

Grant No. 37

42 - Energy and Mineral Resources Division

Medium Terms Expenditure

(Taka in Thousands)

Description	Budget 2016-17	Projection	
		2017-18	2018-19
Non-Development	62,25,00	68,48,00	75,34,00
Development	1911,00,00	2102,10,00	2312,30,00
Total	1973,25,00	2170,58,00	2387,64,00
Revenue	617,99,50	471,26,84	575,97,50
Capital	1355,25,50	1699,31,16	1811,66,50
Total	1973,25,00	2170,58,00	2387,64,00

1.0 Mission Statement and Major Functions

1.1 Mission Statement

Ensure energy security for the country through exploration, development, production, import, distribution and sound management of different sources of energy and mineral resources

1.2 Major Functions

- 1.2.1. Formulation of Acts and Rules related to oil, natural gas, liquid petroleum products and mineral resources;
- 1.2.2. Formulation of policy related to energy, gas and different types of minerals except radio-active minerals;
- 1.2.3. Managing affairs mentioned in the Bangladesh Oil, Gas and Mineral Resources Ordinance 1986 and the Bangladesh Petroleum Ordinance 1974 as the government's responsibility;
- 1.2.4. Managing affairs mentioned in the Bangladesh Mineral Exploration & Development Corporation Order 1972, now merged with Petrobangla, and government's responsibilities mentioned therein;
- 1.2.5. Administration, planning, programming and management of programmes related to geological survey;
- 1.2.6. Administration and control of the Geological Survey of Bangladesh, the Bureau of Mineral Development, the Department of Explosives, the Bangladesh Petroleum Institute, Petrobangla, Hydrocarbon Unit and the Bangladesh Petroleum Corporation;
- 1.2.7. Liaison with international organizations, including matters relating to treaties and agreements.

2.0 Medium Term Strategic Objectives and Activities

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
1. Ensuring energy security	<ul style="list-style-type: none"> • Carryout geological mapping • Explore various sources of energy (drilling) • Carryout geo-engineering mapping • Evaluate the catastrophic situation for environment and disaster management 	<ul style="list-style-type: none"> • Geographical Survey of Bangladesh (GSB)

Medium-Term Strategic Objectives	Activities	Implementing Departments/Agencies
1	2	3
	<ul style="list-style-type: none"> • Explore various sources of energy in different areas of the country • Carryout drilling of wells for development and production of Gas • Ensure production of gas through national company and IOCs • Ensure extraction of coal as an alternative source of energy • Conduct 2D-3D seismic survey 	<ul style="list-style-type: none"> • Petrobangla
	<ul style="list-style-type: none"> • Organize workshops and seminars 	<ul style="list-style-type: none"> • Department of Explosives • BPI • Hydrocarbon Unit
	<ul style="list-style-type: none"> • Conduct research activities 	<ul style="list-style-type: none"> • Hydrocarbon Unit • BPI
	<ul style="list-style-type: none"> • Organize training at home and abroad 	<ul style="list-style-type: none"> • BPI
2. Ensuring efficient use of energy and its supply throughout the country	<ul style="list-style-type: none"> • Expand gas transmission pipelines to different regions of the country • Import LNG • Install compressor station to maintain the flow of gas pressure • Install pre-paid and remote meters • Disconnect illegal and defaulter customers' connections 	<ul style="list-style-type: none"> • Petrobangla
	<ul style="list-style-type: none"> • Enhance storage capacity of fuel • Increase the capacity for refining crude petroleum • Increase supply of LPG • Import crude oil, refine and proper distribution • Import refined petroleum and supply 	<ul style="list-style-type: none"> • BPC
	<ul style="list-style-type: none"> • Ensure safe production, storage, transportation and use of flammable materials and to this end issue no objection certificates, renew/issue licenses • Examine explosives 	<ul style="list-style-type: none"> • Department of Explosives
	<ul style="list-style-type: none"> • Prepare survey report on the reserve of energy resources 	<ul style="list-style-type: none"> • Hydrocarbon Unit
3. Expanded reserve of non-oil and gas mineral resources	<ul style="list-style-type: none"> • Lease and issue licenses 	<ul style="list-style-type: none"> • BMD

3.0 Poverty and Gender Reporting

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

3.1.1 Ensuring energy security

Impact on Poverty Reduction: Energy is the main driving force of a country. With the increase of energy reserves through oil and gas exploration; there is an increase in power generation, industrialisation and the expansion of small and cottage industries nationwide. As a result, the income of the poor increases. Through capacity building in the exploration, development and production of gas, the economic development of the country will be accelerated which will have positive impact on poverty reduction.

