

## Grant No. 42

## 47 - Ministry of Water Resources

## Medium Terms Expenditure

(Taka in Thousands)

Description	Budget 2016-17	Projection	
		2017-18	2018-19
Non-Development	954,00,00	1151,67,46	1247,80,35
Development	3759,17,00	4032,81,54	4455,13,65
<b>Total</b>	<b>4713,17,00</b>	<b>5184,49,00</b>	<b>5702,94,00</b>
Revenue	1417,53,50	2825,19,16	3534,31,89
Capital	3295,63,50	2359,29,84	2168,62,11
<b>Total</b>	<b>4713,17,00</b>	<b>5184,49,00</b>	<b>5702,94,00</b>

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

Ensure sustainable development through balanced and integrated management of water resources for the sake of lives and livelihood of the people.

**1.2 Major Functions**

- 1.2.1 Formulate national policy and provide technical assistance for irrigation, flood control, removal of water logging, improvement of drainage systems, protection from river erosion, prevention of salinity and desertification;
- 1.2.2 Execute all activities related to flood forecasting and warning, flood control infrastructures, identification of causes of flood and assessment of the damage done by flood;
- 1.2.3 Conduct basic and applied researches on river basin management and development, flood control infrastructures and conduct hydrological survey for data collection;
- 1.2.4 Mobilize international co-operation for flood control and development of water resources;
- 1.2.5 Excavate/re-excavate and maintain canals excavated under canal excavation program, construct, maintain and operate water control infrastructures;
- 1.2.6 Deal with the issues related to land conservation and reclamation, expansion of drainage system, removal of water logging and development of Haor and Wetlands areas as well;
- 1.2.7 Deal with the issues related to construction of water reservoirs, embankments and barrages;
- 1.2.8 Carry out dredging to enhance the water conservation capacity of the rivers and protection against erosion;

**2.0 Medium Term Strategic Objectives and Activities**

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
1. Ensure balanced, integrated and sustainable management of water resources.	<ul style="list-style-type: none"> <li>• Excavation and re-excavation of Canals</li> <li>• River dredging</li> <li>• Construction and repair of irrigation structure</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Water Development Board (BWDB)</li> </ul>

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
	<ul style="list-style-type: none"> <li>• Construction of Rubber Dams and barrages</li> <li>• Formation and registration of Water Management Group, training and transfer the responsibility of service charge collection to the Group</li> </ul>	
	<ul style="list-style-type: none"> <li>• Conduct feasibility study</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Water Development Board</li> <li>• Department of Bangladesh Haor and Wetlands Development</li> <li>• Water Resources Planning Organization</li> </ul>
	<ul style="list-style-type: none"> <li>• Update the National Water Management Plan</li> <li>• Act as Clearing House</li> <li>• Update national data on water Resources.</li> <li>• Monitoring the programs in Coastal areas.</li> </ul>	<ul style="list-style-type: none"> <li>• Water Resources Planning Organization</li> </ul>
	<ul style="list-style-type: none"> <li>• Collection, analysis and preservation of data and information regarding water resources</li> </ul>	<ul style="list-style-type: none"> <li>• Water Resources Planning Organization</li> <li>• Joint River Commission.</li> </ul>
	<ul style="list-style-type: none"> <li>• Sample test in laboratory</li> </ul>	<ul style="list-style-type: none"> <li>• River Research Institute</li> </ul>
	<ul style="list-style-type: none"> <li>• World Water Day celebration</li> </ul>	<ul style="list-style-type: none"> <li>• Secretariat</li> </ul>
2. Flood control and protection of river bank from erosion	<ul style="list-style-type: none"> <li>• Construction and repair of flood control and coastal embankment</li> <li>• Excavation and re-excavation of drainage canals</li> <li>• Construction, repair and rehabilitation of flood control and drainage infrastructures</li> <li>• Protection of river bank in order to protect important infrastructures and territorial land from erosion of border rivers</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Water Development Board</li> </ul>
3. Development of Haor and Wetlands and water management of Coastal region	<ul style="list-style-type: none"> <li>• Development of Haor and Wetlands</li> </ul>	<ul style="list-style-type: none"> <li>• Department of Bangladesh Haor and Wetland Development</li> </ul>
	<ul style="list-style-type: none"> <li>• Construction of cross dams in the coastal area in order to reclaim land from the sea and river.</li> <li>• Distribution of reclaim land for the development of habitat</li> <li>• Protection of costal wetland and the Sundarban from salinity.</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh Water Development Board</li> </ul>

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
4. River Basin Management	<ul style="list-style-type: none"> <li>Flood forecasting and Warning</li> </ul>	<ul style="list-style-type: none"> <li>Bangladesh Water Development Board</li> </ul>
	<ul style="list-style-type: none"> <li>Conduct study of Physical and mathematical models</li> </ul>	<ul style="list-style-type: none"> <li>River Research Institute</li> </ul>
	<ul style="list-style-type: none"> <li>Arrangement of bi-lateral and multi-lateral meetings</li> <li>Receive data regarding trans boundary rivers.</li> <li>Joint Flow observation.</li> </ul>	<ul style="list-style-type: none"> <li>Joint River Commission</li> </ul>

### 3.0 Poverty and Gender Reporting

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

##### 3.1.1 Ensure balanced, integrated and sustainable management of water resources

**Impact on Poverty Reduction:** Marginal and poor farmers along with other beneficiaries will be able to increase agricultural production by using the irrigation water available due to excavation of 180 km irrigation canals. This will also augment their income. The irrigation facility and excavation/re-excavation of canal will create employment opportunities for the poor. Construction of 345 irrigation structures, repair and rehabilitation of 809 irrigation structures and dredging of 400 km river will also have a positive impact on the marginal farmers along with other beneficiaries. These activities will create employment opportunities for the poor communities. It is expected that the projects which will be implemented during the next 3 years will create about 15.07 crore man-days employment opportunities.

**Impact on Women's Advancement:** Excavation/Re-excavation of canals/river, irrigation programme by Bangladesh Water Development Board will create employment opportunities for 1.50 crore man-days by involving rural women. As a result agriculture production will increase which will in turn, enhance financial and social security of women.

