

# Annual Report 2018-19



**Bangladesh Power Development Board**



# Bangladesh Power Development Board

## *Vision*

To deliver uninterrupted quality power to all.

## *Mission*

To secure continuous growth of electricity for sustainable development and ensure customer satisfaction.

## *Objectives*

- ◆ To be engaged in implementing the development program of the government in the power sector;
- ◆ To adopt modern technology and ensure optimum utilization of the primary and alternative source of fuel for sustainable development of power generation projects;
- ◆ To purchase power as a Single Buyer from power producers;
- ◆ To provide reliable power supply to customers enabling socio economic development;
- ◆ To promote a work culture, team spirit and inventiveness to overcome challenges;
- ◆ To promote ideas, talent and value systems for employees.



## From the desk of Chairman

It is a matter of immense pleasure that Bangladesh Power Development Board (BPDB), the largest electricity utility of the country is going to publish its Annual Report for the financial year 2018-2019.

Power sector of Bangladesh is a proud sector of the country with installed power generation capacity of 22,562 MW as of October 2019 (including captive and renewable energy). Power sector of Bangladesh is one of the booming sectors of the country. Now 95% of the total population has access to electricity. The largest energy consumers in Bangladesh are residential sector, followed by industries, commercial and agricultural sectors.

Only few years back high system loss, low plant efficiency, erratic power supply, shortages of funds for power plant maintenance and absence of new power generation plan were the big problems in Bangladesh's power sector, but now the scenario is completely different.

As the Annual Report is the mirror of an organisation, we are to portray the real picture of our performances in it and we are happy to express that BPDB enjoyed another marvelous year of success in the fiscal 2019, punctuated by our consecutive year of increased power generation. Though this achievement is worthy of celebration, we believe the best years are ahead for our organisation.

During the year under report, 3,493 MW new capacity was added to the national grid which raised the total generation capacity to 18,961 MW and annual increment of generation capacity was 18.86%. Out of this new capacity addition, BPDB's contribution was 2,563 MW (including IPPs and power import). The highest peak generation in the said year was 12,893 MW and the total energy generation was 70,533 GWh which was 17.66% and 12.53% higher than the previous year respectively.

Distribution system loss of BPDB's four zones during the said year also came down to 7.26% from 8.00% of previous year which is the sign of continuous improvement in distribution sector. During the period under report substantial progress was made in BPDB's four distribution zones as BPDB has been executing separate development projects in four zones for ensuring a healthy distribution system and customer satisfaction.

Now we are on the right track to achieve the goal of providing uninterrupted, quality and reliable power to all citizen of the country by 2021.

We are successful because of the number of best services we provide. We have a talented and hard working group of officers and employees and it is their efforts which have taken us to where we are today. I would like to take the opportunity to thank them for all their hard work in the said year.

I believe, the information provided in BPDB Annual Report 2018-2019 will help those who need it.

**Khaled Mahmood**

Chairman

Bangladesh Power Development Board



Hon'ble Prime Minister Sheikh Hasina inaugurating six Power Plants, nine Grid Sub-stations and 100% electrification of 12 Upazila through video conference from Ganabhaban.



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## 400 kV, 230 kV, 132 kV and 33 kV System in Bangladesh (Map)



## Present Board

(October, 2019)



**Khaled Mahmood**  
Chairman



**Md. Zahurul Haque**  
Member (Administration)



**Selim Abed**  
Member (Finance)



**Md. Azharul Islam**  
Member (P & D)



**Md. Mustafizur Rahman**  
Member (Company Affairs)



**Md. Abdul Mottalib**  
Member (Distribution)



**Sayeed Ahmed**  
Member (Generation)



## About BPDB

Bangladesh Power Development Board (BPDB) is a statutory body created in May 1, 1972 by Presidential Order No. 59 after bifurcation of erstwhile Bangladesh Water and Power Development Authority. BPDB had started its operation with generation capacity of only 500 MW. In its 47 years' service, the installed capacity of the country increased to 18,961 MW at the end of the FY 2018-2019.

As part of reform and restructuring, transmission was vertically separated as a subsidiary of BPDB and distribution was horizontally separated to create new distribution entities in capital city (DPDC & DESCO) and rural areas (REB). Further, a number of generation and urban distribution companies were created as a subsidiary of BPDB. The subsidiaries of BPDB are:

- ❑ Ashuganj Power Station Company Ltd. (APSCL)
- ❑ Electricity Generation Company of Bangladesh Ltd. (EGCB)
- ❑ North West Power Generation Company Ltd. (NWPGL)
- ❑ Power Grid Company of Bangladesh Ltd. (PGCB)
- ❑ West Zone Power Distribution Company Ltd. (WZPDCL)
- ❑ Northern Electricity Supply company Ltd. (NESCO)

BPDB is under the Power Division of the Ministry of Power, Energy and Mineral Resources, Government of Bangladesh. Key responsibilities of the Board are:

- Generation of electricity from its own Power Plants.
- Power purchase from Public & Private Generation companies as a single buyer.
- Bulk sales of electricity to Utilities as a single buyer.
- Retail sales of electricity within its Four Distribution Zones.

- Preparation of Generation and Distribution Expansion Plan.
- Implementation of Generation & Distribution Projects as approved by the Government.

BPDB prepared generation expansion plan to add about 17,304 MW from 2019 to 2023 with the aim to provide quality and reliable electricity to the all people across the country for desired economic growth and social development. BPDB also prepared distribution expansion plan to keep pace with the growing demand.

During the Financial Year under report (2018-19) Chairman and Members of the Board:

### Chairman

Mr. Khaled Mahmood

### Member (Administration)

Mr. Md. Zahurul Haque

### Member (Finance)

Mr. Selim Abed

### Member (Generation)

Mr. Sayeed Ahmed

### Member (Distribution)

Mr. Md. Fakhruzzaman (Upto 30.07.18)

Mr. Md. Abu Taher (From 31.07.18)

### Member (Planing & Development)

Mr. Md. Azharul Islam

### Member (Company Affairs)

Mr. Md. Mustafizur Rahman



## HIGHLIGHTS

Power sector witnessed significant progress in power generation in the fiscal year 2018-19. During this fiscal year 3,493 MW new capacity added which raised the total generation capacity to 18,961 MW and annual increment of generation capacity was 18.86%. Out of this new capacity addition, BPDB installed 2,563 MW (including contracted capacity of IPPs) and the remaining 325 MW was installed by NWPGL, 105 MW was installed by RPCL, 500 MW Import from India. The highest peak generation was 12,893 MW and the total energy generated 70,533 GWh which was 17.66% and 12.53% higher than the previous year respectively.

Electricity Demand growing day by day. In order to mitigate the demand-supply gap, an aggressive plan is prepared by the Government for new generation addition. As part of the plan, 50 power generation projects of capacity 15,151 MW are now under construction. The plan envisages around 17,304 MW new generation addition by 2023.

In this fiscal year, BPDB sold bulk energy of 66,547 GWh to the distribution utilities including BPDB zones as single buyer which was 12.37% higher than the previous year. Retail sales of BPDB's Four distribution zones was 10,573 MWh, which was 9.06% higher than the previous year. Distribution system loss of BPDB's came down to 7.26% from 8.00% of previous year. Collection/Import (C/I) ratio increased to 92.87% from 92.13%. Per capita generation and consumption (Grid) increased to 426 kWh & 375 kWh from 382 kWh & 336 kWh respectively of previous year

The net loss in the FY 2018-19 decreased to 1.75 Billion Taka from 83.54 Billion Taka of previous year. The net loss decreased from the previous year mainly due to increased gas based generation together with substantial amount of government subsidy.



## KEY STATISTICS

S.N.	Particulars	Year 2017-18	Year 2018-19	% Change over the previous year
1	<b>Installed Capacity of Power Plants as of June (MW):</b>			
	<b>a) Public Sector</b>			
	i) BPDB	5,266	5,498	4.41
	ii) APSCL	1,444	1444	-0.00
	iii) EGCB	839	839	0.00
	iv) RPCL	77	182	136.36
	v) NWPGL	1,070	1,395	30.37
	vi) BPDB-RPCL JV	149	149	0.00
	<b>b) Private Sector :</b>			
	i) IPP/SIPP	4,452	6,503	46.07
	ii) Rental	1,745	1,540	-11.75
	<b>c) REB (for PBS's only)</b>	251	251	0.00
	<b>d) Power Import</b>	660	1,160	75.76
	<b>e) System Total Installed Capacity (MW)</b>	15,953	18,961	18.86
2	Maximum Peak Generation (MW)	10,958	12,893	17.66
3	Maximum Peak Demand (MW)	14,014	13,044	13.43
4	<b>Net Energy generation (GWh):</b>			
	a) i) Public Sectors	31,082	35,107	12.95
	ii) Private Sectors (IPP, SIPP and Rental)	24,931	26,723	7.19
	iii) Power Import	4,783	6,786	41.89
	iv) Total Generation (In account of Single Buyer)	60,796	68,616	12.86
	b) REB (for PBS's only)	1,882	1,917	1.88
	<b>c) System Total Generation (GWh)</b>	62,678	70,533	12.53
5	Per Unit Generation Cost in Public & Private (Tk/kwh)	6.25	5.95	-4.80
6	a) Fuel Cost for Thermal Plants in Public Sector (MTk)	1,05,709	68,584	-35.12
	b) Per Unit fuel Cost for thermal Plants (Tk/KWh)	3.4	1.95	-42.56
7	Annual Plant Factor of Public Sector's Power Plants (%)	44.3	46.3	4.51
8	System load factor (%)	63.33	60.75	-4.08
9	<b>BPDB's Commercial Activities as Single Buyer :</b>			
	a) Bulk Sales Unit to Utilities (GWh)	59,221	66,547	12.37
	b) Bulk Billing Amount (MTk)	297,130	330,676	11.29
	c) Bulk Collection Amount (MTk)	293,725	332,294	13.13
	d) Accounts Receivables to Utilities (MTk)	102,581	89,862	-12.40
10	Transmission Loss (%)	2.76	3.15	14.13
11	Ave. Bulk Electricity Supply cost Taka/kWh	6.50	6.06	-6.77
12	<b>BPDB's Commercial Activities with in Distribution Zones :</b>			
	a) Energy Imports for Retail Sale (MKWh)	10,537	11,400	8.19
	b) Retail Sales Unit (MKWh)	9,694	10,573	9.06
	c) Retail Billing Amount (MTk)	65,987	73,365	11.18
	d) Retail Collection Amount (MTk)	66,078	73,473	11.19
	e) Accounts Receivables to Retail Consumers (MTk)	13,440	14,284	6.28
	f) Collection/Bill Ratio (%)	100.14	100.15	0.01
	g) Collection/Import Ratio (%)	92.13	92.87	0.80
	h) Distribution System loss (%)	9.89	9.12	-7.79
13	Transmission and Distribution (T & D) system Loss (%)	11.87	11.96	0.76
14	Total Number of consumers of BPDB (Nos.)	2,801,951	3,046,257	8.72
15	Total Population in the Country (Million)	164.00	165.60	0.98
16	Per capita generation (kWh) (grid)	382	426	11.50
17	Per capita Consumption (kWh) (grid)	336	375	11.49
18	Net profit/(loss) (MTk)	(83,540)	(1,746)	-97.91

**Note :** Maximum Demand is shown as per revisiting power system master plan 2016.

## 400 MW Bibiyana-3 Power Plant





# Chapter 1

## *Overview on BPPF Operation*



# GENERATION

## Electricity Demand

Demand of electricity is increasing rapidly due to enhanced economic activities in the country with sustained GDP growth. At present, growth of demand is about 10% which is expected to be more in coming years.

## Load Factor and Load Management

Demand of electricity in the system varies throughout the day and night. The maximum demand is occurred during 5 pm to 11 pm which is termed as 'peak hour' and other part of the time is termed as off-peak hour. The extent of this variation is measured in terms of Load Factor, which is the ratio of average and maximum demand. For economic reasons, it is desirable to have a higher Load Factor, as this would permit better utilization of plant capacity. Moreover, the cost of energy supply during peak hour is higher, because some relatively costlier power plants are required to put in operation during the peak hour. For these reasons, load management is essential throughout the year for better capacity utilization of power plants and minimum generation cost.

There are some loads in the system which can be avoided or minimized by consumers during peak hour. In order to shift these kinds of loads from peak hour to off-peak hour by introducing some mechanism is termed as load management. From the view point of load management, (i) two-part tariff is introduced for 3-phase consumers (LT & HT) where peak hour price is much higher than the off-peak hour that motivates consumers to avoid or use less in the peak hour; (ii) Market & Shopping malls are kept close after 8.00 PM; (iii) holiday staggering is implemented to keep industries, markets & shopping malls close on area basis holiday marked day; (iv) consumers are encouraged to use energy efficient bulb, electric appliances, pumps, etc; (v) consumers are encouraged to keep their air-conditioner's temperature at 25 degree and so on. These measures also minimize load-shedding across the country.

## Generation

### Generation Capacity

Total installed capacity was 18,961 MW which includes 6,503 MW IPP/SIPP, 1,540 MW Rental Power Plant, 251 MW under REB (for PBS) and 1,160 MW Power

Import from India. The maximum peak generation was 12,893 MW which was 17.66% higher than that in the previous year. The Generation Capacity mix is shown below:

### Installed Capacity by Plant & Fuel Type

By type of plant		By type of fuel	
Hydro	230 MW (1.21%)	Hydro	230 MW (1.21%)
Steam Turbine	2,344 MW (12.36%)	Gas	10,877 MW (57.37%)
Gas Turbine	1,607 MW (8.48%)	Furnace Oil	4,770 MW (25.16%)
Combined Cycle	6,364 MW (33.56%)	Diesel	1,370 MW (7.23%)
Power Import	1,160 MW (6.12%)	Power Import	1,160 MW (6.12%)
Reciprocating Engine	7,226 MW (38.11%)	Coal	524 MW (2.76%)
Solar PV	30 MW (0.16%)	Solar PV	30 MW (0.16%)
<b>Total</b>	<b>18,961 MW (100%)</b>	<b>Total</b>	<b>18,961 MW (100%)</b>



## Energy Generation

Total net energy generation in FY 2019 was 70,533 GWh, which was about 12.53% higher than previous year's net generation of 62,678 GWh. Net energy generation in the public sector was 35,107 GWh and 28,640 GWh in the private sector (including REB). Another 6,786 GWh was imported from India through the interconnection in Bheramara and Tripura.