Impact on Women's Advancement: All the people of the country are considered to provide energy facilities in line with the increased oil and gas reserve. The women, as half of the total population, are also getting benefit of this initiative. Accelerated development of the economy from the above initiatives will have positive impact on women's development. Through capacity building in the exploration, development and production of gas, the economic development of the country is being accelerated which has positive impact on women's development and poverty reduction.

3.1.2 Ensuring efficient use of energy and its supply throughout the country

Impact on Poverty Reduction: Poverty reduction process is getting momentum through engaging poor people in the installation of gas pipelines and distribution of gas. With the supply of fuel according to demands, people linked with irrigation and agriculture is being supported to increase their production. Increased agricultural production helps reducing poverty of the country. In addition to that, efficient use of gas has a positive impact on socio-economic development and poverty reduction despite its limited stock.

Impact on Women's Advancement: Women are benefiting in household activities as gas distribution widened. Supply of fuel according to demand helps women engaged in agriculture and irrigation sector.

3.1.3 Expand reserve of non-oil and gas mineral resources

Impact on Poverty Reduction: There are vast reserves of mineral resources in different areas of the country. Employment opportunities are created through the production process of these mineral resources which directly contribute to poverty reduction.

Impact on Women's Advancement: Exploration of the mineral resources generates employment that contributes to women's development.

3.2 Poverty Reduction and Women's Advancement Related Spending

(Taka in Thousands)

Particulars	Budget 2016-17	Projection	
		2017-18	2018-19
Poverty Reduction	1544,42,31	1761,48,83	1875,63,06
Gender	882,81,87	969,79,19	1062,22,48

4.1 Priority Spending Areas/Programmes

Priority Spending Areas/Programmes	Related Strategic Objectives
1. Gas exploration and production: Strengthening gas exploration activities is necessary to meet the increasing national demand for gas. The energy security of the country will be ensured if new gas fields can be discovered. So, gas exploration and production have been given the highest priority.	<ul style="list-style-type: none"> Ensuring energy security
2. Development of the Coal sector: The existing national gas reserve is depleting gradually. The coal sector has therefore been given the second highest priority as the development of the coal sector can help to ensure energy security.	<ul style="list-style-type: none"> Ensuring energy security

Priority Spending Areas/Programmes	Related Strategic Objectives
3. Ensuring uninterrupted supply of fuel oil: Uninterrupted supply of fuel is a must for development of agriculture, transport industry and the power sector. For this reason, ensuring uninterrupted supply of oil has been given the 3 rd highest priority.	<ul style="list-style-type: none"> Ensuring efficient use of energy and its supply throughout the country
4. Expansion of gas network and its efficient use: If maximum gas supply is ensured through expansion of the gas network, both small and large industries will be established in remote areas of the country. This will contribute to the economic development of the country. So, this sector has been given the 4 th highest priority.	<ul style="list-style-type: none"> Ensuring efficient use of energy and its supply throughout the country
5. Reduction of system losses and enhancement of operational efficiency: Government subsidy to this sector can be reduced significantly if revenue collections can be increased through reducing systems losses, enhancing the operational skills in marketing of oil and strengthening the realization of arrears. For this reason, this activity has been given the 5 th priority.	<ul style="list-style-type: none"> Ensuring efficient use of energy and its supply throughout the country.

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
Petro Bangla	1650,43,00	1038,30,00	1314,80,00	1445,56,00	1354,83,00
Bangladesh Petroleum Corporation	327,20,00	25,27,00	377,00,00	600,00,00	629,18,00
Bangladesh Petroleum Institute	1,29,00	1,45,24	1,73,00	1,86,60	1,93,22
Secretariat	27,17,87	19,46,80	225,22,70	77,65,60	368,28,78
International Organisations	1,03	92	92	92	92
Department of Explosives	1,83,05	2,96,18	4,70,00	3,32,74	3,43,39
Bureau of Mineral Development	2,08,85	76,22	1,88,00	1,24,35	1,36,34
Geological Survey of Bangladesh	27,38,20	31,66,69	47,90,38	40,91,79	28,60,35
Grand Total :	2037,41,00	1119,89,05	1973,25,00	2170,58,00	2387,64,00

