on culture of endangered fish species and through conducting research on conservation of gene pool and training.

**Impact on Women's Advancement:** Female entrepreneurs will be created and the income of women will increase and they will also be empowered as more women will be included in training.

### 3.2 Allocation for Poverty Reduction and Women's Advancement

(Taka in Thousand)

Particulars	Budget 2010-11	Projection 2011-12	Projection 2012-13
Poverty Reduction	199,77,61	214,63,62	240,28,48
Gender	95,81,55	104,33,36	117,58,02

## 4. Priority Spending Areas/Programmes

Priority Spending Areas/Programmes	Related Strategic Objectives
<p><b>1. Increase productivity and employment generation in the fisheries sector:</b> Through the implementation of habitat development, the creation of fish sanctuaries, bringing of flood plain land under social management and releasing fish fry, national protein deficiency will be reduced, exports will be increased and the income of fishermen will increase and their socio economic conditions will be improved. For these reasons, this sector has been identified as the highest priority activity.</p>	<ul style="list-style-type: none"> <li>• Increase productivity of fish farming in both inland closed and open water bodies</li> <li>• Increase the income of poor fishermen</li> </ul>
<p><b>2. Increase the productivity in the livestock sector:</b> As milk and meat productions will increase through the development of varieties and the national demand for protein will be met through transfer of technology, this sector has been marked as second priority sector.</p>	<ul style="list-style-type: none"> <li>• Increase productivity in the livestock sector</li> <li>• Strengthen fish and livestock research and extension programmes</li> <li>• Development of the poultry sector</li> </ul>
<p><b>3. Development of farm management:</b> Programmes have been taken for development of government and private poultry farms, livestock farms and dairy farms and as it is important to promote private entrepreneur development to meet the protein needs of the nation, this sector has been given the third priority.</p>	<ul style="list-style-type: none"> <li>• Increase productivity in the livestock sector</li> <li>• Strengthen fish and livestock research and extension programmes</li> <li>• Development of the poultry sector</li> </ul>

Priority Spending Areas/Programmes	Related Strategic Objectives
<p><b>4. Development of species of livestock and increase of the productivity:</b> Extension of artificial insemination to develop varieties, the creation of breeding bull by extending embryo transplantation, breeding up grades, the creation of beef breeds, the development of livestock nutrition and farm management activities have been undertaken to increase productivity to help meet national nutrition needs. This is why this sector has been identified as the fourth priority activity.</p>	<ul style="list-style-type: none"> <li>• Increase productivity in the livestock sector</li> <li>• Strengthen fish and livestock research and extension programmes</li> </ul>
<p><b>5. Implementation of the fish protection act, a programme for the protection of jatka and the creation of alternative employment for the fishermen who currently catch jatka:</b> If these programmes are implemented, hilsha production in the country will increase substantively, conservation of indigenous fish will strengthen and catching of fish with eggs will cease and stock of open water fish will increase. This will help to meet the domestic demand for fish and the export of fish will also increase. For these reasons, this sector has been identified as the fifth priority activity.</p>	<ul style="list-style-type: none"> <li>• Strengthen fish and livestock research and extension programmes</li> <li>• Increase the income of poor fishermen</li> </ul>
<p><b>6. Quality control and proper management of fish and fish products:</b> If quality and management of fish and fish products are brought under efficient and healthy management, production of safe fish and fish products as per consumers' demand will be ensured, foreign demand for fish and fish products will also increase; as fish and fish products market will expand and export increase, this sector has been given the sixth priority.</p>	<ul style="list-style-type: none"> <li>• Supply of quality fish in national and international markets and ensure export of fish products</li> </ul>

### Key Performance Indicators (KPIs)

Indicators	Related Strategic Objectives	Unit	Target 2008-09	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
							2010-11	2011-12	2012-13
1. Per capita meat availability per day (Need: 120 grams)	5,6	Gram	22.13	20.60	23.14	24.00	24.18	25.04	26.79
2. Per day per capita milk availability (Need: 250 ML)	5,6	M.L	47.63	44.00	49.14	49.48	51.03	52.84	56.53
3. Annual per capita egg availability (Need : 104 piece )	5,6	Number	42.50	33.00	44.84	45.00	47.33	49.93	53.42
4. Annual per capita fish availability (Need: 18 KG)	1,2	KG	17.87	17.50	18.64	19.00	19.50	20.50	21.00

## 5. Recent Achievements, Key Activities and Outputs of the Departments and Agencies under the Ministry

### 5.1 Secretariat

**5.1.1 Recent Achievements:** Through implementation of the 'Planning and Policy Support for the Ministry of Fisheries and Livestock (revised)' project, the institutional capacity of the ministry was strengthened to provide assistance in proper planning and successful implementation of different projects to be undertaken within this sector. In addition, the Planning and Policy Support Unit (PPSU) was established at the ministry level to strengthen the capacity of ministry in project planning and implementation.