Total net energy generated in public and private sector power plants by type of fuel are as follows:

Hydro	725 (1.03%)
Natural Gas	48,306 (68.49%)
Furnace Oil	11,426 (16.20%)
Diesel	2,022 (2.87%)
Coal	1,230 (1.74%)
Renewable Energy	39 (0.05%)
Power Import	6,786 (9.62%)
<b>Total</b>	<b>70,533 (GWh) (100%)</b>

## Plant Efficiency and Maintenance

The overall Thermal efficiency (Net) of the public-sector power plants in FY 2019 was 38.4%. Previous year's it was 37.58 %.

Below the list of major power plants were under maintenance in the year under review:

### Maintenance of Power Plants In FY 2018-19

Sl. No.	Name of Power Station	Present Capacity (MW)	Type of Maintenance (HGPI/MI/OH)	Duration of Maintenance	
				Starting Date	Completion Date
1.	Fenchuganj Unit 1 (Steam Turbine)	71 MW	OH	11/10/2018	Running
2.	Baghabari 171 Unit 2	100 MW	OH	27/10/2017	09/11/2018
3.	Shikolbaha 150 GT	150 MW	OH	01/02/2019	03/19/2019

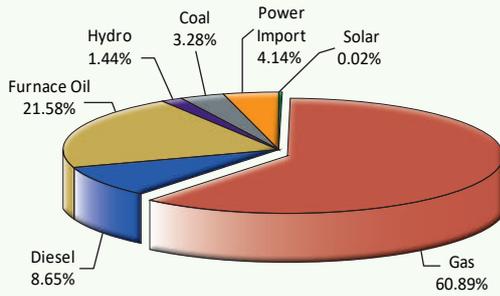


Signing of MoU between BPDB and GE for establishing 3600 MW LNG based Power Plant at Maheshkhali.



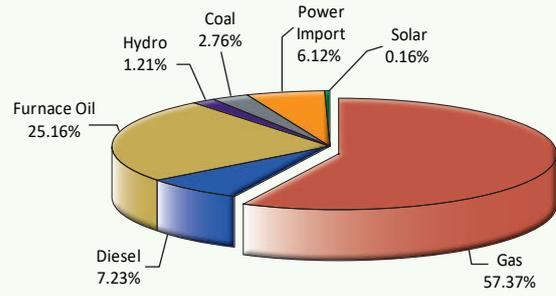
## Installed Capacity (National) By Fuel Type With Comparison

**(FY 2017-18)**



**Total : 15,953 MW**

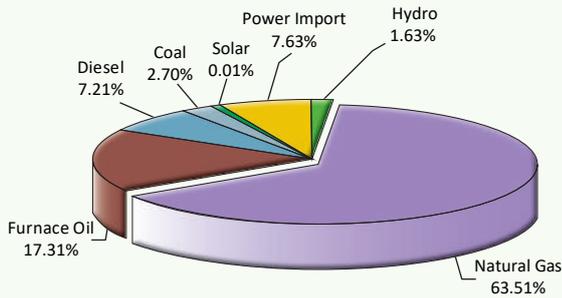
**(FY 2018-19)**



**Total : 18,961 MW**

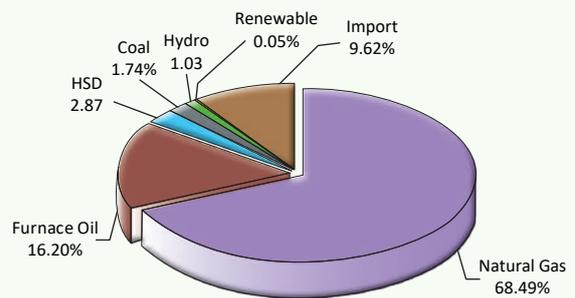
## Total Net Generation (National) By Fuel

**(FY 2017-18)**



**Total Net Generation : 62,678 MkWh**

**(FY 2018-19)**



**Total Net Generation : 70,533 MkWh**



## TRANSMISSION

### Transmission Lines

During fiscal year 2018-19, very significant transmission components have been added to the system because of the completion of different project works. Transmission line length (ckt. km) has enlarged by 4.53% than that of previous year. The line details are as below:

S.N.	Transmission Line	Conductor Name and Size	Length (Circuit km.)
1.	Bheramara HVDC- Ishwardi 230kV double circuit transmission line	ACSR Quad Mallard 4x795 MCM	25.60 Ckt. Km.
2.	Double circuit LILO of Hasnabad-Aminbazar 230kV transmission line at Keraniganj substation	Twin Mallard 2x795 MCM	1.57 Ckt. Km.
3.	Sikalbaha-Anowara 230kV double circuit transmission line	Twin Mallard 2x795 MCM	34.56 Ckt. Km.
4.	Double circuit LILO of Hasnabad-Meghnaghat 230kV transmission line at Shyampur substation	Twin Mallard 2x795 MCM	0.46 Ckt. Km.
5.	T-connection from Dohazari-Cox's Bazar 132kV transmission line to Matarbari substation	Grosbeak 636 MCM	18.1 Ckt. Km.
6.	Double circuit LILO of Feni-Hathazari 132kV transmission line at Baroirhat substation	Grosbeak 636 MCM	12.588 Ckt. Km.
7.	Brahmanbaria-Narsingdi 132kV double circuit transmission line	Grosbeak 636 MCM	109.6 Ckt. Km.
8.	Saidpur-Jaldhaka 132kV double circuit transmission line	Grosbeak 636 MCM	59.902 Ckt. Km.
9.	RNPP-Ishurdi 132kV double circuit transmission line	Grosbeak 636 MCM	14.00 Ckt. Km.
10.	Confedence PP – Bogura(N) 132kV double circuit transmission line	Grosbeak 636 MCM	15.7 Ckt. Km.
11.	Single Circuit LILO of Goalpara-Bagerhat 132kV transmission at Labanchora Orion 105MW Power Plant	Grosbeak 636 MCM	12.3 Ckt. Km.
12.	Mymensingh-Bhaluka 132kV double circuit transmission line	Grosbeak 636 MCM	86 Ckt. Km.
13.	Double circuit LILO of Bogura-Palashbari 132kV transmission line at Mahasthangarh Substation	Grosbeak 636 MCM	1.36 Ckt. Km.
14.	Modhumati 100MW Power Plant – Gopalganj 132kV single circuit transmission line	Grosbeak 636 MCM	14.6 Ckt. Km.
15.	Jashore-Benapole 132kV double circuit transmission line	Grosbeak 636 MCM	60.936 Ckt. Km.
16.	Madaripur-Shariatpur 132kV double circuit transmission line	Grosbeak 636 MCM	44 Ckt. Km.
17.	Double circuit LILO of Shyampur(Old) -Haripur 132kV transmission line at Shyampur substation	Grosbeak 636 MCM	0.792 Ckt. Km.
<b>Total</b>			<b>512.068 ckt.km</b>

Total length of 230 kV transmission line increased to 3407 circuit km from the previous year of 3343 circuit km. The total length of 132 kV transmission line increased to 7545 circuit km from the previous year of 7082 circuit km.



## Grid Sub-stations

During fiscal year 2018-19, very significant transmission components have been added to the system because of the completion of different project works. The transformer capacity at the end of year 2018-19 has enlarged by 13.57% at difference voltage level. The substations capacity details are as below:

### New Sub-stations

S.N.	Name of Sub-station	Transformer Capacity
1.	Bheramara 2nd HVDC BtB Station	1x500 MW
2.	Shyampur 230/132kV	2x225/300 MVA
3.	Sikalbaha 230/132kV	2x300 MVA
4.	Barishal(N) 132/33kV	2x80/120 MVA
5.	Baroirhat 132/33kV	2x50/75 MVA
6.	Bhaluka 132/33kV	2x80/120 MVA
7.	Benapole 132/33kV	2x50/75 MVA
8.	BMPIL 132/33kV (Private)	1x50/75 MVA
9.	Jaldhaka 132/33kV	2x50/75 MVA
10.	Mahastanghar 132/33kV	2x80/120 MVA
11.	Matarbari 132/33kV	2x25/41 MVA
12.	Rangamati 132/33kV	2x25/41 MVA
13.	Shariatpur 132/33kV	2x80/120 MVA

### Augmentation of Existing Sub-station Capacity

S.N.	Name of Sub-station	Augmentation Capacity
1.	Kaliakoir 400/230kV	520 MVA
2.	Khulna (S) 230/132kV	300 MVA
3.	Baroaulia 132/33kV	112 MVA
4.	Chandraghona 132/33kV	21 MVA
5.	Chapai Nawabganj 132/33kV	110 MVA
6.	Daudkandi 132/33kV	75 MVA
7.	Dhamrai 132/33kV	75 MVA
8.	Dhanmondi 132/33kV	90 MVA
9.	Feni 132/33kV	90 MVA
10.	Hathazari 132/33kV	37 MVA
11.	Ishurdi 132/33kV	35 MVA
12.	Jamalpur 132/33kV	89 MVA
13.	Juldah 132/33kV	18 MVA
14.	Kishoreganj 132/33kV	84.6 MVA
15.	Kodda 132/33kV	75 MVA
16.	Kushtia 132/33kV	45 MVA
17.	Lalmonirhat 132/33kV	55 MVA
18.	Madunaghat 132/33kV	46 MVA
19.	Mirpur 132/33kV	70 MVA
20.	Munshiganj 132/33kV	90 MVA
21.	Natore 132/33kV	34 MVA
22.	New Tongi 132/33kV	90 MVA



S.N.	Name of Sub-station	Augmentation Capacity
23.	Pabna 132/33kV	82 MVA
24.	Palashbari 132/33kV	35 MVA
25.	Panchagarh 132/33kV	82 MVA
26.	Rajshahi 132/33kV	45 MVA
27.	Ramganj 132/33kV	75 MVA
28.	Rangpur 132/33kV	14.4 MVA
29.	Rooppur 132/33kV	41 MVA
30.	Sherpur 132/33kV	75 MVA
31.	Sirajganj 132/33kV	34 MVA
32.	Tangail 132/33kV	41 MVA
33.	Thakurgaon 132/33kV	34 MVA

### Transmission Line Re-conductoring

S.N.	Name of Transmission Line	Quantity (Ckt. Km.)
1.	Madunaghat-Sikalbaha 132kV single Circuit Transmission Line (New Conductor: ACCC Grosbeak)	16.5 Ckt. Km.
2.	Juldah-Halishahar 132kV single Circuit Transmission Line (New Conductor: ACCC Grosbeak)	8.0 Ckt. Km.
3.	Sikalbaha-Dohazari 132kV Double Circuit Transmission Line (New Conductor: ACCC Grosbeak)	64 Ckt. Km.
4.	Bogura-Naogaon 132kV Double Circuit Transmission Line (New Conductor: ACCC Grosbeak)	91.778 Ckt. Km.
5.	Ashuganj-Kishoreganj 132 kV Double Circuit Transmission Line (New Conductor: ACCC Grosbeak)	52.489 Ckt. Km.
6.	Ashuganj-Ghorasal 132kV Double Circuit Transmission Line (New Conductor: ACCC Grosbeak)	90.64 Ckt. Km.

### Transmission Summary

S.N.	Transmission Line Type	Circuit km
1.	400 kV Transmission Line	697.76
2.	230 kV Transmission Line	3,406.69
3.	132 kV Transmission Line	7,545.5
	<b>Total Transmission Line</b>	<b>11,649.95</b>
	Transmission Loss (%)	2.75 %

S. N.	Sub-station Type	No of Sub-station	Capacity (MVA)
1.	400 kV HVDC Sub-station (MVA)	1	1,111
2.	400/230 kV Sub-station Capacity (MVA)	4	3,770
3.	400/132 kV Sub-station Capacity (MVA)	1	650
4.	230/132 kV Sub-station Capacity (MVA)	24	12,475
5.	132/33 kV Sub-station Capacity (MVA)	135	23,640
	<b>Total</b>	<b>165</b>	<b>41,646</b>



## Grid System Operation

In FY 2019, total duration of Power interruption in the grid network was 79 hours 27 minutes.

### INTERRUPTION OF NATIONAL GRID FOR FY 2018 & FY 2019

S.N.	Type of Fault	Total Number of Faults		Total Duration	
		FY 2018	FY 2019	FY 2018 Hours/ Minutes	FY 2019 Hours/ Minutes
1.	Partial Power failure due to trouble in generation	227	171	1/56	0/53
2.	Partial Power failure due to trouble in grid S/S Equipment	46	55	64/18	45/43
3.	Partial Power failure due to fault in transmission line	07	17	10/13	31/37
4.	Partial Power failure due to the lightning on transmission line/Thunder Storm	00	00	00/00	00/00
5.	Partial Grid failure	07	02	6/19	1/14
6.	Total Grid failure	00	00	00/00	00/00
<b>Total</b>		<b>287</b>	<b>245</b>	<b>82/46</b>	<b>79/27</b>



Inauguration of eight Power Plants, two Grid Sub-stations and 100% electrification of 21 Upazila by Hon'ble Prime Minister Sheikh Hasina through video conference from Ganabhaban.



## BULK ELECTRICITY SALES BY BPDB

BPDB has been functioning as a single buyer in the power market of Bangladesh. BPDB purchases electricity from the public and private generation entities and sales bulk electricity to all the distribution utilities including its four distribution zones. Distribution entities purchases electricity from BPDB are as follows:

- ◆ Dhaka Power Distribution Company (DPDC)
- ◆ Dhaka Electric Supply Company (DESCO)
- ◆ West Zone Power Distribution Company Limited (WZPDCL)
- ◆ Rural Electrification Board (REB)
- ◆ Northern Electricity Supply Company Ltd (NESCO)
- ◆ BPDB's Four distribution zone



A meeting on Implementation of GIS Based Distribution Network System chaired by Mr. Md. Azharul Islam, Member Planning and Development, BPDB.