##### 3.1.2 Flood control and River Bank protection

**Impact on Poverty Reduction:** Drainage systems will be improved through construction of 570 km flood control embankment, repair and rehabilitation of 4320 km. of flood control embankment, excavation and re-excavation of 1020 km of drainage canal and construction and repair of 824 flood control structures (sluice/regulator). This will reduce damage to the crops and property of the poor people. The above activities will create employment opportunities for the poor people. In order to protect land from river erosion, 293 km of river bank protection work will be done by involving poor people. These activities will create employment opportunities for them, protect their properties and make a positive impact on poverty reduction.

**Impact on Women's Advancement:** Activities for the development of flood control and drainage systems, construction, repair and rehabilitation of flood control embankments, excavation and re-excavation of drainage canals and flood control structures will protect their property which will ensure their social security. These activities will also create employment opportunities for women.

##### 3.1.3 Development of Haor and wetlands and water management of Coastal region

**Impact on Poverty Reduction:** Reclamation of land from sea by implementation of Nijhum Island and Cross Dam Project in Hatiya Upazila of Noakhali District and the activities to protect wetland and the Sundarban from salinity will create employment opportunities for the poor. Re-claimed land from the sea will be distributed properly among the landless poor. About 20,000 families will be rehabilitated with 1.50 acres of reclaimed land each through implementation of CDSP-4 project. Besides, poor men and women will be able to protect their lives and property during cyclone by taking shelter in the cyclone shelters in the

coastal areas. With the implementation of the projects, land will be protected from salinity. This will increase the fertility of the coastal land and make a positive impact on poverty alleviation. Participation of rural marginal farmers in the Water Resources Management Groups and in other related common resources will be ensured. Involvement of the water management groups in the planning, implementation and management activities of water management development project will be ensured, and management responsibilities will be transferred to the groups after one year of completion of the project. The responsibility of collecting service charge of the Teesta Project given to the rural-end farmers along with the W.M.O. They will be imparted training on water management. As result, opportunity for income generation will be created from them. Poor people will be benefitted from the implementation of "Landless Contracting Society (LCS) Policy" adopted by the Water Development Board in earth work for implementation of the project.

**Impact on Women's Advancement:** Involvement of women in water management and training in water resource management will be ensured. As per guidelines of water management, 33% of total members of water management group must be women. This will promote women's, empowerment and augment their income. 25% of the earth-work of BWDB's project will be executed by women under LCS which will enhance their financial solvency. In FY 2015-16, ownership of 45% to 50% of khas land reclaimed in different irrigation projects will be distributed through associated implementing agencies. Social security of the destitute women will be ensured by such distribution of reclaimed land in coastal area. The houses being constructed in the island and wetland area will also be distributed among the destitute women. Their involvement in "protection of river banks from erosion" projects will be increased. All these activities will create positive impact on women development. Gender issues will be resolved by implementing ongoing projects which have been started for improvement of the livelihood of the people of haor area. Women's participation in economic and social activities in development of haor and wetland area will also enhance their development.

#### 3.1.4 River Basin Management

**Impact on Poverty Reduction:** If the availability of water is increased by water basin management, the poor farmers will be able to increase their productivity by using increased irrigation facility. As a result, their income will be augmented and it will make a positive impact on poverty reduction.

**Impact on Women's Advancement:** There is no direct impact.

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

(Taka in Thousands)

Particulars	Budget 2016-17	Projection	
		2017-18	2018-19
Poverty Reduction	3194,98,57	2670,53,71	2363,23,24
Gender	2167,73,21	1674,83,05	1475,69,19

#### 4.1 Priority Spending Areas/Program

Priority Spending Areas/Program	Related Strategic Objectives
<p>1. <b>Excavation/Re-excavation of canals, construction and maintenance of infrastructures to provide irrigation facilities to arable land:</b> Although rivers and canals are the main sources of water for irrigation, they are gradually being silted up. In this situation, necessity of the excavation and re-excavation of the rivers and canals has become in dispensable. Accordingly, excavation and re-excavation of rivers and canals, construction and maintenance of the infrastructures have been given the highest priority.</p>	<ul style="list-style-type: none"> <li>• Ensure balanced, integrated and sustainable management of water resources.</li> </ul>
<p>2. <b>Undertaking repair, modification, re-construction and development of existing embankment, infrastructures; construction and maintenance of new embankments, and forestation in coastal areas:</b></p>	<ul style="list-style-type: none"> <li>• Flood control and protection of town from erosion</li> </ul>

Priority Spending Areas/Program	Related Strategic Objectives
For protection of human lives, forests, fisheries, animals and valuable resources from natural calamities such as storms, floods, deluges, high tides etc., re-construction, repair and modification of existing coastal embankments, construction of new embankment and forestation program in the coastal areas have been accorded 2 <sup>nd</sup> priority.	
<p><b>3. Construction and maintenance of flood control embankments to protect economically important areas, towns and establishments, human life, property and agricultural crops:</b></p> <p>Due to river erosion, the existence of many important cities e.g Chandpur, Sirajganj of the country is at stake. This has been causing a heavy economic loss to the country. In order to protect the country from this loss, Ministry of Water Resources has taken the responsibility for protection of economically important area, cities/towns and establishments, life and property of people, crop and agricultural land etc. To ensure normal life and sustainable economic development in the flood affected areas, construction and maintenance of flood control embankment have been given 3<sup>rd</sup> priority.</p>	<ul style="list-style-type: none"> <li>Haor and Wetland Development and Coastal area water management.</li> </ul>
<p><b>4. Conducting studies to prepare water resources planning/Master plan:</b></p> <p>The availability of reliable water resources data is essential to prepare, implement and manage different development activities in connection with flood control, drainage systems and construction of embankments. To ensure availability of necessary data, surveys are carried out on various aspects of water resources. For this reason, the above programs have been given 4<sup>th</sup> priority.</p>	<ul style="list-style-type: none"> <li>Study Programme</li> </ul>
<p><b>5. Reclaiming the fair share of the water of border and common rivers:</b></p> <p>Establishment of the rights of fair share of water of border and common rivers entails bi-lateral and multilateral programs to collect data and conduct research on climate change, alignment of rivers, floods and draughts. This program, therefore have been given 5<sup>th</sup> priority.</p>	<ul style="list-style-type: none"> <li>River Basin Management</li> </ul>

## 4.2 Medium Term Expenditure Estimates and Projection (2016-17 to 2018-19)

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

(Taka in Thousands)