#### 5.1.2 Key Activities, Outputs related to the Activity, and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Enhance skill for implementation of plan and programme prepared by the ministry	<ul style="list-style-type: none"> <li>Increase the capacity of the ministry</li> </ul>	2

#### 5.1.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. M.I.S. Training	Person	-	-	-	20	20	-
2. Local Study	Number	-	-	-	2	1	-
3. Computer/ Laptop procurement	Numaber	22	-	-	10	7	-

#### 5.1.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	45,90,60	59,98,10	74,23,01	75,29,37	81,40,66
Development	23,27,00	8,68,00	17,74,00	52,75,66	180,92,01
Total	69,17,60	68,66,10	91,97,01	128,05,03	262,32,67

#### 5.1.5 List of Projects, Programmes and Operational Unit

Operational Unit/Project/Programme	Related Key Activity
Non-Development	
Secretariat	1

Operational Unit/Project/Programme	Related Key Activity
Approved Projects:	
1. Integrated Fisheries and Livestock Development Project in Flood Control and Irrigation and other Areas 3 <sup>rd</sup> Phase	1
2. Planning and Policy Support to the Ministry of Fisheries and Livestock	1
Probable Projects:	
1 Reduction of Poverty through Aquaculture in the Flood Control, Irrigation and other Water Bodies in 29 districts	1
2. Study to Assess the Overall Development Prospects of National Fish Resources	1

## 5.2 Department of Fisheries

**5.2.1 Recent Achievements:** 85,875 fishermen were trained in fish farming. 823.70 lakh metres of illegal net was confiscated under the Jatka Protection law. 1546.97 MT of food grain and Taka 2.00 crore was utilised on alternative employment generation activities. As a result of these activities, hilsha production has increased by additional 30 thousand MT, 228.63 lakh of different varieties of fish fry were released in different water bodies. 355 fish sanctuaries were created for the conservation of indigenous fish varieties. The Hazard Analysis for Critical Control Point (Haccp) process was followed to ensure the export of quality fish and fish products. 1223 depots owner and 126,326 Gher owners were registered. 305 market visits were made to prevent the improper use of formalin in preserving fish. Water body management was improved by providing training to small fish farmers and fishermen with the involvement of NGOs. 50 thousand poor received support for fish culture in paddy fields or fish after paddy cultivation and 2,820 hectares of flood plain land were developed to improve the socio-economic conditions of the fishermen.

### 5.2.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Conduct training programme on modern fish farming technology and management strategy	<ul style="list-style-type: none"> <li>Provide training to 72,500 persons</li> </ul>	1
2. Ensure execution of the existing laws for conservation of fish	<ul style="list-style-type: none"> <li>9,380 raids were made</li> </ul>	1
3. Organising the fishermen to bring Jalmahals and flood plain lands under Community Based Management	<ul style="list-style-type: none"> <li>Increase the production of fish in Jalmahal and plain land involving the different NGOs</li> </ul>	1

Key Activity	Outputs related to the Activity	Related Strategic Objectives
4. Establish fish sanctuaries and develop fish habitats	<ul style="list-style-type: none"> <li>• Creation of permanent and temporary fish sanctuary in 80 hectares of water bodies</li> </ul>	1
5. Expand cage and pen aquaculture through training and technical support	<ul style="list-style-type: none"> <li>• Increase fish production through fish farming in pen and cage</li> </ul>	2
6. Provide assistance for fish culture in paddy fields	<ul style="list-style-type: none"> <li>• Provide training to 25,000 persons</li> </ul>	2
7. Establish and operate demonstration farms	<ul style="list-style-type: none"> <li>• Establishment and operation of 6,800 exhibition farms</li> </ul>	2
8. Quality control sub-strategy for the proper running of business and establishment of laboratories and increase skill of the quality control section of the DOF	<ul style="list-style-type: none"> <li>• Implementation of traceability</li> <li>• Implementation of National Residue Control Plan (NRCP)</li> <li>• Strengthening of management and implementation of HACCP</li> <li>• Improvement of skill of officers of Quality Control Section through training in home and abroad</li> <li>• Implementation of different Programmes through Fish Production Inspection and Quality Control Programme</li> <li>• Modernisation of Laboratory of Dhaka and Establishment of new Laboratories in Chattagram and Khulna</li> </ul>	3
9. Strengthening of Publicity against Production and Processing of all Pollution free fish food including use of formalin	<ul style="list-style-type: none"> <li>• Arrangement of different campaigns for production of unadulterated food</li> <li>• Increase awareness of fishermen and provide training for safe food through good aquaculture practices</li> </ul>	6