In FY 2018-19 bulk electricity sales to the distribution utilities increased to 66,547 MWh from 59,221 MWh which is 12.37% higher than the previous year. Total

revenue collection also increased to 3,32,294 MTK from 2,93,725 MTK which is 13.13% higher than the previous year.

## Utility Wise Billing & Collection Statistics of BPDB

Name of Utility	Billed Amount (Million Tk)		Collected Amount (Million Tk)		Accounts Receivable (Million Tk)			Coll/Bill Ratio (%)	
	2017-18	2018-19	2017-18	2018-19	2017-18	2018-19	% increase over the previous year	2017-18	2018-19
BPDB's Dist. Zones(in/c PS & GK)	65,987	73,365	66,078	73,473	13,440	14,284	6.28	100.14	100.15
WZPDCL	15,256	16,891	15,097	16,731	1,521	1,681	10.52	98.96	99.05
DPDC	52,330	55,936	52,482	60,646	56,729	52,025	-5.93	100.29	108.42
DESCO	31,319	33,998	31,096	33,755	3,031	3,275	8.04	99.29	95.93
REB/PBS's	114,727	132,799	112,700	127,394	22,161	27,571	24.41	98.23	114.76
NESCO	17,512	17,686	16,272	20,296	5,699	3,080	-45.95	92.92	100.49
<b>TOTAL</b>	<b>297,130</b>	<b>330,676</b>	<b>293,725</b>	<b>332,294</b>	<b>102,581</b>	<b>101,916</b>	<b>0.75</b>	<b>98.85</b>	<b>100.49</b>

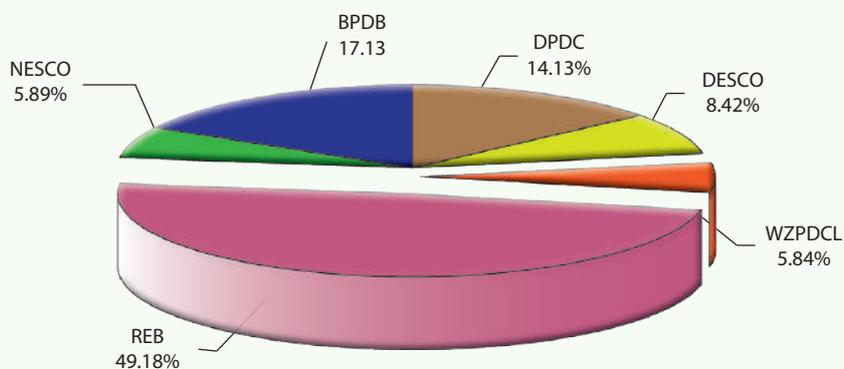


## Utility wise Bulk Energy Sales by BPDB As Single Buyer

In GWh

Year	BPDB zones	NESCO	DPDC	DESCO	WZPDCL	REB	Total
2004-05	5,993		5,135	1,843	389	7,039	20,398
2005-06	5,180		5,316	2,030	1,373	8,062	21,961
2006-07	5,305		5,243	2,191	1,282	8,040	22,061
2007-08	5,626		5,204	2,574	1,375	8,655	23,433
2008-09	6,042		5,449	2,743	1,491	9,032	24,757
2009-10	6,744		5,749	2,934	1,673	9,525	26,626
2010-11	7,338		5,964	3,123	1,843	10,359	28,627
2011-12	8,136		6,340	3,401	2,029	12,537	32,443
2012-13	8,737		6,593	3,726	2,187	14,222	35,466
2013-14	9,597		7,038	4,067	2,394	16,161	39,256
2014-15	10,486		7,402	4,320	2,574	17,835	42,616
2015-16	12,159		8,047	4,795	2,843	21,051	48,895
2016-17	11,024	2,486	8,424	4,980	3,013	23,989	53,916
2017-18	10,537	3,645	8,819	5,248	3,208	27,765	59,221
2018-19	11,400	3,917	9,404	5,604	3,490	32,730	66,547

### Utility Wise Bulk Sales (FY 2018-19)



**Total Sales : 66,547 MkWh**



## DISTRIBUTION

BPDB has been functioning as a retail seller of electricity within its following Four distributions zones:

- ✦ Distribution zone, Chattogram
- ✦ Distribution zone, Cumilla
- ✦ Distribution zone, Mymensing
- ✦ Distribution zone, Sylhet

### Distribution network

In the FY 2018-19, BPDB has extended about 247 km distribution lines as a part of continuous improvement of the system. BPDB covers electrification in 195 thanas/upazillas and 4,646 villages within its Four distribution zones up to the end of this fiscal year. The distribution networks possess:

33 kV line	3,654 km
11 kV line	10,742 km
0.4 kV line	18,592 km
33/11 kV Sub-station	133 nos.
<i>Total capacity of 33/11 kV Sub-station</i>	<i>3082/3978 MVA</i>

### Number of consumers

During this fiscal year, BPDB has provided total 2,44,306 new connections and the total number of consumers has been increased to 30,46,257 and the annual increment was 8.72%.

### Distribution system loss

BPDB's distribution zones imported 11,400 MkWh energy from the single buyer for retail sale in its four zones and sold 10,573 MkWh to the consumers in the FY 2019 that results 7.26% distribution system loss which was 8.00% in FY 2018.

### Customer's service & satisfaction

BPDB has introduced following services for customer satisfaction:

- Computerized billing and
- Remote billing system
- Easy Bill Pay
- One stop service
- Online application
- Pre-payment metering
- Supervisory Control And Data Acquisition (SCADA) System
- Demand Side Management

### Computerized and Remote Billing system

BPDB has brought sent percent consumers in computerized billing system in its four distribution zones. Each computerized bill shows present month's billing amount along with previous month's payment and arrear status for consumers' acknowledgement. It improves billing system, revenue collection, decreases system loss and ensures better service to the consumers than the previous manual one. BPDB also brought remote meter reading system feature for large consumer. In this feature meter reading of consumer automatically update in billing server and generate bill for consumer.

### Easy bill pay

BPDB has introduced easy bill pay system through mobile phone in its Four distribution zones. Consumers can pay their electricity bill through prescribed mobile phone operator round the clock even in holidays. Zone wise mobile phone operators are as follows:

Name of Zone	Mobile Phone Operator
Chattogram	Grameen phone
Mymensingh	Banglalink
Cumilla	Robi
Sylhet	Grameen phone

### One stop service

BPDB has introduced one stop service in each S&D division/ESU in order to provide hassle free service for its consumers. Every S&D division/ESU has one designated desk for one stop service. Any consumer can lodge his complain on that desk and the officer-in-charge is empowered to do all necessary things in order to address the complain.



## Online application

BPDB has introduced on line application facilities for new connection on test basis in distribution zone, Chittagong. Any applicant can apply round the clock for new connection of his house, shop, industry, etc. from the website of distribution zone, BPDB, Chittagong. BPDB also has a plan to develop similar facilities in its other distribution zones depending on the responsiveness of consumers of Chittagong zonal area.

## Pre-paid Metering

The conventional method of electricity billing involves a person from the distribution unit reading the number of units of electricity consumed in the energy meter, conveying this information to the distribution unit and then preparing the bill according to the units consumed for a fixed amount of time. This can prove quite tedious as it involves various tasks like reading, then preparing the bill. Still accuracy cannot be guaranteed as there can be errors in human reading. Even though digital meters are being replacing conventional electromechanical meters and provide much accurate readings, still the problem of deliberately making a false reading can exist. Despite this, the task of billing for every consumer is a time consuming job for the distribution grid. Also the consumer can deliberately consume more amount of power than required and still refrain from paying the bill and nothing can be done to severe the electric power supply.

To eliminate all these problems, the most convenient method is making the whole system prepaid similar to a mobile phone recharge.

### Advantages of pre-payment meters

1. Prepaid energy meter comes with the advantage of managing energy consumption. When customers pay for energy, they can afford at that particular moment, they are able to limit their usage so that it lasts for the period they want.
2. The meters make it possible for customers to tell when they are misusing energy; hence they can easily come up with measures that cut on their consumption. They make it even easier for homeowners to tell how energy efficient new and existing appliances are so they can make any necessary changes.
3. The prepaid option saves customers from unexpected high bills. This is because they only use what they have paid for and they therefore do not have to worry about the bills at the end of the month.
4. The prepaid meters save customers from estimate bills that can end up overcharging them. This is because the prepayment meters do not require any meter reading for customers to be billed.
5. Customers can still take advantage of peak and off-peak tariff rates if they have a compatible prepayment meter.
6. Customers can enjoy 1% rebate on energy charge as per existing tariff order.

### Third Party Vending System: *Vending at anytime, anywhere.*

In traditional system, prepaid customers have to go to particular Utility Vending Station (UVS) physically within office hour i.e. 10am to 4pm to purchase prepaid energy Token. Customer pays cash money to vending cash counter and receives a printed copy of prepaid energy token or a smart card which is usable only for that particular prepaid meter number. Then customers come back to home and finally insert the printed token in keypad meter by pressing keys. Meter accepts only valid token and displays the recharged amount. Unified prepayment System was generating prepaid energy token only in vending Stations. This system requires huge numbers of vending stations to deal with vast number of consumers which needs large manpower for operation. The system used to operate huge amount of cash in the vending station every day. Vending was not possible without going to Vending Station and after office hours.

BPDB introduced Third Party Vending System to make the prepaid metering vending more secure, consumer friendly and cost effective. To attain this goal, BPDB appointed **Grameenphone & Robi** who work to provide vending service to the prepaid meter consumer of BPDB through Mobile USSD and mobile Apps. Recently, the largest MFS service provider **bKash** has also been approved by board for this service at the same manner.

The main objectives of 3<sup>rd</sup> Party Vending System are:

- ◆ Reduce costing for setting up huge number of vending stations;
- ◆ Improve customer services;
- ◆ Make the system easy and transparent;
- ◆ Improve and secure cash flow;
- ◆ Modernize & Digitalize of Pre-paid Metering System;
- ◆ Make the system sustainable;
- ◆ Make the system user friendly;
- ◆ Vending at 24x7 manner.



BPDB installed 1.1 million prepaid meters out of its 2.8 million existing customers. Customers are getting privilege of vending at anytime and from any place through third party vending service. Currently, BPDB runs three different prepayment metering systems named Unified Prepayment Metering System, STS Prepaid System and Smart Metering System. BPDB plans to go for smart meters through Advanced Metering Infrastructure (AMI) within this financial year. On the other hand, Government approved open market policy to encourage the customers to use prepaid meters of their choice and convenience. Directorate of Prepaid Metering System, BPDB, Dhaka is responsible for implementation of AMI and provide uninterrupted customer service for the existing customers of prepaid meters.

## SCADA

Supervisory Control And Data Acquisition (SCADA) has started functioning within the Four zones of BPDB (Chattogram, Sylhet, Mymensingh & Cumilla) for system control and data acquisition of the distribution system/networks under it from one point of each zone through microwave link. Provided that 34 sub-stations within Chattogram zone, 18 sub-stations within Sylhet zone, 17 sub-stations within Mymensingh zone, 10 sub-stations within Cumilla zone are connected under the SCADA of respective zone. BPDB also has a plan to set up one SCADA in Dhaka to monitor/control all SCADA of BPDB centrally. Key functions of SCADA are:

- Supervising/Monitoring the networks under it continuously on its computer monitors round the clock and controls the power supply of the networks from the supervisors desk as and when necessary in a systematic manner as directed by the authority concerned.
- Data acquisition and recording of power flow/supply status through each circuit of the entire networks on hourly basis round the clock for reporting to authorities concerned and analyzing demand, power factor & other necessary elements of each circuit for system management within the SCADA in a smart manner.
- Preparing and reporting daily and monthly power supply, demand, load shedding, line shut-down, etc. of each circuit of the networks under it to authorities concerned for system planning.
- Preparing power supply, demand, load shedding, line shut-down, etc. report for any specified span of time as wanted by the authorities concerned for system planning.
- Load management matching with the power generation as per instructions of NLDC or authority concerned in order to keep the overall system healthy.
- Appraising all important information regarding system to the authorities concerned as and when required.