Description	Budget	Revised	Budget 2016-17	Projection	
	2015-16			2017-18	2018-19
Bangladesh Water Development Board	3758,72,23	3750,46,00	4562,17,08	3754,28,33	3625,07,06
Bangladesh Haor and Marsh Development Board	1,17,46	0	0	0	0
Joint River Commission	6,50,50	5,91,00	6,78,67	7,46,53	8,21,19
WARPO	7,96,85	8,13,06	10,73,31	10,62,35	10,97,44
River Research Institute	8,88,00	10,71,32	12,43,00	12,93,57	13,48,65
Secretariat	102,68,96	13,39,81	68,52,63	1394,22,94	2040,05,71
International Organisations	6,00	6,00	6,00	6,10	6,50
Department of Bangladesh Haor and Jolabhumi Development	0	2,91,10	52,46,31	4,89,18	5,07,45
<b>Grand Total :</b>	<b>3886,00,00</b>	<b>3791,58,29</b>	<b>4713,17,00</b>	<b>5184,49,00</b>	<b>5702,94,00</b>

#### 4.2.2 Expenditure by Economic Group Wise

(Taka in Thousands)

Economic Group	Description	Budget	Revised	Budget 2016-17	Projection	
		2015-16			2017-18	2018-19
	<b>Revenue Expenditure</b>					
4500	Pay of Officers	1,60,00	3,18,00	3,52,27	4,17,72	4,69,68
4600	Pay of Establishment	41,50	1,14,50	99,37	1,08,97	1,20,48
4700	Allowances	17,49,00	2,65,39	2,75,21	3,10,95	3,41,31
4800	Supplies and Services	279,47,23	266,66,26	441,60,83	297,57,74	273,51,60
4900	Repairs and Maintenance	7,00	12,29,60	25,16,85	7,37,91	1,40,05
5900	Grants in Aid	813,38,04	915,23,38	933,78,06	1127,16,88	1220,65,55
6100	Contributions to International Organisation	6,00	6,00	6,00	6,10	6,50
6300	Pensions and Gratuities	5,22,23	6,44,73	9,64,91	9,96,35	11,33,07
6600	Block Allocations	0	0	0	1374,66,54	2018,03,65
	<b>Total : - Revenue Expenditure</b>	<b>1117,71,00</b>	<b>1207,67,86</b>	<b>1417,53,50</b>	<b>2825,19,16</b>	<b>3534,31,89</b>
	<b>Capital Expenditure</b>					
6800	Acquisition of Assets	23,00	226,89,80	253,77,50	154,09,66	204,14,61
6900	Acquisition / Purchase of Land & Landed Properties	0	36,53,00	132,50,00	47,90,00	42,00,00
7000	Construction and Works	2767,96,00	2320,37,63	2908,26,00	2155,19,00	1920,35,00
7400	Advances to Government Employees	10,00	10,00	10,00	11,18	12,50
7980	Capital Block Allocation & Misc. Capital Expen.	0	0	1,00,00	2,00,00	2,00,00
	<b>Total : - Capital Expenditure</b>	<b>2768,29,00</b>	<b>2583,90,43</b>	<b>3295,63,50</b>	<b>2359,29,84</b>	<b>2168,62,11</b>
	<b>Grand Total :</b>	<b>3886,00,00</b>	<b>3791,58,29</b>	<b>4713,17,00</b>	<b>5184,49,00</b>	<b>5702,94,00</b>

#### 5.0 Key Performance Indicator (KPIs)

Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
			2014-15		2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8	9	10
1. Coverage of flood free and drainage areas (Flood free and drainage areas 10.47110 lakh hectare)	1	Percentage	79.70	79.40	80.75	80.70	80.94	81.80	82.25
2. Coverage of flood free zone and drainage improvement areas (Flood free and drainage areas 110 lakh hectare)	2	Percentage	55.50	55.43	56.01	55.95	56.81	57.21	58.00
a. Coverage of flood free area in haor (12.00 lakh hectare)	3	Percentage	10.22	10.20	10.25	10.20	10.45	11.00	11.25
b. Coverage of flood free zone in other areas (106 hectare)	2		45.30	45.63	45.76	45.75	46.36	46.21	46.75
3. Coverage of Salinity control areas (26.37 lakh hectare of salinity controllable areas)	3	Percentage	50.10	50.01	50.82	50.80	51.20	51.80	52.10
4. Protection of important establishments	2	Number	25	20	38	35	33	35	36

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

##### 6.1 Secretariat

**6.1.1 Recent Achievements:** As initiated by the United Nations, Ministry of Water Resources is celebrating World Water Day every year on March 22 since 1993. To share information regarding water flow among

the member countries and face present and future challenges are the main objectives of this day which has been successfully observed by the ministry.

### 6.1.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15		2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8	9	10	11
1. World Water Day	day	1	year	1	1	1	1	1	1	1

### 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 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4701-0001 - Secretariat		8,24,07	10,55,96	13,39,81	18,14,63	19,56,40	22,02,06
4706-4353 - ICID		2,50	2,50	2,50	2,75	2,80	3,00
4706-4355 - INWARDAM		3,50	3,50	3,50	3,25	3,30	3,50
<b>Total : Operational Units</b>		<b>8,30,07</b>	<b>10,61,96</b>	<b>13,45,81</b>	<b>18,20,63</b>	<b>19,62,50</b>	<b>22,08,56</b>
<b>Total : Non Development</b>		<b>8,30,07</b>	<b>10,61,96</b>	<b>13,45,81</b>	<b>18,20,63</b>	<b>19,62,50</b>	<b>22,08,56</b>
<b>Approved Projects</b>							
4701-5010 - Block allocation for unapproved projects.		0	92,13,00	0	50,38,00	1374,66,54	2018,03,65
<b>Total : Approved Projects</b>		<b>0</b>	<b>92,13,00</b>	<b>0</b>	<b>50,38,00</b>	<b>1374,66,54</b>	<b>2018,03,65</b>
<b>Total : Development</b>		<b>0</b>	<b>92,13,00</b>	<b>0</b>	<b>50,38,00</b>	<b>1374,66,54</b>	<b>2018,03,65</b>
<b>Total :</b>		<b>8,30,07</b>	<b>102,74,96</b>	<b>13,45,81</b>	<b>68,58,63</b>	<b>1394,29,04</b>	<b>2040,12,21</b>