### 5.2.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Releasing of fish fry	Number (lakh)	143	155	155	165	175	180
2. Production of fish in Baors	MT	590	610	610	620	630	640
3. Production of fish/finger lings in fish farms	Kg	6445	6485	6485	6495	6505	6510
4. Production of Fish Fry	Number (Lakh)	298	315	315	320	325	330
5. Training	Number	68,500	75,000	75,000	95,000	100,500	115,000

### 5.2.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	27,79,86	30,24,54	37,04,88	46,98,82	48,80,51
Development	127,74,00	108,98,00	140,39,00	171,00,00	234,50,00
Total	155,53,86	139,22,54	177,43,88	217,98,82	283,30,51

### 5.2.5 List of Projects, Programmes and Operational Units

Operational Unit/Project/Programme	Related Key Activity
Operational Unit (Non-development):	
Department of Fisheries	1-9
Approved Projects:	
1. Extension of Shrimp Cultivation in Sweet Water Project	1,7,8,9
2. Restoration of Fish Habitats in Inland Open Water Bodies Project	1-7
3. Aquaculture Development and Extension Project in the Chittagong Hill Tracts	1,5, 7
4. Construction of Fish Infrastructure (Daudkandi Model) Project in Flood Plains of Comilla district a. Department of Fisheries Part b. LGED Part	1,3,4,6,7
5. Chlan Beel Fisheries Development Project	1, 3,4,6,7
6. Restoration of Natural Breeding Habitats of the Halda River	1,2,3,7
7. Regional Fisheries and Livestock Development Project (Barisal Component)	1,3,4,5,6,7,8
8. Capacity Building of Bangladesh Marine Fisheries Academy Project	1
9. Bagda Shrimp Culture Extension Project	1,7,8,9
10. Brood Bank Development Project (2 <sup>nd</sup> Phase)	1,2,4,7
11. Fisheries Diploma Course Implementation Project	1
12. Greater Pabna Fisheries Development Project	1,2,3,4,7
13. Emergency 2007 Cyclone Recovery and Restoration Project (DOF Part)	1,2,3,4
14. Jatka Conservation, Alternative Employment for the Fishermen and Research Project a. DOF Part b. BFRI Part	1,2,3,4
15. Extension of Fisheries Technology Service at the Union level Project	1,2,4,6,7
16. Aquaculture Development and Management at Bhabodaho in Jesore District Project	1,4,7
17. Strengthening of Fisheries Product Inspection and Quality Control Project	1,8
18. Strengthening Institutional Capacity of the Fisheries Directorate Project	1
19. Developing a National Shrimp Seed Certification Project	1,7,8

<b>Operational Unit/Project/Programme</b>	<b>Related Key Activity</b>
20. National Agriculture Technology Project (Fisheries Directorate section)	1,2,7
Unapproved Projects:	
1. Extension of Aquaculture at the Haor Areas Project	1,2,3
2. Development of Aqua Culture in Greater Faridpur	1-7
3. Integrated Aquaculture Development project in Unused Water Bodies	1-7
4. Aquaculture and Livestock Development Project to Reduce Poverty in North-West Areas a. DOF-Part b. DOL-Part	1,7
5. Selected Degraded Water Bodies Development and Indigenous Fish Conservation Project	1-4
6. Strengthening of Fisheries Resources Survey	1
7. Poverty Reduction and Livelihood Security for the People of the Under Developed Region	1,3,7
8. Hurasagar Aquaculture Management Project	1,3,5,7
9. Aquaculture Development Project in Greater Jessore District	1,4,5,7
10. Aquaculture Development and Management Project	1-3
11. Aquaculture Extension in Cage and Pen	1,4,5,6
12. Release of fish fry in the Open Water Bodies and Creation of Beel Nursery Project	1,2,3,7
13. Greater Rajshahi Aquaculture Development Project	1,2,7
14. Aquaculture Management Project in Flood Land	1-4
15. Registration and Provision of ID card to Fishermen and Disaster Rehabilitation Project	1,2,7
16. To Ensure Quality of Domestic Use and Exportable Fish, Inspection and Strengthening of Quality Control Laboratory	1,2,8,9
17. Procurement of 2 Offshore Petrol Vessel for Coast-Guard	1,8
18. Control of Use of Formalin in Conservation of Fish and Creation of Mass Awareness	1,2,8,9
19. Integrated Protected Area Co-management	1,2,3,4,7
20. Coastal Fisheries Aquaculture and Haor Fisheries Development with Pen and Cage Culture	1,2,3,5
21. Wet Land Biodiversity Rehabilitation Project (GTZ)	1-4
22. Inland Capture Fisheries Development Project	1-7
23. Better Work and Standard Programme (BWST) Project	2,8,9
24. Poverty Reduction and Livelihood Security for People of Monga Rehabilitation Project	1,2,7
25. Reduction Poverty through Aquaculture of Fish in Flood Control, Irrigation Project and other Water Bodies in 29 Districts	1,2,3,4,7