## Demand Side Management

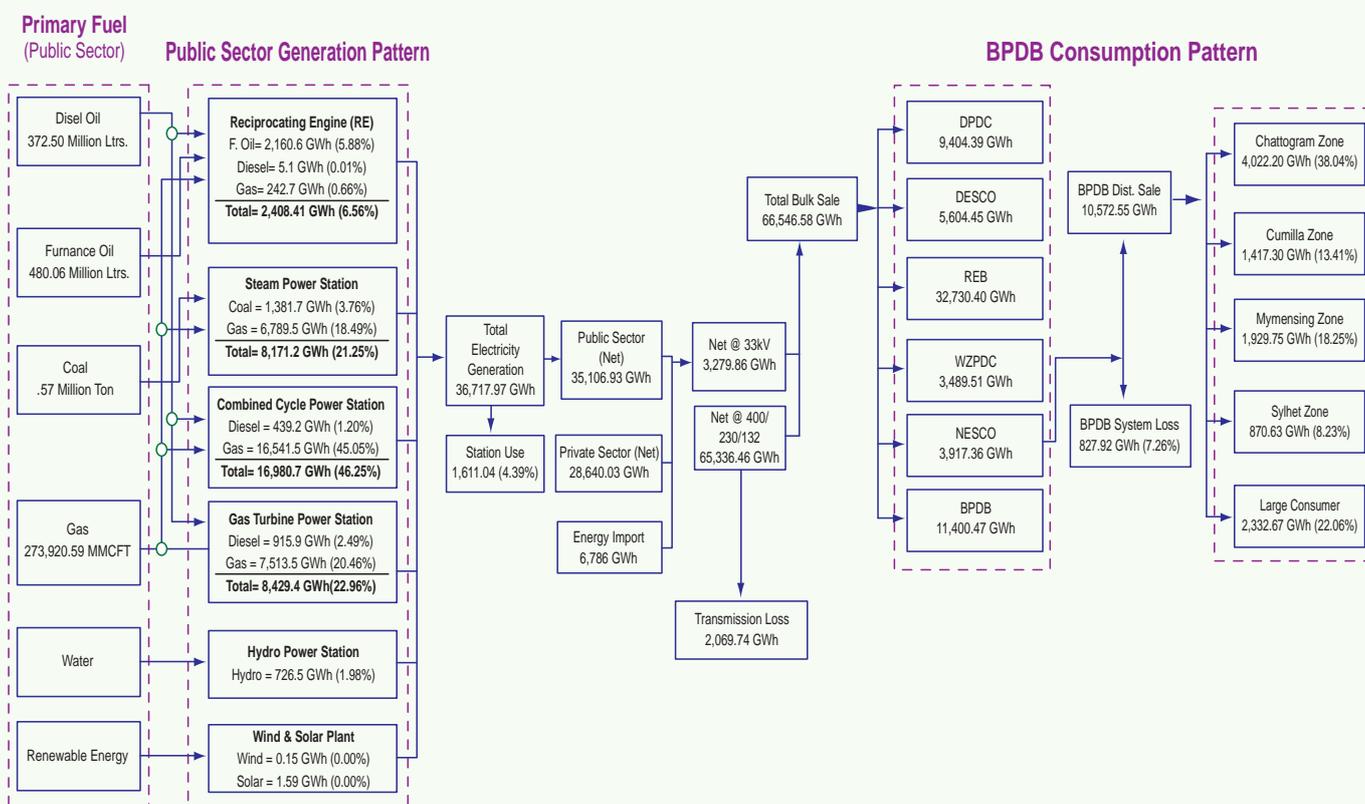
Demand-side management (DSM) means modifying energy use to maximize energy efficiency. DSM tries to get maximum benefit out of existing energy generation. DSM involves changing energy use habits of consumers and encouraging them for using energy efficient appliances, equipment etc. at their premises.

To keep load shedding at a minimum level, BPDB has taken a number of steps for demand side management, which are as follows:

- To shift irrigation load from peak hour to off peak hour, BPDB has started campaign through electronic and print media. In the last few years, it is estimated that about 500 MW irrigation load was shifted from peak hour to off peak hour.
- BPDB has taken motivational programs to enhance awareness of the consumers during peak hours. Consumers are being urged through electronic and print media to be rational and economical in electricity use during peak hour by switching off unnecessary loads like extra lighting, ironing, pumps, air conditioners, welding machines etc.
- As part of demand side management program, BPDB has taken steps to use CFL in BPDB's offices and also trying to motivate consumers to use Energy efficient lamps.
- Industries operating in two shifts are being requested not to operate during peak hours.
- Holiday staggering for industries has been implemented, which contributes about 200 MW load shifting.
- Load Management Committee has been formed in every distribution zone/circle/division to monitor the proper load distribution during irrigation.
- As part of DSM, BPDB is monitoring shop/market closure time at 8 p.m. It is estimated that this measure contributes about 400 MW load shifting from peak hour, there by reduces load shedding.



## ENERGY FLOW CHART (FY 2018-19)





## Chapter 2

# *Power Sector Development Plan*



## POWER SECTOR OF BANGLADESH

### Power Sector Scenario

Electricity plays the most basic role in the economic growth through sustainable structure as well as poverty eradication and security of any country. Reliable electricity supply is a vital issue for the world today. Future economic growth crucially depends on the long-term availability of electricity, which are affordable, available and environmentally friendly. Security, climate change, and public health are closely interrelated with electricity. In line with this aspect, Bangladesh Government designed an extensive power generation plan to create sustainable growth of power sector and for overall development of the country economy.

Present installed generation capacity in public, private & import sector is 18,961 MW as on June 2019. Out of this, public sector possesses 9,507 MW (50%), private sector 8,294 MW (44%) & import 1,160MW (6%). Electricity demand is increasing whereas the available generation also increases against with demand. In the public sector, a number of generation units have become very old and has been operating at a reduced capacity. Moreover, most of the existing power plants are gas based. Due to shortage of gas supply, some power plants are unable to reach their usual generation capability. Up to date, maximum generation achieved is 12,893 MW on May 29, 2019. At present, 94% (including renewable energy) of the total population has access to electricity and per capita generation has increased to 510 kWh (including captive and renewable energy). Now Bangladesh has shown implausible achievement in power sector. The target of the government has been implemented successfully and has even been able to achieve the higher level of economic growth.

### Long Term Power Generation Plan

The PSMP is updated after each and every 5 years due to change of planning perspective. The updated PSMP 2016 has been compiled for the period from 2016 to 2041; including the strategy of diversifying primary fuel supply. Under the plan, generation capacity requirement in 2021 will be 21,000 MW against the demand of 14,500 MW and in 2030 generation capacity will be 31,000 MW against the demand of 27,400 MW and in 2041 generation capacity will be 57,000 MW against the demand of 51,000 MW. Around 35% power will be generated from coal, 35% will be generated from Gas/LNG and 16% will be from power import, 12% from nuclear and 2% from others including renewable energy.



## Implementation Status of Power Generation Plan up to 2021

Till now, generation from gas is much higher compared to other fuels like hydro, coal etc. For this reason, government has taken strategic decision to diversify primary fuel supply for power generation. In line with this strategy, a sustainable long-term power development plan has been prepared for mitigation the growing demand to reach the generation capacity 24,000 MW by 2021. Under this plan, the coal (indigenous or imported), imported power from neighboring countries, the limited domestic gas, nuclear power and LNG, renewable will be used for power generation. Government has also taken energy efficiency and conservation program for reduction of the growing power demand.

Revised generation expansion plan updated in July 2019 targeting about 17,000 MW generation addition from 2019 to 2023 is provided in a table below:

### Year wise generation projects to be completed (From 2019 to 2023)

Year	2019 (MW)	2020 (MW)	2021 (MW)	2022 (MW)	2023 (MW)	Total
Public	1,463	1,953	2,217	870	2,890	9,393
Private	2,090	553	0	1,942	1,490	6,075
Power Import	0	0	340	1,496	0	1,836
<b>Total</b>	<b>3,553</b>	<b>2,506</b>	<b>2,557</b>	<b>4,308</b>	<b>4,380</b>	<b>17,304</b>

## Under Construction & Tendering Process Projects

Under this above plan, 50 projects of capacity 15,151 MW are now under construction stage, 15 projects of capacity 4,159 MW are now in the singing process (LOI & NOA are given) and 9 projects of capacity 1,510 MW are now in tendering process. The under construction, singing (LOI & NOA are given) and tendering process projects will be implemented in phase during the period 2019-2027.

### Under Construction Projects

S.N.	Description	No. of Projects	Capacity (MW)
01.	Public Sector	16	8,745
02.	IPP	34	6,406
	<b>Total</b>	<b>50</b>	<b>15,151</b>

### Projects under singing process (LOI & NOA are given)

S.N.	Description	Power Plant No.	Installed Capacity (MW)
01.	Public Sector	0	0
02.	Private	15	4,159
	<b>Total</b>	<b>15</b>	<b>4,159</b>

### Projects under Tendering Process

S.N.	Description	Power Plant No.	Installed Capacity (MW)
01.	Public Sector	2	1,160
02.	Private	7	350
	<b>Total</b>	<b>9</b>	<b>1,510</b>



## Transmission & Distribution System

Transmission of generated power from power plants to the load centers and then distribution to the end users must be ensured to achieve the real benefits out of above generation expansion program. At present, a total 11,650 km (Circuit Km) transmission lines and 5,24,000 Km distribution lines have been connected to power system network.

Bangladesh-India Regional Grid first Interconnection project has already been established and now 1,160 MW power is being imported through this line. 100 MW power is being imported Tripura, India to Cumilla from

2016, another 60 MW power is being imported from same point from July/2017 and by bohorampur-bheramara line another 500 MW is imported from September, 2018. BPDB Planned 340 MW power will be imported from the Tripura by 2021. Another 1496 MW electricity plan to import from Jharkhand, India by 2022.

To strengthen transmission & distribution system, plans are being prepared to construct 18,126 ckt km transmission line, 90,382 MVA capacity-based grid sub-station, 497 thousand km new distribution line and related distribution substation by 2021.

## Annual Development Program for BPDB's Own Generation & Distribution Projects

A total of 16 generations and 10 distributions were undertaken in the Revised Annual Development Program (RADP) in the FY2018-19. Original Allocation, Revised Allocation & Expenditure incurred (provisional) in the FY2018-19 are shown in the following table.

(Taka in lakh)

Sub-sector	Original ADP FY 2018-19			Revised ADP FY 2018-19			Expenditure incurred FY 2018-19		
	Total	Local	Foreign	Total	Local	Foreign	Total	Local	Foreign
<b>Generation</b>	319666	147532	172134	199105	93120	105985	176899.55	92901.14	83998.41
<b>Transmission</b>	-	-	-	-	-	-	-	-	-
<b>Distribution</b>	44160	38369	5791	165674	157982	7692	165600.31	157903.36	7696.95
<b>TAPP</b>	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>363826</b>	<b>185901</b>	<b>177925</b>	<b>364779</b>	<b>251102</b>	<b>113677</b>	<b>342499.86</b>	<b>250804.5</b>	<b>91695.36</b>



Chairman, BPDB Engr. Khaled Mahmood visiting Bibiyana-3 and Bibiyana South Power Plant.



## Year wise commissioning status of generation projects

### Projects commissioned in 2010

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Shikalbaha 150 MW	150	BPDB	Gas	18.08.2010
2.	Siddhirganj 2x120 MW GT	105	EGCB	Gas	14.10.2011
<b>Sub Total (Public)</b>		<b>255</b>			
<b>Private Sector</b>					
3.	Shikalbaha 55 MW Rental Power Plant	55	Rental (BPDB)	HFO	06.05.2010
4.	Ashuganj Rental Power Plant	55	Rental (BPDB)	Gas	07.04.2010
5.	Thakurgaon, 3 Years Rental	50	Rental (BPDB)	HFO	02.08.2010
6.	Ghorashal ( <b>Sponsor: Aggreko</b> )	145	Rental (BPDB)	Gas	10.08.2010 23.08.2010
7.	Khulna ( <b>Sponsor: Aggreko</b> )	55	Rental (BPDB)	Diesel	10.08.2010
8.	Pagla, Narayaganj ( <b>Sponsor: DPAPGL</b> )	50	Rental (BPDB)	Diesel	24.11.2010
9.	Bheramara 3 Years Rental	110	Rental (BPDB)	Diesel	31.12.2010
<b>Sub Total (Private)</b>		<b>520</b>			
<b>Total</b>		<b>775</b>			

### Projects commissioned in 2011

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Ashuganj 50 MW Power Plant	53	APSCCL	Gas	30.04.2011
2.	Baghabari 50 MW Peaking PP	52	BPDB	HFO	29.08.2011
3.	Fenchuganj 90 MW CC	104	BPDB	Gas	26.10.2011
4.	Bera 70 MW Peaking PP	71	BPDB	HFO	28.10.2011
5.	Titas, Doudkandi 50 MW Peaking PP	52	BPDB	HFO	29.10.2011
6.	Siddhirganj 2x120 MW Peaking PP	105	EGCB	Gas	December, 2011
7.	Faridpur 50 MW Peaking PP	54	BPDB	HFO	November, 2011
8.	Gopalganj 100 MW Peaking PP	109	BPDB	HFO	29.09.2011
9.	Sangu, Dohazari 100 MW Peaking PP	102	BPDB	HFO	30.12.2011
10.	Hathazari 100 MW Peaking PP	98	BPDB	HFO	23.12.2011
<b>Sub Total (Public)</b>		<b>800</b>			



Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Private Sector</b>					
1.	Siddhirganj ( <b>Sponsor: Desh Energy</b> )	100	Rental (BPDB)	Diesel	17.02.2011
2.	B Baria ( <b>Sponsor: Aggreko</b> )	70	Rental (BPDB)	Gas	06.03.2011
3.	Madanganj ( <b>Sponsor: Summit Power</b> )	102	Rental (BPDB)	HFO	01.04.2011
4.	Meghnaghat ( <b>Sponsor: IEL</b> )	100	Rental (BPDB)	HFO	08.05.2011
5.	Ghorashal ( <b>Sponsor: Max Power</b> )	78	Rental (BPDB)	Gas	27.05.2011
6.	Noapara ( <b>Sponsor: Khan Jahan Ali</b> )	40	Rental (BPDB)	HFO	28.05.2011
7.	Ashuganj ( <b>Sponsor: Aggreko</b> )	80	Rental (BPDB)	Gas	31.05.2011
8.	Khulna ( <b>Sponsor: KPCL</b> )	115	Rental (BPDB)	HFO	01.06.2011
9.	Ashuganj ( <b>Sponsor: United Power</b> )	53	Rental (BPDB)	Gas	22.06.2011
10.	Siddhirganj ( <b>Sponsor: Dutch Bangla Power</b> )	100	Rental (BPDB)	HFO	21.07.2011
11.	Noapara, Jashore (5 Years Rental)	105	Rental (BPDB)	HFO	26.08.2011
12.	Bogura 3 Years Rental ( <b>Sponsor: Energy Prima</b> )	20	Rental (BPDB)	Gas	13.11.2011
<b>Sub Total (Private)</b>		<b>963</b>			
<b>Total</b>		<b>1763</b>			

