

Grant No. 23

26 - Ministry of Science and & Technology

Medium Term Expenditure

(Taka in Thousand)

Description	Budget 2017-18	Projection	
		2018-19	2019-20
Non-Development	436,03,00	479,63,00	527,60,00
Development	10602,10,00	11662,31,00	12828,54,00
Total	11038,13,00	12141,94,00	13356,14,00
Revenue	1300,79,00	1704,28,90	1222,25,39
Capital	9737,34,00	10437,65,10	12133,88,61
Total	11038,13,00	12141,94,00	13356,14,00

1.0 Mission Statement and Major Functions

1.1 Mission Statement

Support attainment of overall socio-economic development of the country through research, development, dissemination, extension and successful utilization of science and technology.

1.2 Major Functions

- 1.2.1 To review the existing policies of science and technology in line with the national goals and strategies and formulate new policies;
- 1.2.2 Co-ordinate with different ministries for the implementation of National Science and Technology Policy;
- 1.2.3 Implementation of the recommendations of the National Council for Science and Technology (NCST);
- 1.2.4 Providing overall assistance to agencies/institutions in the science and technology sector; undertaking research and development activities;
- 1.2.5 Create Liaisons with different international organizations relating to science and technology and also implementing agreements and assistance programmes in relevant sectors;
- 1.2.6 Take proper initiatives to integrate Bangladesh with international arena in the matter of on-going development activities related to science and technology sector;
- 1.2.7 Activities relating to nuclear safety and control of radioactivity as well as establishment of nuclear power plant and peaceful use of nuclear power;
- 1.2.8 Promote, Publish, extend and popularize science & technology related initiatives and organizing National Science and Technology Week in order to enhance the awareness to students;
- 1.2.9 Research activities on marine science

2.0 Medium Term Strategic Objectives and Activities

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
1. Providing assistance for research work related to	<ul style="list-style-type: none"> • Provide fellowships and opportunity for higher study and research to researchers 	<ul style="list-style-type: none"> • Secretariat • BCSIR

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
science & Technology	<ul style="list-style-type: none"> • Provide grants to the researchers, concerned organizations and non-government scientific organizations and societies for scientific research 	<ul style="list-style-type: none"> • Secretariat
	<ul style="list-style-type: none"> • Conduct training on science and technology 	<ul style="list-style-type: none"> • Bangladesh Atomic Energy Commission • BCSIR • National Institute of Biotechnology • BANSDOC • National Science and Technology Museum • Bangabandhu Sheikh Mujibur Rahman Novo Theatre • Bangladesh Atomic Energy Regulatory Authority
	<ul style="list-style-type: none"> • Participation on the training program organized by IAEA/RCA/FNCA/ANSN to implement agreement on regional cooperation 	<ul style="list-style-type: none"> • Bangladesh Atomic Energy Regulatory Authority
2. Popularizing of Science & Technology	<ul style="list-style-type: none"> • To arrange Seminar and workshop for Science affairs 	<ul style="list-style-type: none"> • Bangladesh Atomic Energy Commission • National Institute of Biotechnology • BANSDOC • Bangladesh Atomic Energy Regulatory Authority
	<ul style="list-style-type: none"> • Establish of Science Club at Upazila level 	<ul style="list-style-type: none"> • National Science and Technology Museum
	<ul style="list-style-type: none"> • Arrange science fairs/exhibitions/Olympiad at district and national level with permanent science exhibitions 	
	<ul style="list-style-type: none"> • Collection, preservation and dissemination of scientific information. • To teach science and astronomy (affairs) through entertainment by the exhibition of digital films and different exhibits. 	<ul style="list-style-type: none"> • BANSDOC • Bangabandhu Sheikh Mujibur Rahman Novotheatre
3. Ensure safe and peaceful use of nuclear energy	<ul style="list-style-type: none"> • Radio isotope related Health services 	<ul style="list-style-type: none"> • Bangladesh Atomic Energy Commission
	<ul style="list-style-type: none"> • Supply of Amnion membrane and Bone grafts 	

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
	<ul style="list-style-type: none"> • Radioactivity measurement of Radiation of worker and imported & exported food items • Irradiation of food items • Irradiation of Medical items • Analysis of Blood/air/water samples etc. • Authorization for operation of nuclear and radiation facilities • Authorization for import and export of nuclear and radioactive materials/radiation generators • Certification of Radiation Control Officers • Regulatory inspection of nuclear and radiation facilities • Regulatory document preparation and technical document evaluation 	<ul style="list-style-type: none"> • Bangladesh Atomic Energy Regulatory Authority
4. Environment friendly and sustainable technology innovation for socio-economic development	<ul style="list-style-type: none"> • Conduct research on non-conventional and renewable energy and transfer of innovated technology. • Conduct research and apply technologies innovated through this research to ensure, preserve quality of food and public health. • Facilitate innovation of technology for using domestic raw materials for industrialization. • Provide technological service in trade, industrialization and economic development by examining and creating research facilities to calibrate and ensure the quality of local product and export-import goods. • Publish basic and applied research work and papers to provide main technological service in trade, industrialization and economic development by creating research facilities. • Inform the research result to stakeholders • Development of Rice bio-fertilizer • Production of Aloe Vera seedling through Tissue culture and development of cultivation method using biotechnology 	<ul style="list-style-type: none"> • BCSIR • Bangladesh Atomic Energy Commission • National Institute of Biotechnology • National Science and Technology Museum • National Institute of Biotechnology