Operational Unit/Project/Programme	Related Key Activity
26. Development of Important Establishments Under Department of Fisheries to Increase Fish Production	1,2
Approved Programmes	
1. Rehabilitation of Coastal Fishermen and Fish Business Affected by Cyclone Ayla Programme	1,2,3,7,8
2. Aquaculture and Aquaculture Management Programme in Haor Area	1,3,7

### 5.3 Directorate of Livestock

**5.3.1 Recent Achievements:** In the last three years, 253.62 lakh doses of livestock and 6919.00 lakh doses of poultry vaccines of 16 different varieties including 6 types of vaccination for new livestock and poultry varieties, were produced. Under the extension programme, 256.20 lakh livestock and 6.506.09 lakh of poultry were vaccinated. 872.12 lakh livestock and poultry were provided treatment services through 481 Upazila animal resources development centres and under the various development programmes, a total of 69.37 lakh doses of liquid and frozen semen were produced and 60.83 lakh of cattle were artificially inseminated. As a result 22% of the existing livestock of the country are identified as hybrid. Regional duck breeding farms including 3 hatcheries were established for the distribution of ducklings at lower cost and 3,072 exhibitions were arranged on livestock nutrition at farm and farmer level.

#### 5.3.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Expansion of veterinary services, ensuring the quality of animal feed and the prevention and increasing the production of vaccines and through spray programme, prevention and control of diseases of poultry	<ul style="list-style-type: none"> <li>• Treatment of 900 lakh livestock and poultry</li> <li>• Develop 98,225 square metres of livestock related infrastructure</li> <li>• Organise 3,072 exhibitions on animal nutrition</li> <li>• Establish 668 fodder nurseries</li> <li>• Vaccinations to 120 crore cattle and poultry</li> <li>• Modernisation of Dhaka and Rangpur Zoos</li> <li>• Completion of demonstration sprays in 50,000 farms</li> </ul>	5
2. Improvement of the farms of livestock and poultry through training and mass awareness	<ul style="list-style-type: none"> <li>• Provide training to 312,488 farmers</li> </ul>	5

Key Activity	Outputs related to the Activity	Related Strategic Objectives
3. Increase productivity in the meat and dairy industries and provide incentives for expansion of these industries	<ul style="list-style-type: none"> <li>• Provide incentive to 12,000 farmers</li> <li>• Establishment of 1 sheep farm</li> <li>• Establishment of 3 buffalo farms</li> </ul>	5
4. Provide assistance to the small farmers to process and market their milk and milk products	<ul style="list-style-type: none"> <li>• Creation of 1,200 CEAL (Community Based Agent of Livestock)</li> </ul>	5
5. Prevention and control of poultry diseases through increased production of vaccines including the prevention and control of avian influenza	<ul style="list-style-type: none"> <li>• Establish 3 fabricated laboratories to prevent avian influenza</li> <li>• Provide training to 47,760 farmers and increase awareness of disease control</li> <li>• Modernize laboratories to produce 66 crore vaccines</li> </ul>	6
6. Provide appropriate technical support services to increase broiler production on a commercial basis	<ul style="list-style-type: none"> <li>• Establish 3 duck and 2 chicken breeding farms</li> <li>• Create 213 CBO (Community Based Organisation)</li> </ul>	6
7. Provide technological support for managing waste in poultry industry and production of bio-gas	<ul style="list-style-type: none"> <li>• Create 1,300 CEWs (Community Extension Workers)</li> </ul>	6
8. Provide extension programme to motivate village people to rear poultry and hygienically market milk and poultry products	<ul style="list-style-type: none"> <li>• Publish 5,09,600 booklets for motivation and technology extension</li> <li>• Implementation of Quarantine Law</li> <li>• Modernization of 10 laboratories</li> <li>• Establishment six quarantine stations</li> <li>• Establish stores in 64 districts</li> </ul>	6

### 5.3.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Vaccine Production	Lakh dose	18.45	39.67	39.67	41.63	43.71	46.76
2. Production of semen	Lakh dose	25.29	19.50	19.50	20.00	21.00	22.47
3. Treatment of livestock and poultry	Number (in lakh)	264	325	325	341	358	383.06
4. Distribution of poultry chicks	Number (in lakh)	28.05	24.75	24.75	27.22	29.94	32.04
5. Training ( Women)	Person	45,000	56,700	56,700	59,535	62,511	66,886

### 5.3.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	8,03,47	7,88,37	8,53,11	9,63,30	10,78,72
Development	141,11,00	103,86,00	172,41,00	168,00,00	75,00,43
Total	149,14,47	111,74,37	180,94,11	177,63,30	85,79,15