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
	Revenue Expenditure					
4500	Pay of Officers	6,96,10	8,89,81	9,49,45	10,28,46	10,67,57
4600	Pay of Establishment	4,83,67	6,97,44	7,23,62	7,65,01	7,90,81
4700	Allowances	10,64,76	10,33,21	11,15,52	12,52,75	12,88,65
4800	Supplies and Services	664,94,04	436,61,64	550,37,05	383,68,69	498,90,55
4900	Repairs and Maintenance	2,02,88	1,97,34	19,22,81	31,88,01	14,37,95
5900	Grants in Aid	1,30,00	1,45,49	1,74,50	1,88,60	1,94,22
6100	Contributions to International Organisation	1,03	92	92	92	92
6300	Pensions and Gratuities	8,20,52	10,70,00	18,75,63	23,34,40	29,26,83
	Total : - Revenue Expenditure	698,93,00	476,95,85	617,99,50	471,26,84	575,97,50
	Capital Expenditure					
6800	Acquisition of Assets	540,57,18	342,47,66	481,12,05	765,05,06	664,78,80
6900	Acquisition / Purchase of Land & Landed Properties	94,40,42	73,71,00	138,54,00	27,49,00	3,80,00
7000	Construction and Works	426,13,01	95,57,04	539,91,05	263,63,72	822,53,70
7400	Advances to Government Employees	19,00	19,00	16,00	24,00	24,00

Economic Group	Description	Budget	Revised	Budget	Projection	
		2015-16		2016-17	2017-18	2018-19
7900	Development Import Duty and VAT	206,48,00	129,70,00	112,20,40	356,54,52	232,31,00
7980	Capital Block Allocation & Misc. Capital Expen.	70,70,39	1,28,50	83,32,00	286,34,86	87,99,00
	Total : - Capital Expenditure	1338,48,00	642,93,20	1355,25,50	1699,31,16	1811,66,50
	Grand Total :	2037,41,00	1119,89,05	1973,25,00	2170,58,00	2387,64,00

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. Exploration/discovery of new Gas fields	1 & 2	Number	1	3	1	1	2	1	1
Increase in Gas production	1	%	05	19	05	20	20	20	20
Increase in Coal extraction	1	%	03	15	03	24	17	22	22
4. Construction and expansion of gas transmission pipelines to different regions of the country	3	KM	40.00	210	142.20	90	100	-	-

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

6.1 Secretariat

6.1.1 Recent Achievements: International bid has been invited to conduct Non-Exclusive Survey/Multi-Client Seismic Survey following the model Bid-Documents, and bid evaluation committee submitted the report. Signing agreement is underway and exploration and extraction work of gas from Block Ds-12, Ds-16 and Ds-21 of the deep sea is continuing on an emergency basis under the Speedy Supply of Power and Energy (Special Provision) Act, 2010. .

6.1.2 Activities, Output Indicators and Targets: Not Applicable

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
Operational Units							
4201-0001 - Secretariat		10,51,64	14,92,87	18,29,60	26,31,25	31,19,35	37,60,43
4206-4462 - International Union of Geological Sciences (IUGS)		0	57	57	57	57	57
4206-4463 - Commission for the Geological Map of the World (CGMW)		27	46	35	35	35	35
Total : Operational Units		10,51,91	14,93,90	18,30,52	26,32,17	31,20,27	37,61,35
Total : Non Development		10,51,91	14,93,90	18,30,52	26,32,17	31,20,27	37,61,35
Approved Projects							
4201-9190 - Block allocation for unapproved projects.		0	10,84,00	0	196,80,00	43,36,30	328,29,00
Total : Approved Projects		0	10,84,00	0	196,80,00	43,36,30	328,29,00
Total : Development		0	10,84,00	0	196,80,00	43,36,30	328,29,00
Total :		10,51,91	25,77,90	18,30,52	223,12,17	74,56,57	365,90,35

6.2 Petrobangla

6.2.1 Recent Achievements: In recent times, under the Petrobangla, 4 (Four) exploration and development wells, 13 (Thirteen) drilling of development wells, and 1 (One) gas field (Ruggani) have been discovered. 1 (One) drilling Rig to be checked and 3 (Three) process plants have been procured. 1,200 km 2D and 1,010

km 3D seismic survey have been completed. Under production sharing agreement, at present, Santos of Australia, NGC of India, Chevron of the USA, and Conoco and Phillips Company are working on oil and gas exploration and development. Alongside, BAPEX has been conducting exploration activities in block 8 and 11. Through 92 wells of 21 gas fields including *Shemutang* of the country, gas and condensate are being produced. Comparing to the last three years (2012-13 to 2014-15), supply has increased and rose to 2,700 MMCFD. 419 km different sizes gas transmission lines have been installed. Besides, extraction of coal has been continued through developing underground mining, of which on an average 4,500 MT is produced per day.