### Projects commissioned in 2012

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Sylhet 150 MW Power Plant	142	BPDB	Gas	28 March, 2012
2.	Gazipur 50 MW PP	52	RPCL	Gas/HFO	July, 2012
3.	Chandpur 150 MW CC Power Plant	163	BPDB	Gas	GT: March, 2012 CC: July 2012
4.	Sirajganj 150 MW GT	150	NWPGCL	Gas/HSD	December, 2012
5.	Santahar 50 MW Peaking Power Plant	50	BPDB	HFO	December, 2012
6.	Katakhalı 50 MW Peaking Power Plant	50	BPDB	HFO	December, 2012
<b>Sub Total (Public)</b>		<b>607</b>			
<b>Private Sector</b>					
1.	Amnura, Chapainawabganj ( <b>Sponsor: Sinha Power</b> )	50	Rental (BPDB)	HFO	13 January, 2012
2.	Fenchuganj 3 Years Rental ( <b>Sponsor: Energy Prime Ltd.</b> )	44	Rental (BPDB)	Gas	15 February, 2012
3.	Julda, Chattogram	100	Rental (BPDB)	HFO	26 March, 2012
4.	Keraniganj (Power Pack)	100	Rental (BPDB)	HFO	27 March, 2012
5.	Katakhalı, Rajshahi ( <b>Sponsor: NPSL</b> )	50	Rental (BPDB)	HFO	23 May, 2012
<b>Sub Total (Private)</b>		<b>344</b>			
<b>Total</b>		<b>951</b>			



## Projects commissioned in 2013

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Raujan 25 MW PP	25	RPCL	Gas/HFO	3 May, 2013
2.	Khulna 150 MW GT	150	NWPGCL	Gas/HSD	23 September, 2013
3.	Haripur 360 MW CCPP	412	EGCB	Gas	December, 2013
<b>Sub Total (Public)</b>		<b>587</b>			
<b>Private Sector</b>					
1.	Regional Import	500	Import		October, 2013
2.	Ashuganj 51 MW PP	51	IPP	Gas	6 December, 2013
3.	Shajanullah Power Company	25	IPP	Gas	December, 2013
<b>Sub Total (Private)</b>		<b>576</b>			
<b>Total</b>		<b>1163</b>			

## Projects commissioned in 2014

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Sirajganj 150 MW PP Conversion	68	NWPGCL	Gas/HSD	14 July, 2014
<b>Sub Total (Public)</b>		<b>68</b>			
<b>Private Sector</b>					
1.	Natore, Rajshahi 50 MW PP	52	IPP	HFO	24 January, 2014
2.	Baraka-Patenga Chattogram 50 MW PP	50	IPP	HFO	03 May, 2014
3.	Meghnaghat 300-450 MW CCPP (2nd Unit Dual Fuel: SC GT Unit)	203	IPP	HFO/Gas	29 May, 2014
4.	Gogonnagar 100 MW PP	102	IPP	HFO	03 June, 2014
5.	Ghorashal, Narsindi 100 MW PP	108	IPP	Gas	15 July, 2014
6.	Cumilla (Jangalia) 50 MW PP	52	IPP	HFO	28 December, 2014
<b>Sub Total (Private)</b>		<b>567</b>			
<b>Total</b>		<b>635</b>			



## Projects commissioned in 2015

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Ashuganj 225 MW CCPP : SC GT Unit	142	APSCL	Gas	27 April, 2015
2.	Kodda, Gazipur 150 MW Power Plant	149	BPDB- RPCL JV	HFO/Gas	16 August, 2015
3.	Bhola 225 MW CCPP:	194	BPDB	Gas	2 September , 2015
4.	Ashuganj 225 CCPP: ST Unit	75	APSCL	Gas	10 December, 2015
<b>Sub Total (Public)</b>		<b>560</b>			
<b>Private Sector</b>					
1.	Potiya, Chattogram 108 MW Power Plant	108	IPP	HFO	14 January, 2015
2.	Kathpotti, Munshigonj 50 MW PP	51	IPP	HFO	20 February, 2015
3.	Ashuganj 195 MW Modular PP	195	IPP	Gas	8 May, 2015
4.	Meghnaghat 335 MW CCPP (2nd Unit) : ST Unit	102	IPP	Gas/HSD	1 June, 2015
5.	Bibiyana-(II) 341 MW CCPP (Summit): GT Unit	222	IPP	Gas	6 June, 2015
6.	Bibiyana-(II) 341 MW CCPP (Summit): ST Unit	119	IPP	Gas	26 December, 2015
<b>Sub Total (Private)</b>		<b>797</b>			
<b>Total</b>		<b>1,357</b>			

## Projects commissioned in 2016

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Up gradation of Khulna 150 MW to 225 MW	72	NWPGCL	Gas/ HSD	28 June, 2016
2.	Ashuganj (South) 450 MW CCPP	373	APSCL	Gas	22 July, 2016
3.	Shahjibazar CCPP	330	BPDB	Gas	GT: 20 August , 2016 ST: 20 December, 2016
<b>Sub Total (Public)</b>		<b>775</b>			
<b>Private Sector</b>					
1.	Madangonj 55 MW Peaking Plant (Summit Power)	55	IPP	FO	29 February, 2016
2.	Barishal 110 MW PP (Summit Power)	110	IPP	FO	5 April, 2016
3.	Nababganj 55 MW PP	55	IPP	FO	17 Jun, 2016
4.	Manikganj 55 MW PP	55	IPP	FO	17 August, 2016
5.	Jamalpur 95 MW PP	95	IPP	Gas/ FO	29 November, 2016
<b>Sub Total (Private)</b>		<b>370</b>			
<b>Total</b>		<b>1,145</b>			



## Projects commissioned in 2017

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
1.	Bheramara 360 MW CCPP	278	NWPGCL	Gas/ HSD	GT: 9 May, 2017
2.	Ashuganj 450 MW CCPP (South)	360	APSCCL	Gas	11 June, 2017
3.	Chapainawabganj 100 MW PP	104	BPDB	HFO	12 August, 2017
4.	Shikalbaha 225 MW CCPP	225	BPDB	Gas/ HSD	8 November, 2017
<b>Sub Total (Public)</b>		<b>967</b>			
<b>Private Sector</b>					
1.	Bosila, Keraniganj 108 MW PP	108	IPP	HFO	22 February, 2017
2.	Kushiara 163 MW CCPP	109	IPP	Gas	25 July, 2017
3.	Shorishabari Solar plant	3	IPP	Solar	03 August, 2017
<b>Sub Total (Private)</b>		<b>220</b>			
<b>Total</b>		<b>1,187</b>			

## Projects commissioned in 2018

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Public Sector</b>					
*	Bheramara 360 MW CCPP (ST unit)	132	NWPGCL	Gas/ HSD	1 January, 2018
1.	Barapukuria 275 MW (3rd Unit)	274	BPDB	Coal	1 January, 2018
2.	Ghorashal 365 MW CCPP	365	BPDB	Gas	05 February, 2018
3.	Sirajganj 225 MW CCPP (2nd Unit)	220	NWPGCL	Gas/ HSD	05 February, 2018
4.	Siddhirganj 335 MW CCPP	217	EGCB	Gas	GT: 30 April, 2018
5.	Sirajganj 225 MW CCPP (3rd Unit)	141	NWPGCL	Gas/ HSD	GT: 9 August, 2018
<b>Sub Total (Public)</b>		<b>1,349</b>			
<b>Private Sector</b>					
1.	Kamalaghat 50 MW PP	54	IPP	HFO	1 January, 2018
2.	Noapara 100 MW PP (Bangla Track)	100	IPP	HSD	18 April, 2018
*	Kusiara 163 MW CCPP	54	IPP	Gas	27 April, 2018
3.	DaudKandi 200 MW PP	200	IPP	HSD	27 April, 2018
4.	Kodda, Gazipur 300 MW PP (Summit)	300	IPP	HFO	10 May, 2018



Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Commissioning Date
<b>Private Sector</b>					
5	Bramhongaon, Keraniganj 100 MW PP	100	IPP	HSD	30 May, 2018
6	Mymensingh 200 MW PP	200	IPP	HFO	16 June, 2018
7	Aowrahati, Keraniganj 100 MW (Aggreko)	100	IPP	HSD	29 June, 2018
8	Kadda 149 MW PP	149	IPP	HFO	12 July, 2018
9	Pangaon, keraniganj 300 MW PP (fast track)	300	IPP	HSD	10 August, 2018
10	Power import (2nd HVDC)	500	Import	Import	10 September, 2018
11	Teknaf, Coxsbazar 20 MW solar park	20	IPP	Solar	15 September, 2018
12	Sirajganj 400±10 MW CCPP	282	IPP	GAS/HSD	GT: 04 October, 2018
13	Rupsa, Khulna 105 MW PP	105	IPP	HFO	14 October, 2018
14	Chandpur 200 MW PP	200	IPP	HFO	09 November, 2018
15	Julda, CTG 100 MW PP (Unit-3)	100	IPP	HFO	09 November, 2018
16	Ashuganj 150 MW PP (Midland)	150	IPP	HFO	27 November, 2018
<b>Sub Total (Private)</b>		<b>2,914</b>			
<b>Total</b>		<b>4,381</b>			

## Year wise expected generation projects

### Projects to be commissioned in 2019

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1.	Sirajganj 225 MW CCPP (3rd Unit) (ST Unit)	79	NWPGCL	Gas/HSD	20 January 2019
2.	Bibiyana #3 CCPP	400	BPDB	Gas	GT: 06 February, 2019 ST: July, 2019
3.	Modhumoti, Bagerhat 100 MW PP	105	NWPGCL	HFO	15 April, 2019
4.	Gazipur 100 MW PP	105	RPCL	HFO	25 May, 2019
5.	Kaptai Solar Power Plant	07	BPDB	Solar	28 May, 2019
6.	Shahjibazar 100 MW PP	100	BPDB	Gas	August, 2019
7.	Siddhirganj 335 MW CCPP ST Unit	118	EGCB	Gas	ST : August, 2019
8.	Ghorashal 4th Unit Repowering	200	BPDB	Gas	September, 2019
9.	Mirsorai, Chattogram 150 MW PP	150	BPDB-RPCL	HFO/Gas	September, 2019
10.	Ghorashal 3rd Unit Repowering	206	BPDB	Gas	December, 2019
<b>Sub Total (Public)</b>		<b>1,470</b>			



Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Private Sector</b>					
1	Baghabari 200 MW PP	200	IPP	HSD	16 February, 2019
2	Jamalpur 115 MW Power Plant	115	IPP	HFO	19 February, 2019
3	Bogura 113 MW PP (unit-2)	113	IPP	HFO	30 March, 2019
*	Sirajganj 400±10 MW CCPP	282	GAS/HSD	IPP	ST: 09 April, 2018
4	Shikalbaha 105 MW PP	105	IPP	HFO	24 May, 2019
5	Anowara, Chattogram 300 MW PP	300	IPP	HFO	22 June, 2019
6	Majipara, Tetulia Solar plant	8	IPP	Solar	23 July, 2019
7	Rangpur 113 MW Power Plant	113	IPP	HFO	12 August, 2019
8	Shikalbaha 110 MW PP (Kornofuly Power)	110	IPP	HFO	20 August, 2019
9	Shikalbaha, Chattogram 54 MW PP	54	IPP	HFO	31 August, 2019
10	Bogura 100 MW Power Plant (Unit-1)	113	IPP	HFO	June, 2019
11	Bhairab 50 MW PP	54	IPP	HFO	June, 2019
12	Manikganj 162 MW PP	162	IPP	HFO	November, 2019
13	Chandpur 115 MW Power Plant	115	IPP	HFO	November, 2019
14	Choumohoni, Noakhali 113 MW Power Plant	113	IPP	HFO	November, 2019
15	Julda, Chattogram 100 MW PP (Accorn Inf) (Unit-2)	100	IPP	HFO	November, 2019
16	Tangail 22 MW PP (Polli Power)	22	IPP	HFO	November, 2019
17	Potiya, Chattogram 100 MW PP (Precision Energy)	116	IPP	HFO	November, 2019
18	Kanchan, Narayanganj 55 MW PP	55	IPP	HFO	December, 2019
<b>Sub Total (Private)</b>		<b>2,250</b>			
<b>Total</b>		<b>3,720</b>			

### Projects to be commissioned in 2020

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1.	Bibiyana South 383 MW CCPP	383	BPDB	Gas	GT: January, 2020 ST: December, 2020
2.	Sylhet 150 MW PP Conversion	87	BPDB	Gas	January, 2020
3.	Payra, Patuakhali 1320 Coal Fired Power Plant (1st Phase)	1320	BCPCL (NWPGL)	Imported Coal	January, 2020
4.	Shreepur 150 MW Power Plant	163	BPDB-RPCL	HFO	December, 2020
<b>Sub Total (Public)</b>		<b>1,953</b>			



Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Private Sector</b>					
1	Thakurgaon 100 MW Power Plant	115	IPP	HFO	March, 2020
2	Feni 114 MW Power Plant	114	IPP	HFO	March, 2020
3	Meghnaghat 104 MW Power Plant	104	IPP	HFO	March, 2020
4	Bhola 220 MW CCPP (D/F)	220	IPP	Gas/HSD	January, 2020
<b>Sub Total (Private)</b>		<b>553</b>			
<b>Total</b>		<b>2,506</b>			

### Projects to be commissioned in 2021

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1	Ashuganj 400 MW CCPP (East)	400	APSCl	Gas	June, 2021
2	Khulna 330 MW CCPP (D/F)	336	BPDB	Gas/HSD	GT: June, 2021 ST: December, 2021
3	Sayedpur 150 MW PP	161	BPDB	HSD	June, 2021
4.	BIFPCL, Rampal, Coal Fired Power Plant	1320	BIFPCL	Imported Coal	September, 2021
<b>Sub Total (Public)</b>		<b>2,217</b>			
<b>Private Sector</b>					
1.	Import from Tripura (2nd Phase)	340	IPP	Import	December, 2021
<b>Sub Total (Private)</b>		<b>340</b>			
<b>Total</b>		<b>2,557</b>			