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
	<ul style="list-style-type: none"> DNA sequencing service Production of Taq DNA polymerase enzyme Detection of microsatellite marker of Hilsa for determination genetic variants Production of eco-friendly microbial enzymes for textile and leather processing 	
5. Development of infrastructure for expansion of science and technology	<ul style="list-style-type: none"> Completion of preliminary works done for Rooppur Nuclear Power Plant 	<ul style="list-style-type: none"> Bangladesh Atomic Energy Commission
	<ul style="list-style-type: none"> Establishment of RTML in Mongla port. 	
	<ul style="list-style-type: none"> Development of physical infrastructure in the project of science and technology complex 	<ul style="list-style-type: none"> National Science and Technology Museum

3.0 Poverty and Gender Reporting

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

3.1.1 Providing assistance for research work related to science and technology

Impact on Poverty Reduction: No direct impact. However, the standard of living is improved by utilizing the biogas and improved cook stove technologies save fuel consumptions. Moreover, cultivation of orchid, neem and other medicinal plants through tissue culture is economically profitable and reducing poverty and also improving living standards.

Impact on Women's Advancement: No direct impact. However, due to the use of improved stove, more energy is saved and the smoke is not spread out, this technology is useful for the protection of rural women. Women have to spend plenty of time and labor to collect fuel, using improved stoves and biogas technology; both time and labor of women are being saved.

3.1.2 Popularising of science and technology

Impact on Poverty Reduction: Poor people will be trained and motivated to get involved in science education and modern technology by organising Science Olympiads, Documentaries on science, exhibitions, etc.

Impact on Women's Advancement: By arranging Science Fair, digital Film Show and different types of Exhibition are encouraging towards women for their mental involvement in Science.

3.1.3 Ensure safe and peaceful use of nuclear energy

Impact on Poverty Reduction: Through generation of electricity from the nuclear source, continuing the activities of fertilizer production, irrigation etc., it would be possible to reduce poverty by increasing agricultural production and other non-agricultural output. It would be possible to protect people from the harmful effects of the imported food radioactivity tests and various initiatives to control nuclear radiation inside the country. Support is being provided to poor people in providing better quality of Nuclear Medicine and health care and determining the quality of food. Receiving services at the nearest and relatively close locations will reduce the relative costs of medical care. Medical services for poor people will also be available and accessible by inventing new drug processing methods from domestic herbs.

Impact on Women's Advancement: There is an indirect impact on women. It is possible to provide medical services specially diagnosis of critical diseases of women through using of radio-active isotope.

3.1.4 Environment friendly and sustainable technology innovation for socio-economic development

Impact on Poverty Reduction: By developing Technology and innovation of unused, semi-used wealth, it will be possible to optimum use of solar energy, Bio-gas etc. sector. As a result poor people will be highly benefited by the ensuring probable optimum use and they will increase their income and improve their lifestyle.

Impact on Women's Advancement: Conducting research on safe and pollution free (arsenic free) drinking and useable water in the household level, usually working area of women, would be possible to contribute in the women demand. Working our will be reduced by the use of appropriate technology. Women participation, social respect, empowerment of women will be increased through the transfer of knowledge in the grass root level.

3.1.5 Development of infrastructure for expansion of science and technology

Impact on Poverty Reduction: Jobs and enhanced income opportunities will be created for poor people in the infrastructure development work.

Impact on Women's Advancement: The involvement of women in infrastructure development activities will generate direct employment for them.

3.2 Poverty Reduction and Women's Advancement Related Spending

(Taka in Thousand)

Particulars	Budget 2017-18	Projection	
		2018-19	2019-20
Poverty Reduction	10383,94,75	11064,35,66	12921,86,53
Gender	4198,21,81	4470,98,59	5166,53,53

4.1 Priority Spending Areas/Programmes

Priority Spending Areas/Programmes	Related Medium Term Strategic Objectives
<p>1. Expand peaceful use of nuclear energy</p> <p>The provision of nuclear technology-based medical treatment facilities at different parts of the country contributes significantly towards the protection of health of the people in Bangladesh. Further, nuclear power is considered a cost effective option than any hydrocarbon-based power and this sector is given top priority.</p>	<ul style="list-style-type: none"> Ensure safe and peaceful use of nuclear energy
<p>2. Research and development on sustainable environment friendly technology suitable for the poor</p> <p>It is necessary to create mass awareness for the environmental friendly new high yielding varieties through application of genetic engineering for increased production in agriculture and non-agriculture sector, as well as for use of non-conventional energy for energy savings and of biotechnology. In addition, this sector has been given priority considering the need for research and development for a food processing system that produces food items free of poisonous/harmful materials, pure drinking water, water purification filters and development of balanced and nutritious food varieties.</p>	<ul style="list-style-type: none"> Invention of environment-friendly and sustainable technology for socio-economic development
<p>3. Expansion of research in the area of scientific technology</p> <p>Grants have been provided to the different universities and science, technology related institutions from the research allocation for ministry, and its attached departments as well as their different</p>	<ul style="list-style-type: none"> Providing assistance for research work related to science & technology

Priority Spending Areas/Programmes	Related Medium Term Strategic Objectives
projects/programmes for work on science in this country and for encourage and inspire people.	
4. Construction of Rooppur nuclear power plant infrastructure: To add approximately 2400 MW of electricity to the national grid by 2023-24, Rooppur nuclear power plant has been given priority in the development of appropriate infrastructure.	<ul style="list-style-type: none"> Development of infrastructure for expansion of science and technology

4.2 Medium Term Expenditure Estimates and Projection (2015-16 to 2017-18)

4.2.1 Expenditure by Department/Agencies/Operational Units

(Taka in thousand)