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. Explore various sources of energy in different areas of the country	Drilling of gas exploration wells	1	Number	2	-	3	1	-	2	-
2. Carryout drilling of wells for development and production gas	Drilling of production wells and development		Number	9	14	13	10	9	5	4
3. Ensure production of gas through national company and IOCs	Production through IOC	1	BCF	420	501	440	550	559	558	560
	Production through National company		BCF	500	392	530	398	414	406	410
4. Import LNG*	Amount of LNG import	2	BCF	-		183		183	183	
5. Ensure extraction of coal as an alternative source of energy	Amount of Coal Extraction	1	Million MT	1.00	0.676	1.10	1.10	0.80	1.00	1.00
6. Expand gas transmission pipelines to different regions of the country	Installation of transmission lines	3	KM	-	210	142.2	90	100	-	-
7. Conduct 2D-3D seismic survey	Seismic survey Conducted	3	Line KM	500	3940	400	6150	800	900	800
8. Install pre-paid and remote meters	pre-paid and remote meters installed	2	Number (thousand)	-	8.79	9280	0.22	40	200	210
9. Disconnect illegal and defaulter customers' connections.	illegal connections disconnected	2	Number Thousand)	4.5	11.32	5.00	104.50	107.00	111.50	120.00
10. Install compressor station to maintain the flow of gas pressure	Install compressor station	3	Number	2	6	6	5	111.32	6	

* LNG has not been imported before 2013-14

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
Approved Projects							
4205-5001 - Technical Assistance for Natural Gas Transmission and Distribution Development Investment Programme		0	0	2,20,00	0	0	0
4205-5010 - Mobarakpur Oil/Gas Exploration Well(01.01.2006-30.06.2010)	1-2	25,62,00	6,00,00	28,50,00	0	0	0
4205-5016 - * Rehabilitation and Expansion of Existing supervisory control and data acquisition (SCADA) system of National Gas Grid under GTCL	1-2	2,18,05	20,00,00	13,00,00	55,00,00	101,96,00	6,02,00
4205-5017 - * Moheshkhali-Anwara Gas Transmission Pipe line (01/07/2014-30/06/16)	6,8,10	0	430,00,00	400,00,00	150,00,00	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
4205-5018 - Natural Gas Efficiency Project (Installation of wellhead Gas Compressor at Location-c of Titas Gas & Narsingdi Fields) (01/07/2014-30/06/2018) Approved	1-10	0	30,00,00	12,13,00	35,00,00	143,47,52	677,00,00
4205-5019 - Natural Gas Efficiency Project (Installation of Pre-paid Metering System for the consumer of KGDCL Residence) (01/07/2014-31/12/2020) Approved	6,8,10	2,46,25	49,12,00	4,74,00	30,00,00	199,65,16	0
4205-5021 - Dhanua-Elenga & West Bank of Bangabandhu Bridge-Nalka Gas Transmission Pipeline (BD-P78: Natural Gas Efficiency Project (01/07/2014-30/06/2019) Approved	6-7	2,10,00	225,87,00	31,96,00	240,50,00	164,00,00	263,84,00
4205-5022 - * Installation of Pre-paid Gas Meter for TGTDCCL (BD-P78: Natural Gas Efficiency Project (01/01/2015-31/12/20) Approved	6-7	0	26,00,00	7,80,00	50,00,00	295,24,00	333,19,00
4205-5030 - Installation of Compressor stations at Muchai and Ashuganj (01.01.2006-30.06.2011)	6	73,88,93	50,00,00	11,00,00	120,00,00	380,00,00	0
4205-5050 - Appraisal of Gas Fields (3-D Seismic) (Titas, Bakhrabad, Sylhet, Kailashila and Rashidpur) (01.01.2006-31.12.2010)	7	0	0	5,60,00	0	0	0
4205-7016 - Sylhet gas transmission network upgradation Project	6	26,00,00	5,05,00	3,00,00	0	0	0
4205-7200 - West Bank of Jamuna Bridge-Naika, Hatikumrul-Ishwardi-Bheramara Gas Transmission Pipeline Project (01.07.2006-30.06.2014)	6	20,24,87	36,00,00	6,00,00	55,50,00	0	0
4205-7250 - Bheramara-Khulna Gas Transmission Pipeline Project (01.07.2007-30.06.2014)	6	80,44,62	10,00,00	2,50,00	0	0	0
4205-7260 - Bakhrabad-Shidhirgonj Transmission Pipeline (01.07.2007-30.06.2010)	6	76,18,47	27,00,00	22,00,00	25,00,00	15,00,00	10,00,00
4205-7300 - Augmentation of Gas Production under Fast Track Programme (Drilling of 5 wells and workover of one well under BGFCL & SGFL)	2	305,12,00	200,00,00	167,37,00	0	0	0
4205-7500 - Salda # 3,4 & Fenchugonj # 4, 5 Gas Fields Development project	2	93,63,50	31,50,00	13,00,00	0	0	0
4205-9199 - Gas seepage control and Appraisal and Development of Titas Gas Field (01.01.2010-30.06.2014)	2	123,47,94	384,20,00	280,00,00	472,00,00	0	0
4205-9203 - * Southwest Region Gas Distribution Project (01.01.2006 -31.12.2011).	6	115,17,00	78,09,00	22,00,00	49,80,00	50,00,00	64,78,00
4205-9204 - Gas Supply Efficiency Improvement of TGTDCCL	6,8	12,21,94	1,80,00	1,30,00	0	0	0
4205-9205 - * Gas Transmission Capacity Expansion Project (01.07.2009-30.06.201)	6,8	69,11,26	39,80,00	4,20,00	32,00,00	96,23,32	0
Total : Approved Projects		1027,86,83	1650,43,00	1038,30,00	1314,80,00	1445,56,00	1354,83,00
Total : Development		1027,86,83	1650,43,00	1038,30,00	1314,80,00	1445,56,00	1354,83,00
Total :		1027,86,83	1650,43,00	1038,30,00	1314,80,00	1445,56,00	1354,83,00