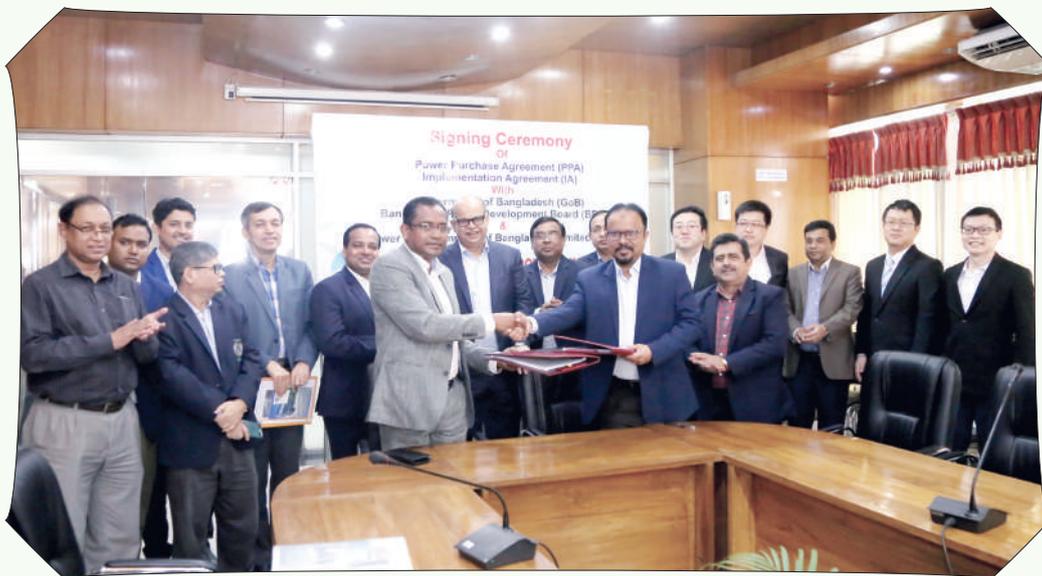
### Projects to be commissioned in 2022

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1.	Mymensingh 360 MW CCPP	420	RPCL	Gas/HSD	June, 2022
2.	Raozan 400±10% MW CCPP (1st Unit)	450	BPDB	LNG	December, 2022
<b>Sub Total (Public)</b>		<b>870</b>			
<b>Private Sector</b>					
1.	Adani Power, Jharkhand, India	1496	IPP	Import	June, 2022
2.	LNG based 750 MW CCPP	718	IPP	LNG	June, 2022
3.	Chattogram 2 x 612 MW Coal Fired Power Project	1224	IPP	Imported Coal	December, 2022
<b>Sub Total (Private)</b>		<b>3,438</b>			
<b>Total</b>		<b>4,308</b>			



## Projects to be commissioned in 2023

Sl. No.	Name of the Power Plant	Capacity (MW)	Ownership	Type of Fuel	Expected Commissioning Date
<b>Public Sector</b>					
1	Payra, Patuakhali 1320 Coal Fired Power Plant (2nd Phase)	1320	BCPCL (NWPGL)	I. Coal	December, 2023
2	Patuakhali 1320 (2x660) MW USCPC (Phase-1)	1320	RPCL	I. Coal	December, 2023
3	Haripur 250 MW CCPP	250	BPDB	LNG	December, 2023
<b>Sub Total (Public)</b>		<b>2,890</b>			
<b>Private Sector</b>					
1.	Barishal 307 MW Coal Fired Power Plant	307	IPP	I. Coal	January, 2023
2.	Meghnaghat 600 MW CCPP	583	IPP	LNG	June, 2023
3.	Meghnaghat 600 MW CCPP	584	IPP	LNG	December, 2023
4.	Meghnaghat 500 MW CCPP	450	IPP	LNG	December, 2023
<b>Sub Total (Private)</b>		<b>1,924</b>			
<b>Total</b>		<b>4,814</b>			



Signing of contract between BPDB and RPCL-NORINCO International Power Ltd. for purchasing power from Patuakhali 1320 MW coal based power plant.



## Implementation, Planning & Development of Renewable Energy Based Projects / Systems

Since the fossil fuel is depleting rapidly, the GoB has adopted important strategies to develop renewable energy as part of fuel diversification program. In line with the Renewable Energy policy, the Government is committed to facilitate both public and private sector investment in renewable energy projects to substitute indigenous non-renewable energy supplies and scale up contributions of existing renewable energy based electricity productions. Under the existing generation scenario of Bangladesh, Renewable Energy has a very small share around 2.73% to the total generation. The Government has given priority on developing renewable energy resources to improve energy security and to establish a sustainable energy regime alongside of conventional energy sources. Government has made the most strategic power generation plan in terms of fuel diversity. The change has been made considering availability of gas supply in future and analyzing primary fuel supply scenarios for future power generation. So, Renewable Energy based projects can help Bangladesh to meet its policy goals for secure, reliable and affordable energy access to people.

BPDB has taken systematic steps to implement renewable energy based projects and to promote Energy Efficiency Measures from the year 2009 to achieve the policy target.

In the **fiscal year 2018-2019**, BPDB has taken the following steps for **implementation, planning & development of renewable energy sector**:

### Renewable Energy Based Rooftop Solar Projects

BPDB has installed solar system of total capacity 295.67 kWp in different offices of BPDB which includes both off-grid and grid tied technologies and installation of total 64.456 kWp is in pipeline. Besides, under Four Distribution zones of BPDB total 3,030.56 kWp solar

system (including 102 nos Net Metering system of 516.75 kW) has been installed by Private or Consumer's initiatives which also include both off-grid and grid tied technologies and installation of total 63.49 kWp is in pipeline.

#### Implemented Solar Power Projects:

- ⌘ 7.4 MWp Grid Connected Solar PV Power Plant at Kaptai Hydro Power Station compound under BPDB in Rangamati.
- ⌘ Solar Street Lighting Programme in 8 City Corporations (SSLPCC). (800 sets of Solar PV LED Street Lighting System and 8000 sets of LED based Street Lighting System in 7 City Corporations of Bangladesh).
- ⌘ 28 MWp (20MW AC) Solar Park at Cox's Bazar by Joules Power Limited.
- ⌘ 8 MW (AC) Solar Park at Majhipara, Tetulia, Panchagarh by JV of Paragon Poultry Ltd. & Parasol Energy Ltd., Bangladesh and Symbior Solar Siam Ltd., Hongkong

### Ongoing Utility Scale PV Projects

#### BPDB's Own Project

##### Project under Planning

- ❖ Construction of 100 MWp Solar Photovoltaic Grid Connected Power Plant at Sonagazi, Feni.
- ❖ Construction of 55 MWp Solar Photovoltaic Grid-Connected Power Plant at Gangachara, Rangpur.
- ❖ Construction of Grid-Connected Floating Solar Photovoltaic Power Plant at Kaptai Lake, Rangamati & Mahamaya Lake, Mirsharai.



## IPP Project (under Construction)

Implementation of 45-55 MW (AC) Grid Tied Solar Power Project on BOO Basis at Rangunia, Chattogram

- ❖ "32 MW (AC) Solar Park at Dharmapasha, Sunamganj by Haor Bangla-Korea Green Energy Ltd.
- ❖ "50 MW (AC) Solar Park" at Sutiakhali, Gouripur, Mymensingh District, Bangladesh by HETAT-DITROLIC-IFDC Solar Consortium.
- ❖ "200MW (AC) Solar Park on BOO basis" at Teknaf, Cox's Bazar by Sun Edsion Energy Holding (Singapore) Pvt Ltd.
- ❖ "30MW (AC) Solar Park" at Gangachara, Rangpur by Intraco CNG Ltd & Juli New Energy Co. Ltd.
- ❖ "200 MW (AC) Grid Tied Solar PV Power Project" at Sundarganj, Gaibandha by Beximco Power Company Ltd & TBEA XinJiang SunOasis Co.Ltd.
- ❖ "5 MW (AC) Solar Park" at Patgram, Lalmonirhat by Green Housing & Energy Ltd (PV Power Patgram Ltd).
- ❖ "5 MW (AC) Solar Park" at Sylhet by Eiki Shoji Co Ltd, Japan & Sun Solar Power Plant Ltd.
- ❖ "35 MW (AC) Solar Park" at Manikganj by Consortium of Spectra Engineers Limited & Shunfeng Investment Limited.
- ❖ "100 MW (AC) Solar Park" at Bora Durgapur, Mongla, Bagerhat by a Consortium of Energon Technologies FZE, UAE and China Sunergy Co. Ltd. (CSUN).

## IPP Project (under Planning)

- ❖ 0.813 kWp Grid Tied Rooftop Solar PV Project on 23 nos. Government Building (8237.35 m2 rooftop area) at Jamalpur District.
- ❖ 50 MW Grid Tied Solar Power Plant near Bariahaat 132/33 kV grid substation.
- ❖ 50 MW Grid Tied Solar Power Plant near Chuadanga 132/33 kV grid substation.
- ❖ 50 MW Grid Tied Solar Power Plant near Netrokona 132/33 kV grid Substation.

## Ongoing Wind Power Projects

### BPDB's Own Project

- ❖ 2MW (8x250 kW) Capacity Wind Power Plant on Turnkey Basis at the bank of the river Jamuna adjacent to the existing Sirajganj 150 MW Power Plant Sirajganj, Bangladesh.

### IPP Project

- ❖ "30 MW Grid Tied Wind Power Project" at Sonagazi, Feni by Consortium of Bhagwati Products Ltd (India), Regen Powertech Private Ltd (India) and Siddhant Wind Energy Pvt. Ltd.
- ❖ Wind Power Project near to Kachua 132/33 kV Grid Substation, Chandpur.
- ❖ Wind Power Project near to Mongla 132/33 kV Grid Substation, Mongla, Bagerhat.
- ❖ Wind Power Project near to Gollamari 132/33 kV Grid Substation, Gollamari, Khulna.
- ❖ Wind Power Project near to Inani, Cox's Bazar

## Solid Waste to Energy based Power Projects under Planning (IPP)

- ❖ Keraniganj 1 MW Municipal Solid Waste based Power Plant at Keraniganj.
- ❖ Narayanganj 5 MW Municipal Solid Waste based Power Plant at Narayanganj.



## ON GOING DISTRIBUTION PROJECTS

With the aim of renovation and expansion of existing distribution network for reduction of distribution line loss, electrification new areas and improved customer satisfaction, BPDB has undertaken various distribution projects. The under-construction distribution projects are as follows:

Sl. No.	Name of the Projects	Projects costs			Year of completion	Cumulative progress (%)
		Local (Lakh Tk.)	Foreign (Lakh Tk.)	Total (Lakh Tk.)		
1.	Pre-payment metering project for distribution Cumilla and Mymensingh Zone.	2844	10405	13249	December 2019	25.61
2.	Power distribution system Development project, Chattogram Zone.	75615	48366	142148	December 2019	70.15
3.	Power distribution system Development project, Rajshahi Zone.	96416	0	96416	December 2019	73.00
4.	Power distribution system Development project, Rangpur Zone.	133429	0	133429	December 2020	65.00
5.	Power distribution system Development project, Sylhet Zone.	189085	0	189085	December 2021	67.00
6.	Distribution system Development Project For three Chattogram hill tracts.	56568	0	56568	December 2019	59.00
7.	Power Distribution System Development Project, Mymensingh Zone.	157546	0	157546	December 2021	17.24
8.	Power Distribution System Development Project, Cumilla Zone	152176	0	152176	December 2021	15.10
9.	Power distribution system Development project, Chattogram Zone (2nd Phase).	255190	0	255190	June 2022	0.07



Laying of Submarine cable under the sea in order to connect Sandeep Island with national grid.

## FUTURE DISTRIBUTION PROJECTS

From the view point of continuous improvement in retail sales performance and consumers' service & satisfaction, BPDB has under taken the following distribution projects:

Sl. No.	Name of the Projects
1.	Greater Chattogram Power Distribution project – SCADA Rehabilitation (Phase II).
2.	Construction of 33 KV Underground Cable at Four Distribution Zone.



## **Chapter 3**

# *Reforms & Other Activities*



## Reform and Restructure

Government has given top priority in power sector development and has made commitment to provide access to electricity to all citizens across the country by 2021. In order to achieve this goal Government has undertaken a number of reform measures, some of them have already been implemented. Till-to-date the implementation status is as follows:

- ❑ The Electricity Directorate was established in 1948 in order to plan and improve power supply situation of the country. Considering the increasing demand of electricity and its importance in agriculture & industry “Water & Power Development Authority” (WAPDA) was created in 1959. Later the “WAPDA” was divided into two parts namely “Bangladesh Power Development Board” & “Bangladesh Water Development Board” by the Presidential Order 59 (PO-59) of 31st May 1972. As a result, Bangladesh Power Development Board was entrusted with the responsibilities of Operation, Maintenance, and Development of Generation, Transmission & Distribution facilities of electricity throughout the country.
- ❑ By the ordinance (Ordinance No-LI of 1977) Rural Electrification Board (REB) was established for the development of electricity in the rural areas for the effective benefit of rural people on October, 1977.
- ❑ Under the reform program Dhaka Electric Supply Authority (DESA) was created for the proper management & electrification in Dhaka city and its adjoining areas in 1990.
- ❑ DESCO has started functioning from 1996 after taking over part of the distribution network of DESA.
- ❑ DESA was reformed again as Dhaka Power Distribution Company (DPDC) in July, 2008.
- ❑ Under the Companies Act 1994, Power Grid Company (PGCB) was created in 1996 to look after the transmission system.
- ❑ Ashuganj Power Station has been converted into Ashuganj Power Station Company Ltd. (APSCL) in 1996, as a subsidiary company of BPDB.
- ❑ Northern Electricity Supply Company Ltd. (NESCO) was created in 2016 to look after the distribution system of Rajshahi and Rangpur zone. NESCO is a distribution subsidiary of BPDB.
- ❑ West Zone Power Distribution Company Ltd. (WZPDCL) was created in 2002 to look after the distribution system of Barishal and Khulna Zone. WZPDCL is a distribution subsidiary of BPDB.
- ❑ Electricity Generation Company of Bangladesh (EGCB) has been formed as a Generation Company since 2004. EGCB has implemented 2x105 MW Peaking Power Plant at Shiddirgonj, 412 MW CCPP at Haripur and 335 MW CCPP at Shiddirgonj.
- ❑ North West Power Generation Company (NWPGL) was created in 2008. NWPGL has implemented 225 MW Combined Cycle Power Plant at Sirajganj, 225 MW Combined cycle Power Plant at Khulna, 360 MW Combined cycle Power Plant at Bheramara, 225 MW Combined cycle Power Plant at Sirajganj (2nd unit), 225 MW Combined cycle Power Plant at Sirajganj (3rd unit) and 105 MW power plant at modhumoti, Bagerhat.
- ❑ BPDB is in the process of indentifying Strategic Business Unit (SBU) for its generation and distribution sectors as a new reform initiative. Functional and financial performance of the SBUs will be operated like components of a corporate body and will be evaluated separately under the legal frame work of existing BPDB structure.