### 5.3.5 List of Projects, Programmes and Operational Units

Operational Unit/Project/Programme	Related Key Activity
Operation Unit (Non-development)	
1. Head Quarter	1-8
2. Divisional Offices	
3. District Offices	
4. Upazila Offices	
5. Livestock Treatment, Education and Research	1,5
6. Livestock Hospitals and Medical Centre	1,5
7. Government Dairy Farm	3,4,8
8. Government Poultry Farms	1,2,5,6
9. Animal Survey Office	3
10. Dhaka Zoo	1,5
11. Rangpur Zoo	1,5
Approved Projects	
1. Artificial Insemination Extension and Embryo Transfer Technology Implementation Project	1,2,3
2. Second Participatory Livestock Development Project	1,2
3. Establishment of Upazila Livestock Development Centre (2 <sup>nd</sup> Phase)	1,3,5,6,7,8
4. Animal Nutrition Development and Technology Transfer Project	1
5. Institutional Development and Strengthening of the Directorate of Livestock	1
6. Avian Influenza Preparedness and Response Project	1
7. Development and Conservation of Indigenous Sheep Through Community Based Organisations and Commercial Farms	4
8. Establishment of Jhenaikh Government Veterinary College Project	1
9. Regional Fisheries and Animal Resources Development Project (Noakhali Component)	2,8
10. National Agriculture Technology Project	1
11. Enhancement the Capacity of DLS Project	2

<b>Operational Unit/Project/Programme</b>	<b>Related Key Activity</b>
12. Strengthening the Support Services for Combating Avian Influenza (HPAI) in Bangladesh Project	1,2
13. Modernization of Vaccine Production and Expansion of Laboratory Project	3,4
14. Breed Up-Gradation Through Progeny Test Project (2 <sup>nd</sup> Phase)	3,4
<b>Unapproved Projects</b>	
1. Buffalo Development Project	4
2. Animal Diseases Prevention and Control Project	1,5
3. Effective Support for the Small Milk and Poultry Farmers at 22 Selected Upzila Project	1-8
4. Conservation and Development of Indigenous Chicken Project	1,2,5,6,7,8
5. Integrated Animal Resources Development Project in North-West Areas and Greater Faridpur Districts	1-8
6. Establishment of Regional Duck Breeding Including Hatcheries (3 <sup>rd</sup> Phase)	5,8
7. Establishment of National Livestock Resources Entrepreneur Development Centre and Diseases Identification Laboratories	1,2,5
<b>Probable Projects:</b>	
1. Modernisation of Government Zoos and Strengthening of Management	1
2. Goat Rearing Extension Project	1,3
3. Small Dairy Farm Development Project	1,2,3,4
4. Small Poultry Farm Development Project	1,2,7
5. Modernization of Pig Farm Including 2 Rearing Unit	1
6. Integrated Animal Development Resources Project in Chittagong Hill-Tracts Areas	1,2,3,4,8
<b>Approved Programmes</b>	
1. Provision of Compensation for Slaughter of Poultry to Prevent Spread of Avian Influenza	2,3
2. Beef Breed Development in Bangladesh Programme (1 <sup>st</sup> Phase)	2,3
3. Renovation and Repair of Old/Dilapidated Buildings under DOL	1
4. Union Level Training Programme of Cattle and Poultry	1
5. Diseases Prevention Spray of Cattle and Poultry	1
6. Short Term Based Animal Resources Farmers Assistance Programme on Priority Basis for Farmers Assistance Affected by Ayla Cyclone	1,2
<b>Unapproved Programmes</b>	
1. Strengthening of Government Livestock and Poultry Production	1-8
2. Socio-economic Development Programme for the Male/Female Poor Farmers of Gopalganj through Animal Resources	1,2

Operational Unit/Project/Programme	Related Key Activity
3. Strengthening of Treatment and Arrangement to Increase Health Services in Dhaka Zoo	1
4. Strengthening of on going Programme of Central Cattle Breeding and Dairy Farm of Savar, Dhaka	2,3,4
5. Provision of Incentive Programme for Development of Dairy Farm	3,4

## 5.4. Bangladesh Fisheries Research Institute (BFRI)

**5.4.1 Recent Achievements:** In the last three years, this institute developed three fish varieties namely- thai climbing fish, gugi and nona tengra. In addition to this, Super Tilapia, improved nursery for galda shrimp, aquaculture at hilly Ghona, and fish drying using solar dryer technology were also developed. Four technologies amongst the technologies developed by the institute were transferred to the field level. 1,200 persons were trained through 40 training courses on modern aquaculture developed by the institute, on the production of mono-sex tilapia, fish fry, on shrimp cultivation management, and on conservation of hilsha, etc. 29 scientists/officers participated in different work shop/seminar/fellowship/short term training in different countries during the last three years. At the same time 5 scientists received higher education. Moreover, the establishment of a research sub-station, establishment of a PPR Lab with modern equipment and the modernisation of two research laboratories were completed.