Description	Budget	Revised	Budget 2017-18	Projection	
	2016-17			2018-19	2019-20
Secretariat	852,87,11	60,78,83	164,67,81	800,54,45	158,46,19
Autonomous Bodies & Other Institutions	3,16,40	3,16,40	0	0	0
International Organisations	30,00	30,00	31,00	34,10	37,51
Bangladesh Atomic Energy Commission	895,24,00	3933,05,47	10552,39,00	11132,94,85	12983,92,18
BCSIR	144,01,00	149,51,00	165,32,00	158,71,16	159,08,12
Bangladesh Atomic Energy Regulatory Authority	2,25,00	2,25,00	2,40,00	2,54,00	2,79,40
BANSDOC	4,80,00	4,80,00	4,95,00	5,44,50	5,98,98
National Science & Technology Museum	129,77,00	48,75,84	108,74,00	8,95,37	9,84,99
National Science & Technology Council	4,00,00	0	0	0	0
Research Grants	80,00	0	0	0	0
National Institute of Biotechnology	5,45,49	6,53,86	7,50,00	8,24,97	9,07,53
Bangabandu Sheikh Mujibur Rahman Novo Theatre	3,70,00	4,52,00	14,90,00	5,57,00	6,09,12
Bangladesh Oceanographic Research Institute	0	0	4,94,19	5,43,61	5,97,97
Other Associations	50,00	0	0	0	0
National Fellowship Programme	10,00,00	0	0	0	0
Bangabandhu Science and Engineering Fellowship Trust	0	0	12,00,00	13,19,99	14,52,01
Science & Technology Programme	12,85,00	0	0	0	0
Grand Total :	2069,71,00	4213,68,40	11038,13,00	12141,94,00	13356,14,00

4.2.2 Expenditure by Economic Group Wise

(Taka in thousand)

Economic Group	Description	Budget	Revised	Budget 2017-18	Projection	
		2016-17			2018-19	2019-20
	Revenue Expenditure					
4500	Pay of Officers	4,47,79	13,79,39	4,75,32	14,05,23	14,94,85
4600	Pay of Establishment	2,10,62	7,37,91	1,83,74	6,93,27	7,19,41
4700	Allowances	4,98,29	12,80,95	4,25,61	13,18,25	13,87,30
4800	Supplies and Services	379,40,52	62,74,97	763,63,96	248,45,50	365,59,65
4900	Repairs and Maintenance	4,69,79	13,90,41	1,25,18	8,42,12	8,21,34
5900	Grants in Aid	354,05,49	382,58,17	424,75,19	467,22,43	513,95,33
6100	Contributions to International Organisation	30,00	30,00	31,00	34,10	37,51
6300	Pensions and Gratuities	4,43,00	0	0	0	0
6600	Block Allocations	0	0	99,99,00	935,58,00	288,00,00
6700	Revenue - General	0	10,10,00	0	10,10,00	10,10,00
	Total : - Revenue Expenditure	754,45,50	503,61,80	1300,79,00	1704,28,90	1222,25,39
	Capital Expenditure					
6800	Acquisition of Assets	104,60,17	114,14,15	73,84,78	151,94,28	88,36,31
6900	Acquisition/Purchase of Land & Landed Properties	0	83,34	1,50,00	16,00,00	0
7000	Construction and Works	1146,51,53	263,58,35	2109,64,72	941,50,00	1090,00,00
7400	Advances to Government Employees	10,10	11,20	11,00	12,10	13,30

Economic Group	Description	Budget	Revised	Budget	Projection	
		2016-17		2017-18	2018-19	2019-20
7900	Development Import Duty and VAT	57,14,90	52,26,50	7,93,50	22,80,82	20,00,00
7980	Capital Block Allocation & Misc. Capital Expen.	6,88,80	3279,13,06	7544,30,00	9305,27,90	10935,39,00
	Total : - Capital Expenditure	1315,25,50	3710,06,60	9737,34,00	10437,65,10	12133,88,61
	Grand Total :	2069,71,00	4213,68,40	11038,13,00	12141,94,00	13356,14,00

5.0 Key Performance Indicator (KPIs)

Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
			2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10
1. Provided Fellowship	1	No.	1450	1488	1465	1500	1550	1600	1650
2. Beneficiaries of Received Research Grant	1	No.	415	459	430	430	500	525	550
3 Trained Manpower	1	No.	18	1451	22	1217	1250	1300	1350
4. Arranged Seminar and Workshop	2	No.	50	192	55	87	90	95	100
5. Radioactivity measurement of Radiation worker and importead & exported food items	3	No.	15600	15600	16200	15700	15800	15900	16000
6. Radio isotop related Health services	3	No.	362000	362000	372000	365000	367000	370000	372000
7. Completion of Preliminary works done for RNPP.	5	%	35	35	8.7	8.7	0	0	0

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

6.1 Secretariat

6.1.1 Recent Achievements: The Bangabandhu Scientific and Technology Fellowship Trust Act-2016 have been enacted. During last three years Tk.33.98 crore for the 1022 projects under science and technology programme, Tk. 22.42 crore for 3877 persons under science and technology fellowship, Tk. 1.35 crore for 219 persons under Research Grant, Tk. 1.05 crore for other societies /institutions and science club and Tk. 0.55 crore among 100 private secondary and higher secondary educational institutions were allocated as financial assistance. Last three years, TK. 42.32 crore as fellowship has been allocated among 394 fellows under the Bangabandhu Fellowship.