## 6.2 Bangladesh Water Development Board

**6.2.1 Recent Achievements:** With the aim of attaining food self-sufficiency different programs for construction of flood control embankment, excavation and re excavation of drainage canal, construction of necessary infrastructure and irrigation facilities have been implemented. As a result, 8.31 lakh hectares of total 10.47 lakh hectares arable land have been brought under irrigation coverage in FY 2014-15. During the same period, out of 110 lakh hectare, 60.97 lack hectare lands have been made flood-free. Due to construction of new embankments, repair and maintenance of existing ones and forestation programs, out of a total of 26.37lakh hectare land under salinity threat in the southern coastal areas, 13.19 lakh hectares was protected from risk of salinity intrusion in 2014-15. The causes of river bank erosion, siltation on river bed and water logging can be attributed to the climate change. To resolve these problems, a 15 year project called "Capital Dredging and River Management" has been undertaken. Till to date, 280.00 km. river bed of different rivers has been dredged. Under climate change trust fund, 23 projects have been implemented with a cost of Taka 2397.96 lakh while the implementations of another 79 projects are under implementations with cost of Tk. 70958.57 lakh. 16 Sq. km. land reclaimed after Construction of 4 Nos. of Cross bar's in the the river Jamuna which creates opportunities to increase the production of grains. Under digital Bangladesh programme of present government all tenders below 50 crore of BWDB is floated under e-gp and the process is continuing.

### 6.2.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15		2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8	9	10	11
1. Excavation and re-excavation of irrigation canal	Excavated canals	1	KM	160	52	150	59	59	61	60
	Re-excavated canal			86	29	120	112	113	117	120
2. River dredging	River dredging	1	KM	183	97	140	140	151	156	150

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15	2015-16	2016-17	2017-18	2018-19		
1	2	3	4	5	6	7	8	9	10	11
3. Construction and repair of irrigation structures	Constructed structures	1	Number	25	25	31	98	113	117	115
	Repaired structures			80	80	52	355	362	373	400
4. Construction of Rubber Dams and Barrages	Constructed Barrages and Rubber Dams	1	Number	-	1	1	1	1	1	1
5. Formation and registration of Water Management Group, arrange training for them and transfer the responsibility of collection service charge to the Group	Formed Group	1	Number (thousand)	9.87	9.87	7.65	5.57	5.68	5.85	5.90
	Trained people			78	78	70	1440	1500	1520	1550
	Transferred responsibility			200	150	315	300	250	260	280
6. Conduct feasibility study	Completion of survey	1	Number	2	2	2	2	4	6	5
7. Construction and repair of flood control and coastal embankment	Constructed embankment	2	KM	104	93	150	74	82	84	86
	Repaired embankment		KM (thousand)	1.25	0.500	1.30	0.482	0.518	0.533	0.540
8. Excavation and re-excavation of drainage canals	Excavated and re-excavated of drainage canals	2	KM	290	254	300	625	629	648	650
9. Construction, repair and rehabilitation of flood control and drainage infrastructures	Constructed and repaired infrastructures	2	Number	427	197	525	239	263	271	290
10. Protection of river bank in order to protect important infrastructures and save territorial land from erosion of border rivers	Protected of river bank	2	KM	174	69	280	75	96	99	98
11. Construction of cross dams in the coastal area in order to reclaim land from the sea and rivers	Constructed cross dams	3	Number	4	1	3	2	3	4	2
	Reclaimed land		Acre	50	50	30	30	40	60	50
12. Distribution of reclaim land for the development of habitat	Development of habitat	3	Number	6000	4668	4000	4000	4000	5000	3000
13. Protection of costal wetland and the Sundarban from the salinity	Reduction of salinity	3	PPT	20	20	20	20	20	20	20
14. Flood Forecasting and Warning	Forecasting and Warning	4	Number	180	170	180	180	180	360	360

### 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 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16	2016-17	2017-18	2018-19	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4705-3281 - Bangladesh Water Development Board	1-14	747,86,99	790,05,23	891,55,00	905,23,08	1097,13,33	1188,97,06
<b>Total : Operational Units</b>		<b>747,86,99</b>	<b>790,05,23</b>	<b>891,55,00</b>	<b>905,23,08</b>	<b>1097,13,33</b>	<b>1188,97,06</b>
<b>Total : Non Development</b>		<b>747,86,99</b>	<b>790,05,23</b>	<b>891,55,00</b>	<b>905,23,08</b>	<b>1097,13,33</b>	<b>1188,97,06</b>
<b>Approved Projects</b>							
4705-5000 - Rehabilitation of Polder No. 36/1 in Bagerhat District. (01/12/2014-30/06/2019)	9-10	0	0	1,00,00	30,00,00	50,00,00	20,00,00
4705-5001 - Protection of Embankment of Polder No. 56/57 from erosion of the Meghna river at Daulatkhan & Borhanuddin Upazila in Bhola District.(01/01/2016-30/06/2020) Approved	9-10	0	0	5,00,00	40,00,00	40,00,00	25,00,00



Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8
4705-5002 - Protective work of left bank of Padma River from Aworangabad to Braha Bazar under Dohar Upazila of Dhaka District (01-01-2015-30/06/2018) Approved	9-10	0	0	1,00,00	50,00,00	50,00,00	50,00,00
4705-5003 - Bank Protective work against Erosion of the Meghna river at rajapur and east ilisha union of Bhola sadar upazilla in bhola district.	9	0	0	0	25,00,00	50,00,00	40,00,00
4705-5004 - Strengthening Hydrological Information Services and Early Warning Systems (Component: B) (01/01/2016-30/06/2017)	14	0	0	0	6,68,00	0	0
4705-5005 - Rehabilitation of Kashimpur Pump House under Manu River Irrigation Project (01/05/2016-30/06/2018)	1	0	0	0	5,00,00	50,60,00	30,60,00
4705-5006 - River Bank Protection work for protection of Tajumuddin upazilla sadar in Bhola District from erosion of the Meghna river (01/07/2016-30/06/2019)	9	0	0	0	10,00,00	35,00,00	50,00,00
4705-5007 - Strengthening of Dumping Zone of Protective work of Jamalpur town protection project in Jamalpur sadar upazilla of Jamalpur District (01/02/2016-30/06/2018)	9-10	0	0	0	2,00,00	19,05,00	0
4705-5016 - Rehabilitation of G.K. Irrigation Project	1-2	32,00,00	40,00,00	53,00,00	35,00,00	0	0
4705-5046 - Construction of "Pani Bhaban".	5	20,00,00	29,91,00	29,91,00	50,00,00	50,00,00	0
4705-5092 - River Bank Protection of Jamuna River in Bogura District (01/01/12 - 30/06/16)	9	43,42,00	50,00,00	127,02,00	0	0	0
4705-5108 - Integrated Water Management For Poldar 34/2 of Bagerhat District. (01/07/2012-30/06/2015)	1-4	25,00,00	30,00,00	30,00,00	0	0	0
4705-5109 - Protection of Alatuli Area of Chepai Nababgonj District From Padma River Erosion (01/09/2012-30/06/2015)	9	20,17,00	45,00,00	65,12,00	110,00,00	0	0
4705-5110 - Protection of Sonahat Bridge and Bhurungamari-Madarganj Road from the Erosion of Dudhkumar River at Bhurungamri Upazila & Bank Revetment work at left bank of Tista River from Gunaigach to Bazras Senior Madrasa at Ulipur Upazila in Kurigram District(01/07/2012 - 30/06/2015)	9	5,58,78	15,00,00	5,00,00	20,07,00	0	0
4705-5111 - Protection Of Bhola City Project (3rd Phase) (01/07/2012-30/06/2014)	9	50,00,16	18,00,00	20,00,00	0	0	0
4705-5113 - Protection of Left bank of Padma River from Komorpur of Irshardi Upazila of Pabna District to Sara Jhaudia and Tilacpur-Garipur of Nator District Project (01/07/2012-30/06/2017)	9	25,00,00	40,00,00	55,00,00	95,00,00	40,00,00	50,00,00
4705-5114 - Protection of Boiragihat and Chilmari Port of Chilmari and Ulipur Upazila of Kurigram District from the Erosion of Bhramaputra River (2nd phase) (01/11/2012-30/06/2016)	9	32,56,00	45,00,00	50,00,00	66,00,00	40,00,00	20,00,00
4705-5119 - Bank protection work along the left and right Bank at Different of Karnofuli river, Boalkhali and Raikhali khal in Chittagong District	10	25,00,00	32,00,00	25,00,00	17,46,00	10,00,00	0
4705-5120 - Bank River Bank protection of Vulnerable Part at Ialmohan Upazila Under Bhola District	10	22,00,00	30,00,00	30,00,00	45,00,00	30,00,00	20,00,00
4705-5121 - Protection of both Bank of Barni river at kaliganj Sarkutia and kaliganj Shadonpur in Natore District	10	10,00,00	7,00,00	5,71,00	0	0	0
4705-5122 - Rehabilitation of Bhutiar Beel and Bamal-Salimpur-Kolabashukhali Flood Control and Drainage Project Khulna District (Phase-II)	9	34,85,00	40,00,00	44,30,00	62,00,00	15,50,00	25,50,00
4705-5123 - Blue Gold Program	7	56,40,43	109,47,00	84,86,00	77,21,00	100,00,00	110,00,00
4705-5124 - Coastal Embankment Improvement Project Phase-1	7	20,00,00	250,00,00	150,00,00	450,00,00	250,00,00	400,00,00
4705-5128 - *Environmental Impact Assessment (EIA) Study of 30 different BWDB Projects to be implemented under Climate Change Trust Fund (CCTF) (01/10/12 - 31/12/15)	13	25,00	1,00,00	60,00	0	0	0
4705-5129 - Bhairah River Re-Excavation Project	2	5,29,25	34,98,00	34,98,00	27,60,00	0	0
4705-5130 - Flood and Riverbank Erosion Risk Management Investment Program (Tranche-1)	7-11	22,36,72	229,64,00	210,83,00	260,40,00	100,00,00	50,00,00