### 5.4.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Development of modern technology for fish and shrimp culture and the development of improved strains of commercially important fish	<ul style="list-style-type: none"> <li>Development of modern technology of fish and shrimp culture, improved variety of red tilapia and breeder variety of indigenous and Thai climbing fish</li> </ul>	7
2. Research on breeding and gene pool conservation of endangered fish species	<ul style="list-style-type: none"> <li>Through breeding of endangered varieties and conservation of gene pool, protection of bio-diversity of indigenous fish</li> </ul>	7
3. Improvement of quality of animal food, development of fodder varieties and conservation and training of the fish culturists through use of bio-technology	<ul style="list-style-type: none"> <li>Development of varieties of Rui fish through bio-technology research</li> <li>Provide training to 100 fish culturists, entrepreneur extension workers about improved technology</li> <li>Provide opportunities to 5 scientists in higher education</li> </ul>	7

Key Activity	Outputs related to the Activity	Related Strategic Objectives
4. Management of inland open water fisheries, coastal and sea fish and development research	<ul style="list-style-type: none"> <li>• Development of open water fish culture management technology</li> <li>• Creation of sanctuaries for conservation Hilsha fish</li> <li>• Preparation of Hilsha fish Management Action plan</li> </ul>	7
5. Development of modern technology for fish and shrimp culture and the development of improved strains of commercially important fish	<ul style="list-style-type: none"> <li>• Develop eco-friendly cultivation technology of shrimp and crab in coastal region</li> </ul>	7

#### 5.4.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Fish culture and management technology development	Number	6	5	5	3	5	5
2. Training	Number	400	500	500	600	700	800

#### 5.4.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	9,00,00	9,55,16	9,69,23	10,67,58	11,62,75
Development	13,24,00	8,01,00	18,76,00	23,00,00	15,00,00
Total	22,24,00	17,56,16	28,45,23	33,67,58	26,62,75

#### 5.4.5 List of Projects, Programmes and Operational Units

Operational Unit/Project/Programme	Related Key Activity
Operational Unit (Non-development) Bangladesh Fisheries Research Institute	1-3
Approved Projects:	
1. Establishment of Shrimp Research Institute at Bagherhat Project	5
Unapproved Projects :	
1. Strengthening of Fisheries Research and Technology Transfer (2 <sup>nd</sup> Phase)	5
2. Modernization and Development of Research Facilities and Infrastructures for Strengthening Research on River Fish	1&5
3. Impact of Aquaculture Drugs and Chemicals on Aquatic Ecology and Productivity	3&4

Operational Unit/Project/Programme	Related Key Activity
Unapproved Programmes:	
1. Infrastructure development of Bangladesh Fisheries Research Institutes' Paikgacha Centre and Research Development Programme	1&5
2. Culture of Valuable Indigenous Fish and Culture and Conservation of Endangered Fish Varieties	2

## 5.5 Bangladesh Livestock Research Institute

**5.5.1 Recent Achievements:** BLRI has developed 6 technologies which are being used by the livestock farmers in different areas of the country during the last 3 years. 25 million cuttings of 3 innovated fodders distributed among the interested farmer in different areas of the country. One international standard, "National Reference Laboratory for Avian Influenza" was established. 15,000 samples were tested last year in this laboratory. Out of these samples, 300 were identified to be affective. BLRI Cattle-1 was developed to increase cattle productivity. 23 cattle-1 varieties were distributed among the farmers. Farmers were assisted through feed analysis of 4,000 samples from Nutrition Laboratory. Leaflets and journals were published to make innovated technologies available to the farmers and extension workers. In addition, 6,000 farmers/extension workers were provided training to extend/transfer innovated technologies among the farmers.

### 5.5.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Research on the variety development of cattle, buffalo, goats, sheep and poultry and transfer of the research findings	<ul style="list-style-type: none"> <li>Development of two breeds of livestock and poultry</li> </ul>	7
2. Development and conservation of animal fodder, improvement of their nutritional value using biotechnology and provide training to the farmers	<ul style="list-style-type: none"> <li>Development of nutrition rich animal food, different vaccines and prevention technology to prevent and control diseases of animal and bird</li> <li>Aware and train the extension workers, farm entrepreneur about research outcome and technology</li> </ul>	7

### 5.5.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Technology innovation through research	Number	-	4	2	3	4	5
2. Training	Number persons	1,790	1,334	1,304	1,605	1,800	2,150

### 5.5.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	7,00,00	6,98,42	6,63,61	7,57,74	8,01,50
Development	5,62,00	18,36,00	15,88,00	21,00,00	10,00,00
Total	12,62,00	25,34,42	22,51,61	28,57,74	18,01,50