6.1.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Provide fellowships and opportunity for higher study and research to researchers	Fellowship	1	Person	1438	1438	1450	1450	1500	1550	1600
			TK. (core)	8.42	8.42	10.00	10.00	15.00	15.75	16.55
2. Provide grants to researchers, concerned organizations and non-government scientific organizations and societies for science related research	Grant for research project	1	No.	440	459	450	430	500	525	550
	Grant for other societies and institutions		No.	70	70	80	80	180	190	200
	Grant for Educational Institute and Science Club		Tk. (Lac)	25.00	25.00	50.00	50.00	250.00	280.00	315.00

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

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
			4	5	6	7	8
1	2	3	4	5	6	7	8
Operational Units							
2601-0001 - Secretariat	1-2	11,41,70	14,86,11	10,52,83	10,96,81	12,06,47	13,27,16
2601-3043 - National Science & Technology Council	2	0	0	4,00,00	6,00,00	6,60,00	7,26,01
2601-3045 - Research Grants	2	0	0	80,00	1,50,00	1,65,00	1,81,50
2601-3299 - Other Associations	2	0	0	50,00	1,50,00	1,65,00	1,81,50
2601-3965 - National Fellowship Programme	1	0	0	10,00,00	15,00,00	16,49,99	18,15,01
2601-3993 - Science Technology Programme	2	0	0	12,85,00	15,00,00	16,49,99	18,15,01
2605-3050 - Bangladesh Oceanographic Research Institute	1-2	0	0	0	4,94,19	5,43,61	5,97,97
2605-3970 - Bangabandhu Science and Engineering Fellowship Trust	1	0	0	0	12,00,00	13,19,99	14,52,01
2606-4203 - Commonwealth Science Fund	1-2	0	10,00	10,00	9,00	9,90	10,89
2606-4205 - Asia and Pacific Centre for Transfer of Technology	1-2	0	5,00	5,00	6,00	6,60	7,26
2606-4208 - International Center for Genetic Engineering and Bio-technology	1-2	3,93	5,00	5,00	6,00	6,60	7,26
2606-4210 - Organization of Islamic Conference Standing Committee on Scientific and Technological Cooperation (COMSTech)	1-2	0	10,00	10,00	10,00	11,00	12,10
Total : Operational Units		11,45,63	15,16,11	38,97,83	67,22,00	73,94,15	81,33,68
Total : Non Development		11,45,63	15,16,11	38,97,83	67,22,00	73,94,15	81,33,68
Approved Projects							
2601-5014 - Study Project for Establishment of Marine Aquarium at Bangladesh Oceanographic Research Institute, Cox's Bazar.	1-2	6,82	1,65,00	1,88,00	0	0	0
2601-5190 - Establishment of National Oceanographic Research Institutuen (1st Phase) (01/07/2000-30/06/16) Approved	3	12,39,71	16,00,00	14,41,00	9,00,00	0	0
2601-5520 - Block allocation for unapproved projects.	1-2	0	808,72,00	0	99,99,00	745,58,00	98,00,00
2601-5538 - Bangobandhu Fellowship on Science & ICT (01/07/2010 - 31/12/2016)	1	12,02,64	11,64,00	5,82,00	5,72,00	0	0
Total : Approved Projects		24,49,17	838,01,00	22,11,00	114,71,00	745,58,00	98,00,00
Total : Development		24,49,17	838,01,00	22,11,00	114,71,00	745,58,00	98,00,00
Total :		35,94,80	853,17,11	61,08,83	181,93,00	819,52,15	179,33,68

6.2 Bangladesh Atomic Energy Commission

6.2.1 Recent Achievements: Preparatory work for the construction of Rooppur Nuclear Power Plant (RNPP) first phase will be completed by October 2017 according to the work plan to supply around 2400 MW electricity to the national grid by the next 2023-2024 year. For the detection of cancer a very high-tech instrument called PET-CT and many other modern diagnostic equipment have been installed in NINMAS to modernize its existing facilities in the year 2015-16. To expand the Radiation Testing and Monitoring works with other research activities, a center has been established in Mongla port. To create expert medical physicist and technologist for treating the cancer patients, a Nuclear Medical Physics Institute has been established in Atomic Energy Research Establishment, Savar.

6.2.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
				5	6	7	8	9	10	11
1	2	3	4	5	6	7	8	9	10	11
1. Provide Scientific & Technological Training	Trained Manpower	1	No	235	382	242	242	242	245	248

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
2. Arrange scientific & Technological Seminar/Workshop	Arranged seminar & workshop	2	No	12	171	50	50	55	60	65
3. Radio isotop related Health services	Service recipients	3	No	362000	387549	365000	365000	367000	370000	373000
4. Supply of Amnion membrane and Bone grafts	Supplied amnion graft	3	No	15000	25465	5700	5700	5800	5900	6000
	Supplied bone graft					15500	15500	15600	15700	15800
5. Radioactivity measurement of Radiation worker and imported & exported food items	Service delivery	3	No	7000	7302	15700	15700	15800	15900	16000
6. Irradiation of food items	Irridation food item	3	No	200	201.45	180	180	185	190	195
7. Irradiation of Medical items	Irridation medical Items	3	Quantity (ton)	11000	5443	4000	4000	4500	5000	5500
8. Analysis of Blood/air/water samples etc.	Various analytical sample/materials	3	Quantity (cft)	10500	13571	10600	10600	10600	16700	10800
9. Inform the research result to stakeholders	Articles published in scientific journals and books	4	No	160	170	165	165	170	175	180
	Arranged seminar & workshop	4	No	-	-	4	4	4	4	4
10. Completion of Preliminary works done for RNPP.	Physical infrastructure (cumulative)	5	%	35	35	8.7	8.7	-	-	-
11. Establishment of RTML in Mongla port.	Physical infrastructure	5	%	-	-	90	90	10	-	-