Functional, financial and human resource sharing is much easier and highly effective under one legal binding in a big organization rather than small corporate power entities.



## HRD Activities

BPDB's vision is to provide quality and reliable electricity to the people of Bangladesh for desired economic, social and human development of the country undertaking institutional and structural reforms leading to the creation of an organization of international standard. In order to achieve this vision, it is needed to develop specialized

### Achievement against training program conducted during FY 2018-19 is shown below

Sl. No.	Name of Training Center/Academy	No. of Course	Total No. of Trainees
1.	Engineering Academy, Kaptai, Rangamati	65	2015
2.	Regional Training Centre, Tongi, Gazipur.	51	2019
3.	Chattogram Training Centre, Chattogram.	59	2196
4.	Rajshahi Training Centre, Rajshahi	73	2417
5.	Ghorashal Training Centre, Narsingdi	87	2665
6.	Directorate of Training & Career Development, Dhaka.	68	2178
7.	Training Academy, Cox's Bazar	72	2329
8.	On The Job Training	180	8987
9.	Training in Abroad	89	1473
10.	Seminar/Workshop	62	1703
<b>Total</b>		<b>806</b>	<b>28082</b>

skilled services in the field of operation & maintenance with outstanding performance in Generation, Transmission & Distribution. Human resource development is the key for successful implementation of development projects of hi-tech nature in power sector and efficient operation of these facilities to keep tariff at affordable range. Sector entities have program to train 60 hours/year/employee and have a plan to increase its 100 hours in future. It is very important to ensure quality training otherwise all efforts will go in vain.

BPDB has been implementing all its training Programs through Directorate of Training & Career Development. Training Academy of Kaptai, four regional training centers and two specialized training center for power plants are providing training courses for technical and non-technical manpower of power sector entities. Regional Training Centers of BPDB are located at Tongi, Rajshahi, Chattogram, Narshingdi and Cox's Bazar.

Training centers at Ghorasal is dedicated to train power plant engineers & staff. Efforts are underway to establish state-of-the-art training academy at Keraniganj near Dhaka for this purpose.



A meeting on developing skilled manpower in electrical trade by power sector entities with Mr. Md. Abul Kalam Azad, Principal Coordinator, SDG Affairs in the chair.



**Kaptai 7.4 MW Solar Power Plant**



# Chapter 4

## *Tables and Charts*



## GENERATION TABLES AND CHARTS

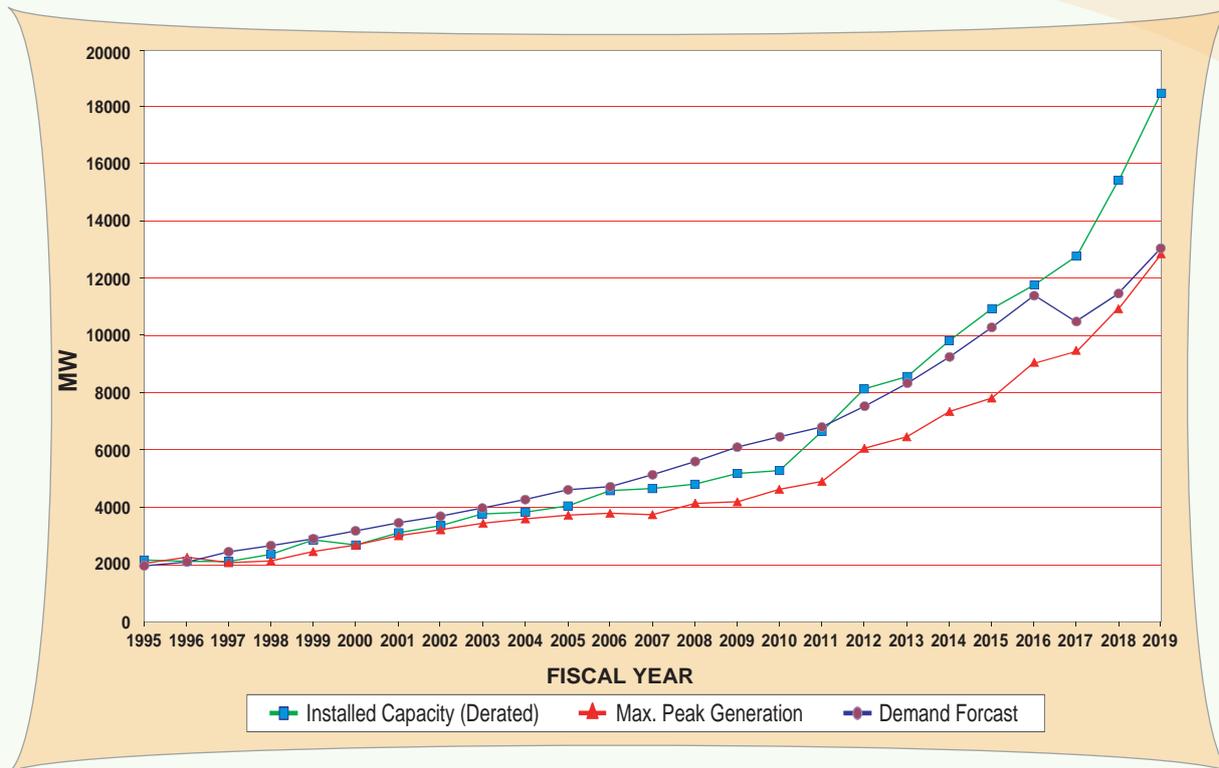
### Installed Capacity, Present Capacity (Derated), Maximum Demand Maximum Peak Generation and Load Shedding

Year	Installed Capacity (MW) <sup>1</sup>	Derated Capacity (MW) <sup>2</sup>	Maximum Demand (MW) <sup>3</sup>	Maximum Peak Generation (MW)	Energy Not Served (MKWH)
1974-75	667	490		266	
1975-76	766	606		301	
1976-77	767	571		342	
1977-78	752	557		396	
1978-79	718	571		437	
1979-80	822	625		462	
1980-81	813	707		545	
1981-82	857	712		604	
1982-83	919	810		709	
1983-84	1,121	998		761	
1984-85	1,141	1,018		887	
1985-86	1,171	1,016		883	
1986-87	1,607	1,442		1,084	
1987-88	2,146	1,859		1,317	
1988-89	2,365	1,936		1,393	
1989-90	2,352	1,834		1,509	
1990-91	2,350	1,719	-	1,640	
1991-92	2,398	1,724	-	1,672	
1992-93	2,608	1,918	-	1,823	
1993-94	2,608	1,881	-	1,875	
1994-95	2,908	2,133	2,038	1,970	
1995-96	2,908	2,105	2,220	2,087	
1996-97	2,908	2,148	2,419	2,114	550
1997-98	3,091	2,320	2,638	2,136	516
1998-99	3,603	2,850	2,881	2,449	264
1999-00	3,711	3,549	3,149	2,665	121
2000-01	4,005	3,830	3,394	3,033	119
2001-02	4,234	3,883	3,659	3,218	70
2002-03	4,680	4,368	3,947	3,428	69
2003-04	4,680	4,315	4,259	3,592	147
2004-05	4,995	4,364	4,597	3,721	260
2005-06	5,245	4,614	4,693	3,782	843
2006-07	5,202	4,623	5,112	3,718	2,264
2007-08	5,305	4,776	5,569	4,130	1,107
2008-09	5,719	5,166	6,066	4,162	1,363
2009-10	5,823	5,271	6,454	4,606	1,829
2010-11	7,264	6,639	6,765	4,890	1,899
2011-12	8,716	8,100	7,518	6,066	1,647
2012-13	9,151	8,537	8,349	6,434	1,070
2013-14	10,416	9,821	9,268	7,356	515
2014-15	11,534	10,939	10,283	7,817	177
2015-16	12,365	11,170	11,405	9,036	122
2016-17	13,555	12,771	10500*	9,479	37
2017-18	15,953	15,410	11,500*	10,958	32
2018-19	18,961	18,438	13,044*	12,893	53

- Note :**
1. Installed capacity is as of 30th June of the year.
  2. Present Capacity (Derated) is the Maximum available generation capacity at present.
  3. Maximum Demand is shown as per power system master plan 2010.
- \* As per revisiting power system master plan 2016.