6.3 Bangladesh Petroleum Corporation (BPC)

6.3.1 Recent Achievements: BPC has been playing an important role in ensuring food security through uninterrupted supply of diesel to various places of the country including the northern region during the *Boro* season. In addition, appropriate steps have been taken to meet the additional requirement of power in the country through supply of diesel, furnace oil to the Quick Rental Power Plants and uninterrupted supply of jet fuel (Jet-A1) during Hajj season. Over the last three years (2012-13 to 2014-15), BPC imported a total of 37,71,793.00 MT of crude and 1,19,00,207.04 MT of refined fuel oil. Furthermore, BPC exported 95,17,800.92 MT of naphtha.

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. Enhance storage capacity of oil	Storage capacity	1	Lakh MT	11.53	0.20	12.80	0.12	1.00	0.30	2.00

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
2. Increase the capacity for the refining of crude petroleum	Capacity of refining			15.00	15	15	15	15	15	15
3. Increase supply of LPG	Quantity of supply			0.20	0.20	1.20	-	-	0.50	0.50
4. Import crude oil, refine and proper distribution	Import of crude oil			13.00	13.03	14	11	13	13	13
5. Import refine petroleum and supply	Import of refined oil			43.85	40.95	42	41	39	40	41

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
Approved Projects							
4205-5000 - Installation of Single Point Mooring (SPM) with Double Pipeline		0	0	15,55,00	377,00,00	600,00,00	629,18,00
4205-5011 - Extension of Aviation Fuel (Jet-A 1) Hydrant System at Hazrat ShahJalal International Airport, Dhaka	1-5	20,73,53	8,65,00	1,00	0	0	0
4205-7660 - Construction of MS Storage trunk at Eastern Ltd.	1-5	26,91,57	9,00,00	9,70,00	0	0	0
4205-9216 - Installation of Single Point Mooring	3	0	309,55,00	1,00	0	0	0
Total : Approved Projects		47,65,10	327,20,00	25,27,00	377,00,00	600,00,00	629,18,00
Total : Development		47,65,10	327,20,00	25,27,00	377,00,00	600,00,00	629,18,00
Total :		47,65,10	327,20,00	25,27,00	377,00,00	600,00,00	629,18,00