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

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
Operational Units							
2605-3031 - Bangladesh Atomic Energy Commission	1-7	172,41,96	181,00,00	207,10,47	208,00,00	229,33,85	253,38,18
Total : Operational Units		172,41,96	181,00,00	207,10,47	208,00,00	229,33,85	253,38,18
Approved Programmes							
2696-4973 - Expansion of Tissue Banking & Biomaterial Research Unit.	3	6,36,55	3,16,40	3,16,40	0	0	0
Total : Approved Programmes		6,36,55	3,16,40	3,16,40	0	0	0
Total : Non Development		178,78,51	184,16,40	210,26,87	208,00,00	229,33,85	253,38,18
Approved Projects							
2605-5000 - Modernization of Food and Radiation Biology Facilities of AERE, Savar	6	0	0	7,95,00	21,86,00	17,86,00	0
2605-5002 - Construction of Rooppur Nuclear Power Plant (Main Phase)	10	0	0	3407,71,00	10186,75,00	10863,61,00	12730,54,00
2605-5003 - Capacity Buildup of Nano-biotechnological Laboratory at Material Science Division, Atomic Energy Centre Dhaka	7	0	0	1,54,00	24,61,00	22,14,00	0
2605-5072 - Establishment of Radioactivity Testing and Monitoring Laboratory at Mongla, Khulna (01/07/2012-30/06/2016) Approved	4	7,55,00	1,95,00	2,48,00	0	0	0
2605-5096 - Construction of Ruppur Nuclear Power Plant (1st Phase)	10	595,43,00	618,00,00	218,65,00	88,48,00	0	0

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
2605-5099 - Establishment of Institute of Nuclear Medical Physics (01/09/2013 – 30/06/2017) Approved	5	15,04,00	45,46,00	40,77,00	4,69,00	0	0
2605-5112 - Upgrading and Strengthening the Facilities of National Institute of Nuclear Medicine and Allied Sciences (01/01/15 - 30/06/17) Approved	5	10,99,00	13,41,00	11,43,00	0	0	0
2605-7500 - Establishment of PET CITY with CYLLOTION Facilities (01/01/11-30/09/15)	1-5	51,00,00	35,42,00	35,42,00	18,00,00	0	0
Total : Approved Projects		680,01,00	714,24,00	3725,95,00	10344,39,00	10903,61,00	12730,54,00
Total : Development		680,01,00	714,24,00	3725,95,00	10344,39,00	10903,61,00	12730,54,00
Total :		858,79,51	898,40,40	3936,21,87	10552,39,00	11132,94,85	12983,92,18

6.3 Bangladesh Council for Scientific Industrial Research (BCSIR)

6.3.1 Recent Achievements: During the last 03 (three) years BCSIR has earned following credits in its account: successful completion of R&D projects 200 and executed 07 (seven) annual development projects (ADP); fellowship offered 150; thesis supervised 350; and research publication 283. At this time, analytical services of 14,544 samples were provided to different entrepreneurs/ industries, organizations dealing with export-import business, various public/private organizations and individuals during this period. In addition to these BCSIR has achieved ISO/IEC 17025 accreditation for the analysis of 34 water quality parameters; Development of new technology 51; Patent registered 25; Technology transferred to entrepreneurs 66. On the other hand, during this span BCSIR has established 01 (one) new laboratory while 04 (four) existing laboratories were renovated.

6.3.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Conduct research on non-conventional and renewable energy and transfer of innovated technology.	Published research articles in the local and international journal	4	No.	20	20	20	20	21	22	25
	New technologies invention		No.	2	-	3	2	4	5	7
	Patent submitted/ accepted		No.	1	2	1	1	1	1	3
	Commercialised		No.	1	1	1	1	1	1	3
2. Conduct research and apply technologies innovated through this research to ensure, preserve quality of food and public health.	Published articles in the local and international journal	4	No.	30	30	30	30	31	33	35
	New technologies discovered		No.	2	4	3	3	4	5	6
	Patent submitted/ accepted		No.	1	-	1	1	1	1	1
	Commercialized		No.	1	3	1	4	5	5	6
3. Facilitate innovation of technology for using domestic raw materials for industrialization.	Published articles in the local and international journal	4	No.	45	53	45	45	48	55	56
	New technologies invented		No.	6	14	6	8	8	9	10
	Patent submitted/ accepted		No.	3	10	3	7	8	9	10

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
	Commercialized		No.	4	17	4	10	12	14	15
	Arrange meetings / seminars to disseminate appropriate technology in District or thana level.		No.	21	21	22	22	22	24	25
	Number of science fair held in various centers.		No.	4	4	4	4	4	4	4
	Number of participating school/colleges in the fair.		No.	140	201	145	145	150	155	160
	Number of participate in the fair with Invented technology.		No.	450	666	480	480	480	500	520
4. Provide technological service in trade, industrialization and economic development by examining and creating research facilities to calibrate and ensure the quality of local product and export-import goods.	Analysis of industrial/ commercial products/ Material analysis/service provided.	4	No. (Thousand)	5000	6044	5500	5500	6000	6500	6600
5. Publish basic and applied research work and papers to provide main technological service in trade, industrialization and economic development by creating research facilities.	Number and rate of implementation of project on new research lab	4	No.	2	1	2	2	2	2	2
	Number and rate of implementation of project on modernization research lab		No.	3	4	3	3	3	3	3
	Memorandum of understanding (MoU) signed in local and abroad.		No.	21	-	21	21	22	23	23
	Number of project under foreign fund assistance.		No.	1	1	1	1	1	1	1
	Students completed thesis MS/M.phil/Ph.D under supervised by scientists		No. (Person)	160	160	160	160	170	180	185
	Number of national/ International seminar/ workshop.		No.	10	10	12	12	14	16	17
6. Conduct training on Science and technology	Basic training for officers	1	No. (Person)	35	30	40	40	40	40	40
	Number of students/ trainees from in-house		No. (Person)	350	345	360	360	370	380	395
	Number of trainees in a variety of training institutions within the country.		No. (Person)	65	66	70	70	75	80	85