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8
4705-5131 - Irrigation Management Improvement Project (IMIP) (For Muhuri Irrigation Project)	1-2	9,24,28	45,00,00	52,89,00	92,44,00	90,00,00	85,00,00
4705-5132 - West Gopalganj Integrated Water Management Project	1-13	10,00,00	48,00,00	57,00,00	40,00,00	90,00,00	85,00,00
4705-5133 - Protection of Ramgati and Komol Nagar upazila and adjacent areas under Lakshmpur district from the continuing erosion of Meghna River (Phase-1)	10	60,00,00	128,00,00	55,73,00	60,68,00	40,00,00	20,00,00
4705-5134 - Bank Protection of Jamuneswary, Chikny and Charalkata river in Kishorganj, Taraganj and Badarganj Upazila.	10	0	25,00,00	25,00,00	50,00,00	0	0
4705-5135 - Haor Flood and Livelihood Improvement Project (BWDB Part)	1-13	14,99,68	29,00,00	27,55,00	162,00,00	75,00,00	65,00,00
4705-5136 - Protection of Left Bank of Meghna River through Bank Revetment Work at Maniknagar of Nabinagar Upazila in Brahmanbaria District.	10	0	0	5,00,00	15,00,00	25,00,00	0
4705-5137 - Rehabilitation of Damaged Polders under the District of Cox's Bazar.	9-10	0	0	8,00,00	49,57,00	75,00,00	100,00,00
4705-5138 - Rehabilitation of BWDB infrastructures Damaged by Natural Disaster in the Coastal Area of Polder No. 64/1A/64/1B & 64/1C at Banskhalia Upazilla in Chit	9-10	0	0	2,00,00	60,00,00	50,00,00	100,00,00
4705-5139 - River Bank Protection work on the both banks of Shangu & Chandkhali river in Chandanaish and Satkania Upazilas of Chittagong District	10	0	0	8,00,00	50,00,00	50,00,00	40,00,00
4705-5140 - Protection of the Kutihbari and adjacent areas of Great Poet Robindronath Tagore along the right Bank of Padma River.	10	0	0	3,00,00	50,00,00	50,00,00	90,00,00
4705-5141 - Development of Smart Project Monitoring and Management Information Systems (SPMMIS)	1-13	0	0	20,00	1,76,00	1,00,00	0
4705-5144 - Protection work along the right Bank of Padma River at Philipnagar, Abed's ghat and Islampur are of Daulatpur Upazilla under the District Kushtia	10	0	0	30,00,00	50,00,00	25,00,00	15,00,00
4705-5145 - Shibpur Flood Control, Drainage and Irrigation Project under Shibpur Upazila in Narsingdi District.	10	0	0	2,00,00	15,00,00	10,00,00	0
4705-5146 - Re-excavation of Titas River (Upper) Under Brahmanbaria District	1	0	0	1,00,00	15,00,00	50,00,00	50,00,00
4705-5147 - Re-excavation of Curzon khal and its adjacent branch khal for irrigation and drainage improvement Project in the district Comilla.	1	0	0	50,00	8,25,00	6,00,00	0
4705-5148 - Construction of Retired Embankment including Protection of Right Bank of the Jamuna River from Kurnibari to Chandanbaisha at Sariakandi Upazila in Bogra.	10	0	0	14,06,00	47,84,00	80,00,00	120,00,00
4705-5149 - Protection of the Rajshahi Cadet College and adjacent important establishment from the erosion of the Padma River	10	0	0	5,00,00	50,00,00	25,00,00	0
4705-5150 - Maliara-Bakhhine-Vandergaon Flood Control Drainage and Irrigation Project (2nd Phase) in Upazila-Patiya, District- Chittagong.	1-5	0	0	4,50,00	15,00,00	5,00,00	0
4705-5151 - Southwest Area Integrated Water Resources Planning & Management Project – 2nd Phase	1-14	0	0	2,80,00	35,35,00	80,00,00	100,00,00
4705-6000 - *Protection of left bank of the Jumuna river Bahadurabad Ghat to Pingna Bazar and Islampur Upazilla, Harindora in Hargilla under Jamalpur District (01/04/10 - 30/06/13) Approved	9	73,00,00	115,00,00	135,00,00	95,00,00	0	0
4705-6010 - Buriganga River Restoration project (01/04/10 - 31/12/13) Approved	5	23,00,00	30,00,00	25,00,00	30,00,00	50,00,00	100,00,00
4705-6020 - * Capital (Pilot) Dredging of River System in Bangladesh (01/03/10 - 30/06/14) Approved	5	123,84,04	88,00,00	70,78,00	95,00,00	50,00,00	0
4705-7115 - Removal of water logging of kobadak river basin	9	55,00,00	61,35,00	54,00,00	91,83,00	0	0
4705-7118 - Naogaoan twon protection Project	9	17,00,00	20,00,00	26,37,00	0	0	0

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8
4705-7170 - * Upper Surma-Kusharia Flood Control and drainage project (1st Revised) (01/07/01 - 30/06/12) Approved	7	15,00,00	14,00,00	19,00,00	0	0	0
4705-8050 - Emergency Cyclone Recovery and Rehabilitation Project (SIDR(01/08/08 - 31/12/2017) Approved	6	169,21,91	267,66,00	200,00,00	145,80,00	50,00,00	50,00,00
4705-8110 - Removal of Drainage congestion at Bhavodaha and adjacent heel Area in Jessore District (01/07/06-30/06/12) Approved	8	2,00	6,00,00	1,00	0	0	0
4705-8150 - Gorai River Restoration Project (2nd phase).	9	46,59,00	60,00,00	30,00,00	40,00,00	60,00,00	0
4705-8180 - Charfession and Monpura town protection project in Bhola district.	9	50,00,00	45,00,00	35,00,00	30,00,00	0	0
4705-8200 - Re-excavation of Connecting Rivers, development of Irrigation Facilities and Fish Culture project of Gazner Beel area under Sujaganar Upazila in Pabna district.	1,8	12,00,00	40,00,00	82,00,00	60,00,00	60,00,00	25,00,00
4705-8250 - * Protection of right bank Jamuna river at Sirajganj sadar and Kazipur upazila in Sirajganj District. (01/10/2010-30/06/2017)	9	79,99,15	70,00,00	120,00,00	80,00,00	0	0
4705-8260 - Purchase of Dredgers and Ancilliary accessories for dredging Rivers of Bangladesh (01/07/2010-31/12/2016)	5	160,00,00	230,20,00	217,65,00	250,00,00	150,00,00	200,00,00
4705-8310 - Char Development and Settlement Project-4	10	35,60,30	55,44,00	39,61,00	80,00,00	80,00,00	0
4705-8636 - Water Management and Improvement Project (WMIP) (1/7/2004-30/6/2016) Approved	4	104,80,36	60,00,00	48,00,00	30,00,00	0	0
4705-9120 - New Dakatia & Old Dakatia Little Feni River Drainage Project Part of South Comilla and North Noyakhali Comprehensive Project (01/07/03 - 30/06/17) Approved	7,8	62,00,00	80,00,00	100,00,00	30,00,00	20,00,00	0
4705-9160 - Teesta Barrage Project (2nd Phase)(1st Unit) (2nd Revised) (01/07/06 - 30/06/2015) Revised Unapproved	3	45,00,00	40,00,00	38,00,00	13,00,00	5,00,00	0
4705-9220 - Fesibility Study And Detailed Design of Ganjes Barrage Project (01/07/04 - 30/06/15) Approved	11	2,86,96	0	2,59,00	0	0	0
4705-9324 - Kalni-Kushiyara River Management Project (01/04/11-30/06/16) approved	5,6,11	30,00,00	80,00,00	30,00,00	40,00,00	100,00,00	120,00,00
4705-9460 - Protection of Saghata bazar and adjacent area from the erosion of Jamuna river in upazilla saghata, district Gaibandha.(01/10/2010-30/06/2015) approved	9	40,00,00	55,00,00	50,00,00	0	0	0
4705-9498 - Tarail Panchuria Integrated Water Management project (01/03/2010-30/06/15) approved	4	40,58,00	40,00,00	37,00,00	45,00,00	25,00,00	30,00,00
4705-9501 - Construction of additional pump station at Goran-Chatbari (01/04/10 - 30/06/15)	8	23,85,73	2,00	1,00	0	0	0
4705-9533 - Protection of Shahbazpur Gas field from the erosion of Meghna river under Bhola district.(01/03/10 - 30/06/15) approved	9	20,00,00	24,00,00	20,00,00	9,00,00	0	0
4705-9545 - FCDI Project along Jamuna river at Antarpara, dist. Bogra (01/11/10 - 30/06/15) approved	11	33,50,00	8,00,00	5,58,00	0	0	0
4705-9548 - River bank protection work along River Padma at Sujaganar in Pabna distirct and at Raghunatpur ghat D/S. under Bera Upazilla (01/01/11-30/06/2016) approved	9	20,00,00	40,00,00	60,00,00	50,00,00	0	0
4705-9552 - Re-excavation of Bemalia, Longon and Balvadra river in Nasirnagar Upazilla at district Brahmanbaria (01/11/10 - 30/06/15) approved	1	15,00,00	27,00,00	10,75,00	10,00,00	0	0
4705-9589 - Pre-Monsoon Flood Protection and Drainage Improvement in Haor Areas	8	28,00,00	90,00,00	70,00,00	80,00,00	250,00,00	150,00,00
<b>Total : Approved Projects</b>		<b>1870,01,75</b>	<b>2968,67,00</b>	<b>2858,91,00</b>	<b>3656,94,00</b>	<b>2657,15,00</b>	<b>2436,10,00</b>
<b>Total : Development</b>		<b>1870,01,75</b>	<b>2968,67,00</b>	<b>2858,91,00</b>	<b>3656,94,00</b>	<b>2657,15,00</b>	<b>2436,10,00</b>
<b>Total :</b>		<b>2617,88,74</b>	<b>3758,72,23</b>	<b>3750,46,00</b>	<b>4562,17,08</b>	<b>3754,28,33</b>	<b>3625,07,06</b>