6.4 Geological Survey of Bangladesh (GSB)

6.4.1 Recent Achievements: 127 MT and 3.5 MT wet pit at Shalla and Dirai Upazilas of Sunamganj District, have been discovered, in dry condition which is altogether 52 MT. In order to know the economic feasibility of the stock of extractable white clay and limestone, geological survey has been conducted. Besides, environmental assessment and assessment of quality of water have been carried out through completion of chemical analysis of 50-feet deep underground water at Beramara Upazila of Kustia District. Geomorphologic and infrastructure of 1,50,000 scale map appropriate to land under greater Dhaka, installation of 4 sysometre in different parts of the country, production of standard sample of slides at different parts of the Dhaka City (specifically Botanical and Bolda Garden) including seismic micro zoning map of 11 cities have been completed. Identification works of weak areas of flood control embankment under the Dhaka, Narayanganj Demra (DNED) has been completed through GPR survey. Outside works of the two programs undertaken by the GSB with its own funding have been completed in order to get the preliminary idea of the coastal belt.

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. Carryout geological Mapping	Geological Maps	1, 2, 4	Number	19	13	22	14	17	18	19
2. Explore various sources of energy (Drilling)	Drilling	1,2,4		1	-	1	1	1	1	1
3. Carryout geo-engineering Mapping	Geo-engineering Maps	1,4		2	2	2	1	1	1	1
4. Evaluate the catastrophic situation for environment and disaster management	Evaluation Report	3.4		4	4	3	3	3	3	3

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
Operational Units							
4245-0000 - Geological Survey of Bangladesh	1-4	24,38,04	21,88,20	27,06,69	25,50,38	27,74,09	28,60,35
Total : Operational Units		24,38,04	21,88,20	27,06,69	25,50,38	27,74,09	28,60,35
Total : Non Development		24,38,04	21,88,20	27,06,69	25,50,38	27,74,09	28,60,35
Approved Projects							
4245-5000 - Identification and Economic Assessment of the Valuable Minerals in the River sands of Bangladesh		0	0	5,00	22,40,00	13,17,70	0
4245-5010 - Geo-Information for Urban Development (GUD), Bangladesh (01/01/2013-30/06/2016) Approved.	1,4	5,19,85	5,50,00	4,55,00	0	0	0
Total : Approved Projects		5,19,85	5,50,00	4,60,00	22,40,00	13,17,70	0
Total : Development		5,19,85	5,50,00	4,60,00	22,40,00	13,17,70	0
Total :		29,57,89	27,38,20	31,66,69	47,90,38	40,91,79	28,60,35

6.5 Department of Explosives

6.5.1 Recent Achievements: Over the last fiscal years' (2012-13, 2013-14 and 2014-15), the Department of Explosives under the Explosive and Petroleum Act, issued 1365, 1034, and 1646 *i.e.*, 26 types licenses. Besides, 48,678, 19,742 and 14,264 numbers of tanks have been examined and provided gas free certificates; 2,476, 2,535 and 2,451 no objection certificates for the import of inflammable liquids have been provided; and 57, 51 and 90 permissions for transportation of gas have been issued respectively in the same years. The Department also provided 688, 625 and 1059 expert opinions in different explosive related court cases during the same period.

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. Ensure safe production storage, transportation and use of flammable materials and to this end issuing no objection certificates, renew/issue licenses	Issuing license to explosive materials including petroleum	1, 2	Number	1375	1646	1425	1660	1670	1680	1700
	Issuing license for import of LPG cylinder			31000	421744	30500	40000	42000	45000	48000
	Issuing license for storage of LPG cylinders			142	322	142	200	220	250	260
	Issuing gas free certificate to vehicles carrying petroleum			825	850	850	850	850	950	950
	Examination of tanks of ships carrying petroleum			4000	14264	50000	7100	7200	72000	7250
2. Examination of Explosives	Examination of Explosives	2	Number	740	1059	760	700	680	680	690
3. Organize workshop and seminars	Workshop and seminars held	1	Number	03	02	03	01	01	01	01