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
	Participation in meeting/seminar in abroad.		No. (Person)	27	15	30	30	32	35	37
	Participation in meeting/seminar within the country.		No. (Person)	15	15	20	20	25	30	35
	Number of supervisors for achieving research degree students.		No. (Person)	12	12	15	15	18	20	22
	Number of Officer/scientists completed higher education (Ph.D, M. Phil, MS)		No. (Person)	10	8	12	12	15	18	20
7. Provide fellowships and opportunity for higher study and research	Provided fellowship for researcher	1	No. (Person)	50	50	50	50	50	50	50

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

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
Operational Units							
2605-3033 - BCSIR	1-7	117,15,76	122,00,00	122,00,00	132,72,00	145,59,16	159,08,12
Total : Operational Units		117,15,76	122,00,00	122,00,00	132,72,00	145,59,16	159,08,12
Total : Non Development		117,15,76	122,00,00	122,00,00	132,72,00	145,59,16	159,08,12
Approved Projects							
2605-5001 - Strengthening of Leather Research Institute	3	0	0	3,60,00	7,27,00	13,12,00	0
2605-5004 - Capacity Building of IFST for Research Milk and Dairy Products.	2	0	0	2,62,00	15,70,00	0	0
2605-5068 - Establishment of Designated reference Institute for Chemical Amazements	1-6	5,00,00	3,01,00	3,79,00	0	0	0
2605-5114 - Establishment of Centre for Technology Transfer and Innovation (ECTTI)	1-7	10,00,00	19,00,00	17,50,00	9,63,00	0	0
Total : Approved Projects		15,00,00	22,01,00	27,51,00	32,60,00	13,12,00	0
Total : Development		15,00,00	22,01,00	27,51,00	32,60,00	13,12,00	0
Total :		132,15,76	144,01,00	149,51,00	165,32,00	158,71,16	159,08,12

6.4 Bangladesh National Scientific and Technical Documentation Centre (BANSDOC)

6.4.1 Recent Achievements: As a national apex body in the domain of scientific and technological information services BANSDOC has initiated web based information services by using ICT. BANSDOC collect S&T research information from various national and international sources, store the information and disseminate to the scientists & technologists, teachers & researchers, planners & policy-makers as well as the stakeholders according to their requirement. On-line information services are being served by BANSDOC through 10 nos of databases which is linked with BANSDOC website. In the last three years BANSDOC has collected 28,063 nos of research information and disseminates 26,501 nos of pages of research information wherever 34,704 nos of stakeholders are directly involved. BANSDOC also organized 57 dissemination workshop, also conducted 10 nos internship programs involving 206 students.

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. Collection, preservation and dissemination of scientific information.	Information Collection	2	No.	10000	10483	10500	6000	6000	5000	4500
	Information Dissemination		Page	7200	7701	7300	7300	7400	7500	7700
	Beneficiaries		No.	12700	13104	13300	10000	10100	10100	10300
2. Organizing seminar and workshop on science.	Awareness Meeting, Seminar & Workshop	2	No.	15	15	16	8	10	12	15
3. Arranging training on science and technology.	Internship Courses	1	No.	3	3	3	4	4	4	4

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

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
Operational Units							
2605-3035 - BANSDOC	1-3	3,53,51	4,80,00	4,80,00	4,95,00	5,44,50	5,98,98
Total : Operational Units		3,53,51	4,80,00	4,80,00	4,95,00	5,44,50	5,98,98
Total : Non Development		3,53,51	4,80,00	4,80,00	4,95,00	5,44,50	5,98,98
Total :		3,53,51	4,80,00	4,80,00	4,95,00	5,44,50	5,98,98

6.5 National Museum of Science and Technology (NMST)

6.5.1 Recent Achievements: In the last three fiscal years, about 1,58,548 visitors visited the science related exhibits of permanent galleries of National Museum of Science & Technology. The project titled "Establishment of National Science & Technology Complex" has been completed 74% of the current package work. Aimed at establishing a modern and world-class science museum the project titled "Study Project for Establishing A World Class State of the Art Science & Technology Museum" study tour on the project has been completed and the report has been submitted to the ministry. 17 ultramodern foreign exhibits including 4D-Movie and Thriller Rider have been installed in the museum. 21 science related seminars and art competition for children have been arranged. National Science & Technology Week have observed on 64 districts of the country and central level in Dhaka. There are 170 mobile science exhibitions were arranged through Museo-bus. The number of visitors in these exhibition were about 3,30,000.

6.5.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
1. Training on Science & Technology	Internal Training	1	Public hours	60	60	60	60	60	60	60
	Science fair/Seminar/Workshop		No.	71	85	72	582	582	582	585
2. Arrange science fairs / exhibitions / Olympiad at district and national level with permanent science exhibition	Visitors of the Science Museum	2	No.	48000	75000	52000	76000	78000	80000	82000
	Mobile Science fair		No.	60	97	70	100	110	120	130
	Arrange popular science lectures		No.	8	6	10	6	6	6	6
	Projects of displayed in Science Fairs in 64 districts		No.	2600	2610	2800	2600	2800	3000	3000

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
3. Development of physical infrastructure in the project of science and technology complex	To bring all organization working for the development of science under same umbrella	5	Square meter	4300	4300	5450	5450	11910	-	-
4. Establishment of Science Club at Upazila	Established Science Club	2	No.	215	140	138	51	-	-	-