### 6.3 River Research Institute

**6.3.1 Recent Achievements:** In the last 3 years (2012-13, 2013-14 & 2014-15) 8 Physical model studies and 5 mathematical model studies have been conducted and reports have been submitted to the client. Total 18250 Nos. of Soil, Concrete, sediment & chemical samples have been tested. Besides, a study named "Investigation of the sustainability and effectiveness of the material used in the launching apron in order to protect the river bank" has been going on along with some other studies on river pollution around Dhaka and find out the ways to reduce pollution.

#### 6.3.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15	2015-16	2016-17	2017-18	2018-19		
1	2	3	4	5	6	7	8	9	10	11
1. Sample tests in Laboratory	Sample test	1	Number	9.50	5225	9.50	9.50	6000	6500	7000
2. Conduct study of physical and mathematical models	Model study	4	Number	5	3	6	11	8	10	12

#### 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 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16	2016-17	2017-18	2018-19	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4705-3289 - River Research Institute	1-2	8,40,00	8,88,00	10,71,32	12,43,00	12,93,57	13,48,65
<b>Total : Operational Units</b>		<b>8,40,00</b>	<b>8,88,00</b>	<b>10,71,32</b>	<b>12,43,00</b>	<b>12,93,57</b>	<b>13,48,65</b>
<b>Total : Non Development</b>		<b>8,40,00</b>	<b>8,88,00</b>	<b>10,71,32</b>	<b>12,43,00</b>	<b>12,93,57</b>	<b>13,48,65</b>
<b>Total :</b>		<b>8,40,00</b>	<b>8,88,00</b>	<b>10,71,32</b>	<b>12,43,00</b>	<b>12,93,57</b>	<b>13,48,65</b>

### 6.4 Water Resources Planning Organization

**6.4.1 Recent Achievements:** Bangladesh Water Act-2013 has been enacted in the year 2013. During the period of 2009-2015, the additional 145 data layers were added to the existing no. of 406 of National Water Resources database (NWRD). Likewise, additional 130 layers have been included to the Integrated Coastal Resources Database (ICRD) of 421 layers. As described in the National Water Policy (NWPO), WARPO has been performing "Clearing House" activities to examine the project of Bangladesh Water Development Board (BWDB) in the light of National Water Management Plan (NWMP) on experimental basis. Under Clearing House function, WARPO has already made comments on the 180 DPP of BWDB and provided clearance certificate. Moreover, comments and clearance were made to the 8 small scale projects of Local Government Division (LGD). Assessing the condition of surface water (SW) and ground water (GW) is also going on..

#### 6.4.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15	2015-16	2016-17	2017-18	2018-19		
1	2	3	4	5	6	7	8	9	10	11
1. Conduct feasibility Study	Report	1	Number	3	2	3	3	4	1	4
2. Update the National Water Management Plan	Updated Planning	1	Number	4	4	4	4	4	1	2
3. Act as clearing House	Review of projects	1	Number	35	10	35	35	35	35	35
4. To update national data on water resources	Increase data layer	1	Number	50	30	50	50	50	50	50
	Collected Data			50	20	50	25	50	50	50

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15	2015-16	2016-17	2017-18	2018-19		
1	2	3	4	5	6	7	8	9	10	11
5. Monitoring the programmes in coastal areas	PIP implementation monitoring	3	Number	1	1	1	1	2	2	2
	Development planning report of 19 districts			1	1	1	1	1	1	1
6. Collection analysis and preservation of data regarding water resources	Preserved data	1	Number	1	1	1	1	1	1	1

#### 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 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16	2016-17	2017-18	2018-19	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4705-3287 - WARPO	1-4	10,16,94	6,76,85	7,06,06	9,33,31	9,62,35	9,97,44
<b>Total : Operational Units</b>		<b>10,16,94</b>	<b>6,76,85</b>	<b>7,06,06</b>	<b>9,33,31</b>	<b>9,62,35</b>	<b>9,97,44</b>
<b>Total : Non Development</b>		<b>10,16,94</b>	<b>6,76,85</b>	<b>7,06,06</b>	<b>9,33,31</b>	<b>9,62,35</b>	<b>9,97,44</b>
<b>Approved Projects</b>							
4705-5127 - Institutionalization of integrated Water Resources Management (IWRM) Process in Compliance with Bangladesh Water Act-2013	1-4	30,59	1,20,00	1,07,00	1,40,00	1,00,00	1,00,00
<b>Total : Approved Projects</b>		<b>30,59</b>	<b>1,20,00</b>	<b>1,07,00</b>	<b>1,40,00</b>	<b>1,00,00</b>	<b>1,00,00</b>
<b>Total : Development</b>		<b>30,59</b>	<b>1,20,00</b>	<b>1,07,00</b>	<b>1,40,00</b>	<b>1,00,00</b>	<b>1,00,00</b>
<b>Total</b>		<b>10,47,53</b>	<b>7,96,85</b>	<b>8,13,06</b>	<b>10,73,31</b>	<b>10,62,35</b>	<b>10,97,44</b>

#### 6.5 Bangladesh Haor and Wetlands Development Board

**6.5.1 Recent Achievements:** 20 years long Haor Development Master Plan has been formulated to improving the life standard of 20 million peoples of the north eastern seven districts of Bangladesh at the cost of 79.360 million taka. Aquaculture of indigenous fish species by excavation of 3.2 million cubic meter earth, increase production of rice cultivation by irrigation and plantation to conserve environment has been done under the Borni Baor Development project. Along with that study projects on classification of wetlands and hydro-morphology of haor's rivers also carried out to enrich integrated wetland database.