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
Operational Units							
4232-0000 - Department of Explosives	1-3	1,36,93	1,83,05	2,96,18	4,70,00	3,32,74	3,43,39
Total : Operational Units		1,36,93	1,83,05	2,96,18	4,70,00	3,32,74	3,43,39
Total : Non Development		1,36,93	1,83,05	2,96,18	4,70,00	3,32,74	3,43,39
Total :		1,36,93	1,83,05	2,96,18	4,70,00	3,32,74	3,43,39

6.6 Bureau of Mineral Resources Development (BMD)

6.6.1 Recent Achievements: During the last three years (2012-13, 2013-14 and 2014-15), Bureau of Mineral Resources Development (BMD) has signed lease agreement with 55 companies to excavate stone from Lalmonirhat, Nilphamary, and Panchogar Districts, and silica sand from Maulvibazar. In addition, license of coalmine of Baropukuria Coalmine Company, hard rock mine of Modhyaopara Granite Company and Dhipipara Coalmine of Petrobangla have been renewed. During the last three years, revenues amounting to TK 133 crore have been collected by the BMD.

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. Lease and license	Leasing quarry	3	Number	40	61	40	65	70	75	80
	Issuing exploration license			05	-	05	05	06	10	10

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
Operational Units							
4241-0000 - Bureau of Mineral Development	1	55,65	2,08,85	76,22	1,88,00	1,24,35	1,36,34
Total : Operational Units		55,65	2,08,85	76,22	1,88,00	1,24,35	1,36,34
Total : Non Development		55,65	2,08,85	76,22	1,88,00	1,24,35	1,36,34
Total :		55,65	2,08,85	76,22	1,88,00	1,24,35	1,36,34

6.7 Bangladesh Petroleum Institute (BPI)

6.7.1 Recent Achievements: Over the last three years (2012-13, 2013-14 and 2014-15), 1,380 trainees including trainees of foundation courses of the 59 courses have been trained, and 149 trainees of 5 workshops *i.e.*, totaling of 1,529 trainees have been trained. In addition, Bangladesh Petroleum Institute (BPI) has developed a Unified Material Code (UMC) database for the stock of existing products of companies and linked it with them through internet and handed it over to the Petrobangla.

6.7.2 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. Organizing Training courses at home and abroad	Training Course	1,2	Number	4	29	4	25	30	33	36
2. Workshop and seminars	Workshop/ seminars	1		1	5	1	4	4	6	6
3. Conducting Research Activities	Research paper published	1		35	1	32	1	1	1	1

6.7.3 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
Operational Units							
4205-2771 - Bangladesh Petroleum Institute	1-3	2,34,44	1,29,00	1,45,24	1,73,00	1,86,60	1,93,22
Total : Operational Units		2,34,44	1,29,00	1,45,24	1,73,00	1,86,60	1,93,22
Total : Non Development		2,34,44	1,29,00	1,45,24	1,73,00	1,86,60	1,93,22
Total :		2,34,44	1,29,00	1,45,24	1,73,00	1,86,60	1,93,22

6.8 Hydro Carbon Unit

6.8.1 Recent Achievements: Hydro Carbon Unit functioning under the Energy and Mineral Resources Division assisted this division with technical advice on updating National Energy Policy, drafting and finalizing Coal Policy including agreements on production and distribution, gas reserve and gas demand, development of gas fields, future plan of gas sector as well as development of other relevant policies related to mineral resources sector. The unit has also prepared 24 (Twenty Four) analytical technical reports as well as Monthly Gas Reserve and Production January 2014 To August 2015, Report on Energy Economics (Draft), Report on Energy Scenario of Bangladesh on Monitoring and Supervision Procedure. These reports will help different companies under the Energy and Mineral Resources Division to develop their future planning.

6.7.2 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. Organize workshop and seminars	Number of workshop/ seminars	1, 2	Number	2	13	3	13	13	15	20
2. Prepare survey report on the reserve of energy resources	Number of survey	1		13	4	13	8	8	10	10
3. Conducting Research Activities	Research paper/survey	1		1	-	1	2	2	2	2

6.7.3 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
Operational Units							
4201-0004 - Hydrocarbon Unit		1,00,72	1,41,00	1,17,20	2,11,45	3,09,95	2,39,35
Total : Operational Units		1,00,72	1,41,00	1,17,20	2,11,45	3,09,95	2,39,35
Total : Non Development		1,00,72	1,41,00	1,17,20	2,11,45	3,09,95	2,39,35
Total :		1,00,72	1,41,00	1,17,20	2,11,45	3,09,95	2,39,35