### 5.5.5 List of Projects, Programmes and Operational Units

Operational Unit/Project/Programme	Related Key Activities
Operational Unit (Non-development) Bangladesh Livestock Research Institute	1-2
Approved Programmes	
1. Development and Testing of Livestock Technologies for Employment and Poverty Alleviation	1-2
Approved Projects	
1. Red Chittagong Cattle (RCC) Breed Improvement and Conservation Project	1-2
2. Conservation and Improvement of Indigenous Sheep in the Community and Commercial Farming	1-2
3. Development and Testing of Poultry Technology	1-2
Unapproved Projects	
1. Strengthening Research and Development Programme of Regional Stations and on Farm Trial Capability of BLRI	1-2
2. Buffalo Development Project	1-2

## 5.6 Fisheries and Livestock Information Department

**5.6.1 Recent Achievements:** A total of 700,000 copies of poster, leaflet, folder and booklet were printed and distributed free of cost to inspire the people about use of modern technology to rear fish and animal, responsibility to protect Jatka, not to culture pirhana fish, preservation of animal hides following right system during Eidul-Azha and about observation of Fish Week in the last three years. With same purpose, TV spots, Jingle/short stories including 8 TV fillers were produced and arrangements were made for extensive broadcasting in Bangladesh Television, Bangladesh Radio and private television. In addition, advertisements were published in the different National Dailies 243 times to create awareness relating to fish culture, birds and animals. These have played important role in creation of interest, increase of awareness about fish, animal and birds rearing and socio-economic development.

### 5.6.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Motivate village people to rear poultry and carryout publicity activities advising on the healthy marketing of milk and poultry base products	<ul style="list-style-type: none"> <li>• Display of various publicity documents prepared by DF&amp;LI and distribution among the fishermen and animal husbandry free of cost</li> </ul>	6
2. Motivate the people about fish culture and expansion of livestock resources, creation of public awareness and prevention of Jhatka killing	<ul style="list-style-type: none"> <li>• Create awareness about different issues relating to Fisheries and Livestock including prevention of Jhatka killing and socio-economic development of fishermen and people engaged in animal husbandry</li> <li>• Creation of awareness about different issues relating to Fisheries and Livestock and to encourage the fishermen and people engaged in animal husbandry in this work</li> <li>• Socio-economic development of fishermen and people engaged in animal husbandry and increase awareness.</li> </ul>	7

### 5.6.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Poster (fish culture)	Number	50,000	50,000	50,000	60,000	1,00,000	1,00,000
2. Leaflets/folders/ booklets relating to fish	Number	27,000	2,00,00	2,00,000	3,00,000	3,50,000	4,50.00
3. Leaflets/folders/ booklets relating to animal resources	Number	2,00,000	3,50,000	3,50,000	3,00,000	3,50,000	4,50,000
4. TV fillers /spots/ telop relating to fish and animal resources	Number	3	6	6	8	10	12
5. Advertisement in the National Dailies about protection of Jatka	Number	95	100	100	110	120	130
6. Intensive telecast in the television/radio about responsibility to protect Jatka	Number	212	300	300	320	350	360

#### 5.6.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	1,07,00	1,16,02	1,15,90	1,30,00	1,50,00
Development	0	0	0	0	0
Total	1,07,00	1,16,02	1,15,90	1,30,00	1,50,00

#### 5.6.5 List of Projects, Programmes and Operational Units

Operational Unit/Project/Programme	Related Key Activity
Operational Unit (Non-development): Fisheries and Livestock Information Department	1-6

### 5.7 Marine Fisheries Academy

**5.7.1 Recent Achievements:** During last three years, the Marine Fisheries Academy, Chittagong produced 135 trained cadets drawing from 3 divisions of MFA who are capable of operating safely the sea going fishing vessels and commercial vessels capable of carrying exports as well. Many of the cadets working abroad have contributed about 10 million US \$ equivalent remittances to the economy of the country.

#### 5.7.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Training cadets in efficient operating and maintaining mechanised fishing boats and engines	<ul style="list-style-type: none"> <li>60 exportable skilled manpower (Navigators) will be produced</li> <li>140 have been included in training</li> </ul>	4
2. Develop skilled manpower for running seagoing fishing vessels	<ul style="list-style-type: none"> <li>30 exportable skilled manpower (navigators) as Fisheries Technologist and Fish Processing Technologists produced.</li> </ul>	4
3. Trained skilled manpower in extraction, conservation and quality control of marine fisheries	<ul style="list-style-type: none"> <li>100 persons (including women) will be provided training</li> </ul>	4

#### 5.7.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Cadet Training	Person	24	44	48	100	100	200
2. Skill manpower	Person	20	40	40	40	40	40

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
3. Extraction marine fish resources, conservation and quality control and to expand marine culture technology, creation of marine fisheries trained and skilled manpower	Number	8	8	8	8	9	12