#### 6.5.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15	2015-16	2016-17	2017-18	2018-19		
1	2	3	4	5	6	7	8	9	10	11
1. Feasibility Study	Study	1	Number	-	1	1	1	1	1	1
2. Development of Haor & Wetlands	Development	3		25	20	30	30	2	20	20

#### 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 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16	2016-17	2017-18	2018-19	
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4705-3282 - Bangladesh Haor and Marsh Development Board	1-2	1,94,36	1,17,46	0	0	0	0
4731-0001 - Department of Bangladesh Haor and Jolabumi Development		0	0	1,56,10	2,01,31	4,89,18	5,07,45
<b>Total : Operational Units</b>		<b>1,94,36</b>	<b>1,17,46</b>	<b>1,56,10</b>	<b>2,01,31</b>	<b>4,89,18</b>	<b>5,07,45</b>
<b>Total : Non Development</b>		<b>1,94,36</b>	<b>1,17,46</b>	<b>1,56,10</b>	<b>2,01,31</b>	<b>4,89,18</b>	<b>5,07,45</b>

Name of the Operational Unit/Programme/ Project	Related Activity	Actual 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8
<b>Approved Projects</b>							
4731-5000 - Study for Investigation and Expansion of Ground Water Irrigation in Habiganj, Maulvibazar, Sylhet, Sunamganj, Netrokona and Kishorganj Districts.	1-2	0	0	0	10,00,00	0	0
4731-5001 - Impact Assessment of Structural Interventions on Haor and Innovation for Solution	1-2	0	0	0	3,02,00	0	0
4731-5002 - Study of Inraction bet Haor and River Ecosystem including Development of Wetland Inuantity and Wetland Management Framework	1-2	0	0	0	35,00,00	0	0
4731-5142 - Classification pf Wetlands of Bangladesh(01/07/2015-30/06/2017)	1-2	0	0	70,00	1,14,00	0	0
4731-5143 - Model Validation on Hydro-Morphological Process of the River system in the Subsiding Sylhet Haor Basin.	1-2	0	0	65,00	1,29,00	0	0
<b>Total : Approved Projects</b>		<b>0</b>	<b>0</b>	<b>1,35,00</b>	<b>50,45,00</b>	<b>0</b>	<b>0</b>
<b>Total : Development</b>		<b>0</b>	<b>0</b>	<b>1,35,00</b>	<b>50,45,00</b>	<b>0</b>	<b>0</b>
<b>Total :</b>		<b>1,94,36</b>	<b>1,17,46</b>	<b>2,91,10</b>	<b>52,46,31</b>	<b>4,89,18</b>	<b>5,07,45</b>

## 6.6 Joint River Commission

**6.6.1 Recent Achievements:** Initiatives have been taken for international cooperation to improve the quality of people through sharing and management of 54 trans-boundary rivers between India and Bangladesh. The framework of interim agreements for sharing the waters of the Teesta and the Feni rivers have been finalized. Bangladesh and India share the Ganga/Ganges waters at Farakka, India during 01 January to 31 May every year. During the last three years 16 meetings were held between Bangladesh and India at different levels. Besides Joint Working Group on sub-regional cooperation with Bhutan, India and Bangladesh held one meeting. Bangladesh is conducting a joint study on Impact Assessment of the proposed Tipaimukh Hydro-electric (Multi-purpose) project of India and preparation of position papers including database of trans-boundary rivers. In this regard discussions are being continued. India assured that India would not take any step that would adversely affect Bangladesh. Bangladesh is being able to provide 120 hours lead time flood forecasting using the flood related data provided by India, Nepal and China. River bank protection works of border rivers along the border areas are being implemented since 2009-10 that had been stopped for long. As a consequence, valuable lands, BOPs, and important installations can be protected.

### 6.6.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2014-15	2015-16	2016-17	2017-18	2018-19		
1	2	3	4	5	6	7	8	9	10	11
1. Collection analysis and preservation of data regarding water resources	Prepare river based position papers of trans-boundary rivers	1	Number	2	2	2	1	1	1	1
2. Arrangement of bi-lateral and multi-lateral meetings	Holding meeting on Joint River Commission and different committees	4	Number	7	4	10	4	5	5	7
	Holding meeting on Nepal- Bangladesh joint expert committee			1	0	2	0	1	1	1
	Holding meeting on China - Bangladesh joint research-oriented and technical committee			2	1	1	1	1	1	1
3. Received data regarding trans-boundary rivers	Receiving of flood related data from India, Nepal and China	4	Number	7	7	7	7	7	7	7
4. Joint observation of flow	Observation and sharing of Ganges waters at Farakka as per Treaty	4	Number	1	1	1	1	1	1	1

### 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 2014-15	Budget	Revised	Medium Term Expenditure Estimates		
			2015-16		2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8
<b>Operational Units</b>							
4705-3283 - Joint River Commission	1-2	4,77,50	6,50,50	5,91,00	6,78,67	7,46,53	8,21,19
<b>Total : Operational Units</b>		<b>4,77,50</b>	<b>6,50,50</b>	<b>5,91,00</b>	<b>6,78,67</b>	<b>7,46,53</b>	<b>8,21,19</b>
<b>Total : Non Development</b>		<b>4,77,50</b>	<b>6,50,50</b>	<b>5,91,00</b>	<b>6,78,67</b>	<b>7,46,53</b>	<b>8,21,19</b>
<b>Total :</b>		<b>4,77,50</b>	<b>6,50,50</b>	<b>5,91,00</b>	<b>6,78,67</b>	<b>7,46,53</b>	<b>8,21,19</b>