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

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
Operational Units							
2605-3037 - National Science & Technology Museum	1	5,04,53	6,70,00	7,21,84	8,14,00	8,95,37	9,84,99
Total : Operational Units		5,04,53	6,70,00	7,21,84	8,14,00	8,95,37	9,84,99
Total : Non Development		5,04,53	6,70,00	7,21,84	8,14,00	8,95,37	9,84,99
Approved Projects							
2605-5108 - Establishment of National Science and Technology Complex (1st Phase)	1	28,65,00	122,63,00	41,30,00	100,60,00	0	0
2605-5113 - Study Project for Establishing A World Class State-of-Art Science and Technology Museum	3	1,95,00	44,00	24,00	0	0	0
Total : Approved Projects		30,60,00	123,07,00	41,54,00	100,60,00	0	0
Total : Development		30,60,00	123,07,00	41,54,00	100,60,00	0	0
Total :		35,64,53	129,77,00	48,75,84	108,74,00	8,95,37	9,84,99

6.6 Bangabandhu Sheikh Mujibur Rahman Novotheatre

6.6.1 Recent Achievement: The aim is to encourage all citizens and students of the country to learn space science through entertainment and to inculcate a positive and accurate idea about outer space in their mind the existing Opto-mechanical system of Novotheatre has up gradated and ultra-modern digital and Hybrid system with synchronisation. A thirty Minutes digital film has made on the greatest bangalee of all time, Father of the Nation Bangabandhu Sheikh Mujibur Rahman. It is expected that the visitors will be able to learn about contribution of the greatest leader on liberation struggle of Bangladesh and history and culture of the country. Furthermore, thirty scientific and digital exhibits, 5-D Movie theatre, Smart game and smart step floor and 5-D-Edutainment simulator have been established to attract visitors. As a non-formal Science Education Centre with the aim to encourage 7,07,000 citizens particularly students to learn space science through entertainment and to inculcate a positive and accurate idea about outer space in their mind. E-ticketing/ computerized ticketing system has been installed. Moreover, Nuclear Industry Information Centre (NIIC) with 3-D Projection has been established to provide the proper information to the people about nuclear power in line with establishment of Ruppur Nuclear power plant in the country. Now Bangabandhu Sheikh Mujibur Rahman Novotheatre is under National Web Portal and it has created an apps.

6.6.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16		2016-17		2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1. Training on science and technology	Internal training	1	Person No.	40	40	45	45	50	55	55
	number of saminer/ workshop		No.	3	3	3	3	3	3	4

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
2. To teach science and astronomy through entertainment by the exhibition of digital films and different exhibits	Visitor in Planetarium	2	Person Thousand	135	140	140	140	140	145	150
	Visitor in exhibits and Rides			65	100	70	100	110	115	117

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

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
Operational Units							
2605-3049 - Bangabandhu Sheikh Mujibur Rahman Novo Theatre	1-4	3,07,50	3,70,00	4,52,00	5,10,00	5,57,00	6,09,12
Total : Operational Units		3,07,50	3,70,00	4,52,00	5,10,00	5,57,00	6,09,12
Total : Non Development		3,07,50	3,70,00	4,52,00	5,10,00	5,57,00	6,09,12
Approved Projects							
2605-5084 - Establishment of Bangabandhu Sheikh Mujibur Rahman Novo Theatre at Rajshahi	2	0	0	0	9,80,00	0	0
Total : Approved Projects		0	0	0	9,80,00	0	0
Total : Development		0	0	0	9,80,00	0	0
Total :		3,07,50	3,70,00	4,52,00	14,90,00	5,57,00	6,09,12

6.7 National Institute of Bio-technology

6.7.1 Recent Achievements: Tissue culture derived disease free Aloe vera seedlings has been evaluated at field level and transferred to farmer's field for trial at natural condition. Gene transfer to egg plant (BARI begun-4) for development of drought and salt tolerant variety is in trial. Production and disease related markers using microsatellite DNA for black bengal goat and local duck has been primarily identified. Endangered fish sperm using cryopreservation method has been preserved and fertilization rate using preserved sperm has been observed. Production of eco-friendly enzymes (keratinase and amylase) for leather and textile processing and their applications on hide for hair follicle removal & fabrics for desizing have been investigated respectively. Universal model vaccine and medicine against Rota Virus related diarrhea based on invariable region of the genome has been developed and published in scientific journal. Bacterial strains have been preserved for development of rice biofertilizer. Chromium tolerant bacteria have been isolated for heavy metal pollution control. Blood samples from pregnant women of Bangladesh are being analyzed for the detection of genetic predisposition to diabetes mellitus type 2 using SNP markers. DNA sequencing service has been established and offering to the research communities. To develop human resource in the area of biotechnology in Bangladesh, 621 and 73 persons are trained under 30 Basic and 05 mid-term training programs respectively; and 13 public awareness programs have been arranged.

6.7.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
1. Training on science and technology	Trained Manpower	1	No.	126	162	160	155	155	155	155
2. Awareness on research achievement to the stakeholders	Published article in scientific Journal and Book	4	No.	6	6	8	7	8	10	12
	Arranged seminar and workshop			1	1	1	1	1	1	1
3. Arrangement seminar and workshop relating science	Arranged seminar and workshop	2	No.	1	1	2	2	2	2	2