#### 5.7.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	1,40,94	1,44,19	2,03,43	2,26,20	2,50,00
Development	5,96,00	2,64,00	3,43,00	8,00,00	17,00,00
Total	7,36,94	4,08,19	5,46,43	10,26,20	19,50,00

#### 5.7.5 List of Projects, Programmes and Operational Unit

Operational Unit/Project/Programme	Related Key Activity
Operational Unit (Non-development):	
Marine Fisheries Academy	1-3
Approved Programmes:	
1. Strengthening of Marine Fisheries Academy (2 <sup>nd</sup> phase)	1-3
UnApproved Projects:	
1. Institutional Development and Strengthening Bangladesh Marine Fisheries Academy.	1-3
2. Simulator based Modern Training Facilities in MFA	1-3
3. Establishment of Fishing Sea men Training Institute	1-3
4. Procurement of Sea survey- cum -Training Ship	1-3

### 5.8 Bangladesh Veterinary Council

**5.8.1 Recent Achievements:** Registration was provided to 572 veterinary practitioners through which the council earned Tk 85,800 revenue during the last three years.

#### 5.8.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Provide registrations to veterinary doctors	<ul style="list-style-type: none"> <li>Provide registration to 250 to 300 veterinary practitioners each year</li> </ul>	7

### 5.8.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Registration of veterinary practitioner	Person	213	300	400	550	600	650

### 5.8.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	22,00	25,66	25,34	25,70	26,30
Development	0	0	0	0	0
Total	22,00	25,66	25,34	25,70	26,30

### 5.8.5 List of Projects, Programmes and Operational Unit

Operational Unit/Project/Programme	Related Key Activity
Operational Unit (Non-development): Bangladesh Veterinary Council	1

## 5.9 Bangladesh Fisheries Development Corporation

**5.9.1 Recent Achievements:** Programme for sale of fish in insulated fish van in Dhaka city has started. Market building in Barisal fish landing station and whole sale market was expanded. As a result, 20 more whole sale fish merchants will be able to land their fishes. Truck parking area, pontoon and gangway were repaired following its severe damage by Sidre and Aila cyclones. Through production of 120 ice can, the ice plant was made operational. Imported 2005.43 kg of shrimp extraction net remained unused for long time.

### 5.9.2 Key Activities, Outputs related to the Activity and related Strategic Objectives

Key Activity	Outputs related to the Activity	Related Strategic Objectives
1. Fish marketing facilities will be provided in Greater Dhaka city	<ul style="list-style-type: none"> <li>Fish marketing facilities will be provided in Dhaka city</li> </ul>	3
2. Increase the production of fish in Kaptai Lake and strengthening conservation and management	<ul style="list-style-type: none"> <li>Release of improved variety of fish in Kaptai lake every year</li> <li>Installation of infrastructural facilities for fish culture, fish landing, preservation and distribution</li> <li>Creation of sanctuaries of fish fry of large fish</li> </ul>	3

Key Activity	Outputs related to the Activity	Related Strategic Objectives
3. Fish landing, production and sale of ice, infrastructure development for fish processing, freezing and repair of vessel at marine workshop	<ul style="list-style-type: none"> <li>Marketing of ice 7produced in BFDC's own plant</li> <li>Processing, freezing and preservation of fishes/shrimp of fish merchant in Chittagong and Cox"s Bazar Processing Factory</li> </ul>	3

### 5.9.3 Output Indicators and Targets

Output Indicators	Unit	Actual 2008-09	Target 2009-10	Revised Target 2009-10	Medium Term Targets		
					2010-11	2011-12	2012-13
1. Development and extraction of sea fish	%	-	-	-	-	-	-
2. Fish marketing and management	%	18	82	25	57	-	-
3. Preservation of fish	%	-	-	-	25	50	25

### 5.9.4 Forward Budget Estimates

(Taka in Thousand)

	Budget 2009-10	Revised 2009-10	Budget 2010-11	Projection 2011-12	Projection 2012-13
Non-development	1,44,17	1,44,17	0	0	0
Development	6,57,00	3,74,00	8,28,00	13,00,00	10,00,00
Total	8,01,17	5,18,17	8,28,00	13,00,00	10,00,00

### 5.9.5 List of Projects, Programmes and Operational Units

Operational Unit/Project/Programme	Related Key Activities
Operational Unit (Non-development) Bangladesh Fisheries Development Corporation	1-3
Approved Projects	
1. Installation of Fish Marketing Facilities in Greater Dhaka City Project	1
2. Construction of Multi-channel Slipway	3
Probable Projects	
1. Procurement of Machineries and Equipment for Strengthening BFDC Programmes	1,3
2. Value Added Fish Product Project	1,3
3. Development of different Infrastructure of BFDC and Strengthening of Management	1-3