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
1	2	3	4	5	6	7	8	9	10	11
4. DNA sequencing service	Provided DNA sequencing services	4	No.	50	56	66	60	70	80	90
5. Production of Taq DNA polymerase enzyme	Amount of produced enzyme	4	No. IU	22000	22000	24200	24200	25300	26000	27000
6. Development of Rice bio-fertilizer	Isolation of soil bacteria from rice roots nodules capable for fixing nitrogen, preservation and identification	4	No.	27	27	30	30	33	35	40
	Determination of nitrogen fixing ability and selection of potential bacterial strain			14	14	16	16	18	20	22
7. Production of Aloe Vera seedling through Tissue culture and development of cultivation method using biotechnology	Production of Aloe Vera seedling through Tissue culture and hardening	4	No.	66	-	73	400	450	500	600
	Performance evaluation in the office field			14	-	16	300	350	400	450
	Determination of genetic and phytochemical characteristics of cultivated variety for variety detection			0	0	0	10	12	15	16
8. Detection of microsatellite marker of Hilsa for determination genetic variants	Collection Hilsa fish from different rivers	4	No.	-	-	150	150	160	170	180
	Isolation of DNA and carry out PCR			-	-	150	150	160	170	180
	Genomic DNA sequencing			-	-	30	30	35	40	45
9. Production of eco-friendly microbial enzymes for textile and leather processing	Sample collection, isolation of potential organism from sample, selection of capable organism	4	No.	27	27	30	30	35	40	45
	Identification of selected organism and measurement of enzyme activity			14	14	16	16	18	20	25
	Application and produced enzyme on garment and leather skin and observation of result			7	7	8	8	10	12	15

6.7.3 Medium Term Expenditure Estimates by Operational Unit, Programmes and Projects

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates		
			2016-17	2017-18	2018-19	2019-20	
1	2	3	4	5	6	7	8
Operational Units							
2605-3048 - National Institute of Biotechnology	1-4	4,29,85	5,45,49	6,53,86	7,50,00	8,24,97	9,07,53
Total : Operational Units		4,29,85	5,45,49	6,53,86	7,50,00	8,24,97	9,07,53
Total : Non Development		4,29,85	5,45,49	6,53,86	7,50,00	8,24,97	9,07,53
Total :		4,29,85	5,45,49	6,53,86	7,50,00	8,24,97	9,07,53

6.8 Bangladesh Atomic Energy Regulatory Authority

6.8.1 Recent Achievements: Siting license for Rooppur Nuclear Power Plant has been issued. In addition, BAERA has issued 555 new licenses, 909 permits and NOCs, and renewed 2777 licences in favor of

different radiation facilities (e.g. radiotherapy, nuclear medicine, industry, diagnostic X-rays, educational and research institutes) in Bangladesh according to "Bangladesh Atomic Energy Regulatory Act, 2012" and "Nuclear Safety and Radiation Control Rules-1997". Bangladesh Atomic Energy Regulatory Authority organized 41 training courses of different kinds, focusing on nuclear safety and radiation protection aspects within this period and through these courses 1724 radiation workers have been trained in order to raise awareness of the radiation workers of nuclear and radiation facilities in Bangladesh. A Fast Track Service has been introduced to accelerate import/ export permit activities for nuclear and radioactive materials and radiation generators, and a Grievances Redress System has been introduced to ensure accountability and transparency to the people. Furthermore, a guidance document, entitled "Regulatory Guidance on Site Evaluation for the Safety of Nuclear Power Plants" has been prepared as a part of the licensing process for different licensing stages of Rooppur Nuclear Power Plant. A protocol has been signed with the Russian Regulatory Authority (ROSTECHNADZOR) on 14/10/2015 for cooperation on the safe regulation of nuclear activities in Bangladesh including nuclear regulatory infrastructure development for the Bangladesh Atomic Energy Regulatory Authority.

6.8.2 Activities, Output Indicators and Targets

Activities	Output Indicator	Related Strategic Objectives	Unit	Revised Target	Actual	Target	Revised Target	Medium Term Targets		
				2015-16	2016-17	2017-18	2018-19	2019-20		
				5	6	7	8	9	10	11
1. Authorization for operation of nuclear and radiation facilities	Issued license for the facilities	3	No.	-	274	80	-	240	245	250
Renewed license for the facilities	-			1229	1450	-	1220	1230	1240	
2. Authorization for import and export of nuclear and radioactive materials/radiation generators	Issued permit/NOC	3	No.	-	324	270	-	370	380	390
3. Certification of Radiation Control Officers	RCO certificate issued	3	No.	-	248	170	-	290	295	300
	RCO certificate renewed			-	335	292	-	290	295	300
4. Regulatory inspection of nuclear and radiation facilities	Regulatory inspection	3	No.	-	340	350	-	335	345	355
5. Regulatory document preparation and technical document evaluation	Preparation and evaluation of regulatory documents	3	No.	-	24	12	-	15	16	17
6. Organizing seminars and workshops on science	Training courses organized	2	No.	-	14	14	-	13	14	15
	Trained manpower			-	528	550	-	420	440	460
7. Participation on the training program organized by IAEA/RCA/FNCA/ANSN to implement agreement on regional cooperation	Participants	1	No.	-	77	60	-	72	75	78
8. Training on science and technology	Trained manpower	1	No.	-	117	25	-	30	35	40

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

(Taka in Thousand)

Name of the Operational Unit/ Programme/Project	Related Activity	Actual 2015-16	Budget	Revised	Medium Term Expenditure Estimates			
			2016-17		2017-18	2018-19	2019-20	
			4	5	6	7	8	
Operational Units								
2605-3034 - Bangladesh Atomic Energy Regulatory Authority	1-4	2,15,00	2,25,00	2,25,00	2,40,00	2,54,00	2,79,40	
Total : Operational Units		2,15,00	2,25,00	2,25,00	2,40,00	2,54,00	2,79,40	
Total : Non Development		2,15,00	2,25,00	2,25,00	2,40,00	2,54,00	2,79,40	
Total :		2,15,00	2,25,00	2,25,00	2,40,00	2,54,00	2,79,40	