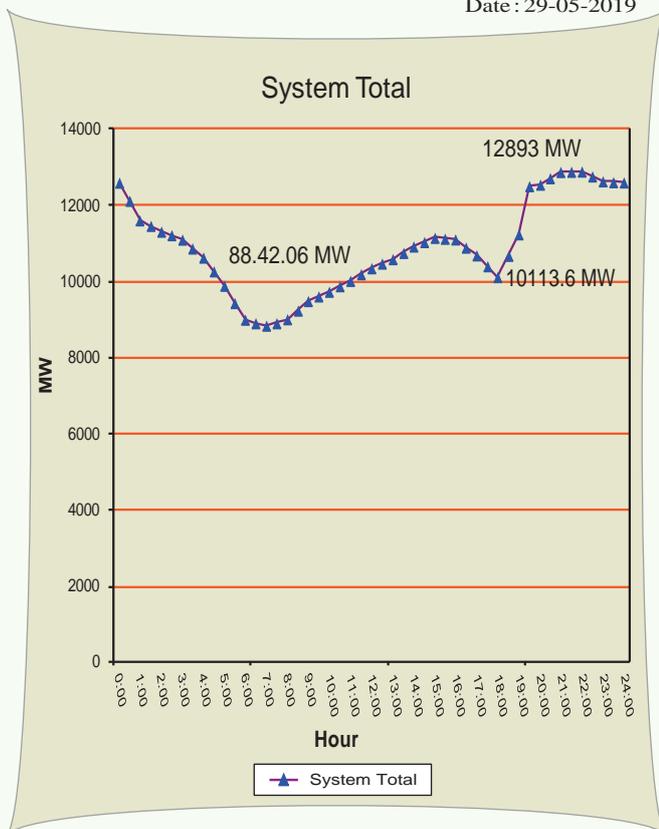


## Installed Capacity (Derated), Maximum Peak Generation & Demand Forecast

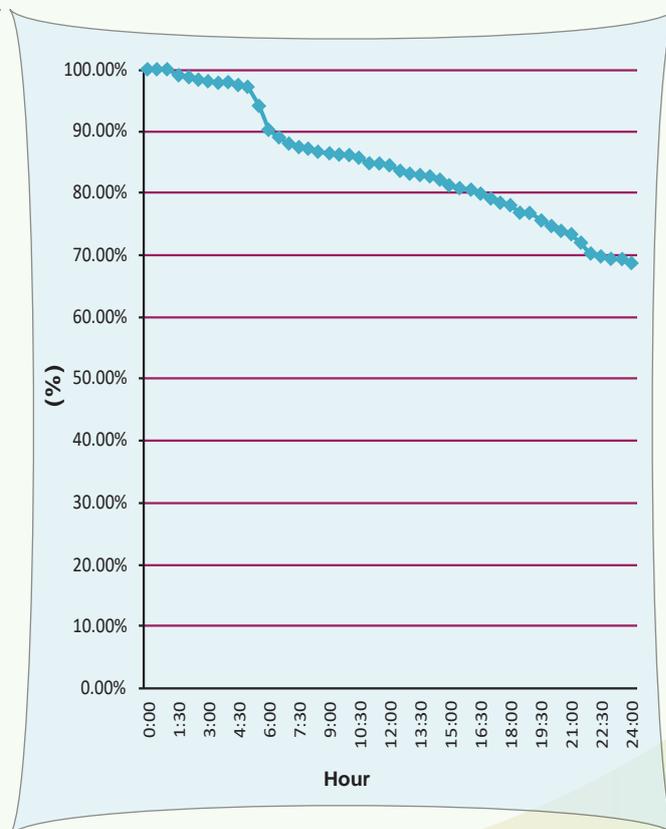


## Daily Load Curve

Date: 29-05-2019



## Load Duration Curve



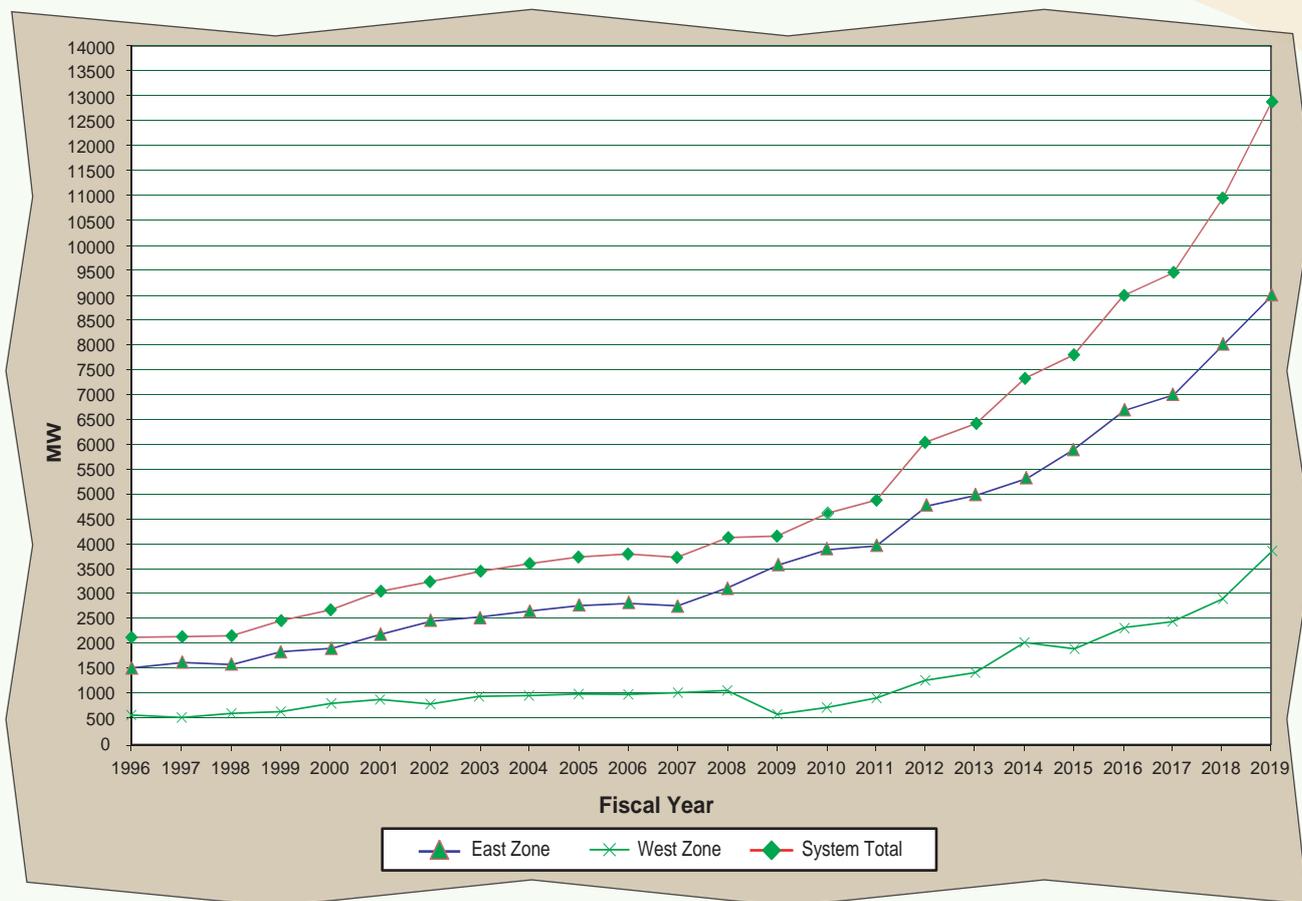


## Year Wise Maximum Generation

Year	Maximum Generation in MW			% Increase over the preceding year
	East Zone	West Zone	System Total	
1970-71	172	53	225	-
1971-72	141	42	183	(18.66)
1972-73	175	47	222	21.53
1973-74	185	65	250	12.60
1974-75	199	67	266	6.36
1975-76	220	81	301	13.28
1976-77	254	88	342	13.49
1977-78	287	109	396	15.78
1978-79	331	105	437	10.25
1979-80	338	124	462	5.82
1980-81	399	146	545	18.03
1981-82	451	153	604	10.72
1982-83	506	203	709	17.45
1983-84	549	212	761	7.40
1984-85	651	236	887	16.47
1985-86	613	270	883	(0.47)
1986-87	734	349	1,084	22.76
1987-88	925	392	1,317	21.55
1988-89	980	413	1,393	5.77
1989-90	1,070	439	1,509	8.33
1990-91	1,141	499	1,640	8.68
1991-92	1,160	512	1,672	1.95
1992-93	1,293	530	1,823	9.05
1993-94	1,355	520	1,875	2.84
1994-95	1,472	498	1,970	5.07
1995-96	1,497	590	2,087	5.96
1996-97	1,594	520	2,114	1.29
1997-98	1,560	577	2,136	1.03
1998-99	1,828	621	2,449	14.62
1999-00	1,878	787	2,665	8.84
2000-01	2,175	858	3,033	13.82
2001-02	2,447	771	3,218	6.08
2002-03	2,512	917	3,428	6.54
2003-04	2,646	946	3,592	4.79
2004-05	2,750	971	3,721	3.58
2005-06	2,809	973	3,782	1.65
2006-07	2,725	993	3,718	(1.70)
2007-08	3,089	1,041	4,130	11.09
2008-09	3,589	573	4,162	0.78
2009-10	3,883	723	4,606	10.67
2010-11	3,962	928	4,890	6.17
2011-12	4,805	1,261	6,066	24.05
2012-13	5,010	1,424	6,434	6.07
2013-14	5,320	2,036	7,356	14.33
2014-15	5,902	1,915	7,817	6.27
2015-16	6,699	2,337	9,036	15.59
2016-17	7,024	2,455	9,479	4.90
2017-18	8,034	2,924	10,958	15.60
2018-19	9,012	3,881	12,893	17.66



## Growth of Maximum Generation (Actual)



State Minister for Power, Energy & Mineral Resources Mr. Nasrul Hamid MP signing a MoU with Group CEO of Emirates National Oil Company Mr. Saif Humaid Al Falasi (Left) and BPDB Chairman Engr. Khaled Mahmood signing a MoU with Sheikh Ahmed Dalmook Al Maktoum, a member of UAE Royal family (Right) on cooperation in power sector in presence of Hon'ble Prime Minister Sheikh Hasina during her visit to UAE.



## Plant Wise Generation (FY 2018-19)

Sl. No.	Name of power plant	Type of fuel	Installed Capacity (As of June) (MW)	Net Energy Generation (GWh)	Annual Plant factor (%)	Efficiency (%) (Net)	Overall Thermal Efficiency (%) (Net)	
<b>PUBLIC</b>								
<b>DHAKA ZONE</b>								
1	a) Ghorashal TPP (Unit 1&2)	Gas	110	386.8412	55.43	24.94	38.4	
	b) Ghorashal Repowered CCPP Unit-3	Gas	210	363.1416	25.42	28.67		
	c) Ghorashal Repowered CCPP Unit-4	Gas	210	650.5006	43.17	29.45		
	d) Ghorashal TPP Unit-5	Gas	210	448.5041	28.86	28.96		
	Ghorashal 365 MW CCPP Unit-7		Gas	365	2161.5107	70.78		44.74
2	Tongi 80 MW GTPP	Gas	105	21.5357	2.71	19.28		
3	Haripur GTPP	Gas	64	50.3921	14.67	19.86		
4	210 MW Siddhirganj TPP	Gas	210	62.6653	7.78	25.89		
5	Siddhirganj 2x120 MW GTPP	Gas	210	557.2581	31.57	25.13		
6	Haripur 412 MW CCPP	Gas	412	2723.6344	78.41	56.13		
7	Gazipur 52 MW PP	F.oil	52	245.2820	55.48	42.35		
8	Kodda 150 MW PP	F.oil	149	340.2905	27.06	38.69		
9	Siddhirganj 335 MW CCPP	Gas	217	734.5884	40.74	31.84		
10	Gazipur 100 MW PP	F.oil	105	96.2809	10.48	39.93		
<b>CHATTOGRAM ZONE</b>								
11	Karnaphuli Hydro PP Unit -1,2,3,4 & 5	Hydro	230	724.6487	36.06	-		
12	a) Chattogram TPP Unit -1	Gas	210	505.4729	35.02	27.67		
	b) Chattogram TPP Unit -2	Gas	210	514.4382	35.10	24.39		
13	Shikalbaha 60 MW TPP	Gas	60	0.2148	0.22	25.44		
14	Shikalbaha Peaking GT	Gas	150	441.2799	34.66	32.18		
		HSD		153.1014		26.30		
15	Hathazari 100 Peaking PP	F.oil	98	141.5397	16.90	41.66		
16	Dohazari-Kalaish 100 Peaking PP	F.oil	102	163.8444	18.84	39.89		
17	Raozan 25 MW PP	F.oil	25	112.1435	52.49	40.87		
18	Shikalbaha 225 MW CCPP	Gas	225	991.1995	52.07	45.71		
		HSD		297.8829		42.74		
19	Sonagazi 1 MW wind PP	Wind	0	0.1397	-	-		
20	Kutubdia 900kW wind PP	Wind	0	0.0000	-	-		
21	Kaptai 7 MW Solar PP	Solar	7	1.5826	2.59	-		
<b>CUMILLA ZONE</b>								
22	Ashuganj 2x64 MW S/T (1,2)	Gas	-	-19.6300	-	-		
23	Ashuganj 3x150 MW S/T (3,4,5)	Gas	450	1268.7592	39.85	30.60		
24	Ashuganj 50 MW GE	Gas	53	235.9148	61.56	38.02		
25	Ashuganj 225 MW CCPP	Gas	221	1612.1027	84.83	47.74		
26	Ashuganj (South) 450 MW CCPP	Gas	360	2427.8970	79.99	52.45		
27	Ashuganj (North) 450 MW CCPP	Gas	360	2238.4465	74.09	50.17		
28	Chandpur 150 MW CCPP	Gas	163	681.6157	49.98	30.46		
29	Titas (Doudkandi) 50 MW RE	Gas	52	33.0576	7.73	36.18		
<b>SYLHET ZONE</b>								
30	Shahjibazar GTPP Unit-8&9	Gas	70	479.6311	83.28	27.75		
31	Shahjibazar 330 MW CCPP	Gas	330	1755.1836	63.39	40.21		
32	Fenchuganj CCPP Phase-1	Gas	97	423.1120	69.84	28.27		
	Fenchuganj CCPP Phase-2	Gas	104	449.9665	60.26	28.38		
33	Sylhet 20MW GTPP	Gas	20	64.7832	37.20	25.54		
34	Sylhet 150MW CCPP	Gas	142	703.8422	58.03	27.89		
35	Bibiyana III 400 MW CCPP	Gas	285	385.6181	16.12	33.86		
<b>KHULNA ZONE</b>								
36	Khulna 110 MW S/T	F.oil	-	-0.7993	-	-		
37	Khulna 225 MW CCPP	HSD	230	348.4225	17.98	31.98		
38	Bheramara GT Unit-1,2 & 3	HSD	60	17.4377	4.41	22.29		
39	Bheramara 360 MW CCPP	Gas	410	1999.0371	58.16	45.70		
40	Faridpur 50 MW Peaking PP	F.oil	54	85.5610	19.20	36.26		
41	Gopalganj 100 MW Peaking PP	F.oil	109	125.1056	13.89	36.78		
42	Modhumati 100 MW PP	F.oil	105	156.4113	17.01	40.16		



Sl. No.	Name of power plant	Type of fuel	Installed Capacity (As of June) (MW)	Net Energy Generation (GWh)	Annual Plant factor (%)	Efficiency (%) (Net)	Overall Thermal Efficiency (%) (Net)
<b>BARISHAL ZONE</b>							
43	Barishal GTPP Unit -1 & 2	HSD	40	9.01	3.67	16.14	
44	Bhola 225 MW CCPP	Gas	194	1294.09	79.72	52.33	
<b>RAJSHAHI ZONE</b>							
45	a) Baghabari 71 MW GTPP	Gas	71	172.5281	36.82	27.73	
	b) Baghabari 100 MW GTPP	Gas	100	53.8188		27.96	
46	Sirajganj 225 MW CCPP Unit-1	Gas	210	1175.5848	71.50	43.20	
		HSD		83.0363		41.44	
47	Baghabari 50 MW Peaking PP	F.oil	52	94.4449	21.13	37.92	
48	Bera 70 MW Peaking PP	F.oil	71	58.2611	9.65	39.49	
49	Santahar 50 MW Peaking PP	F.oil	50	82.9046	19.27	37.54	
50	Katakhali 50 MW Peaking PP	F.oil	50	70.0583	16.32	36.55	
51	Chapainawabganj 100 MW Peaking PP	F.oil	104	296.02152	33.20	39.76	
52	Sirajganj 225 MW CCPP Unit- 2	Gas	220	945.4569	66.42	41.88	
		HSD		281.8917		40.98	
53	Sirajganj 225 MW CCPP Unit-3	Gas	220	772.2539	44.69	38.54	
		HSD		54.8920		35.64	
<b>RANGPUR ZONE</b>							
54	a) Barapukuria TPP Unit -1,2	COAL	250	103.4305	8.46	19.36	
55	b) Barapukuria 275 MW TPP Unit-3	COAL	274	1126.0726	52.32	32.39	
56	Sayedpur 20 MW GTPP	HSD	20	36.7144	21.06	21.53	
	Rangpur 20 MW GTPP	HSD	20	29.9361	17.26	18.10	
	<b>Total (Grid)</b>		<b>9,567</b>	<b>35101.80</b>	<b>46.34</b>	-	
	Isolated East	HSD	0	5.1394			
	Isolated West	HSD	0	0.00			
	<b>Total PUBLIC</b>		<b>9,567</b>	<b>35106.94</b>			
<b>PRIVATE</b>							
<b>A. IPP</b>							
1	Ashuganj 51 MW PP (Midland)	GAS	51	221.2279	49.52	35.51	
2	RPCL 210MW CCPP	GAS	210	1007.3369	56.93	45.15	
3	Haripur Power Ltd.	GAS	360	2403.9460	76.23	49.06	
4	Meghnaghat Power Ltd.	GAS	450	2965.9578	75.24	45.17	
5	Regent Energy & Power Ltd 108 MW	GAS	108	354.6692	37.49	37.26	
6	Ashuganj 195MW PP (APSC-United)	GAS	195	410.6892	24.04	42.51	
7	Summit Bibiyana - II Power Co Ltd. 341 MW	GAS	341	2275.7781	76.19	28.88	
8	Kushiara power Co. Ltd (163MW) CCPP	GAS	163	1078.6260	75.54	35.70	
9	Sirajganj 410 MW CCPP (Unit-4) SNWPGCL	GAS	282	773.9797	54.20	42.71	
10	Summit Meghnaghat Power Co.Ltd.	GAS	305	637.3220	23.85	43.09	
11	KPCL(110 MW),U-1,Tiger-1,3(Burg)	F.Oil	110	105.9346	10.99	39.09	
12	NEPC Consortium Power Ltd.	F.Oil	110	104.8469	10.88	41.03	
13	Natore 52 MW IPP (Raj-Lanka) (IPP)	F.Oil	52	238.4879	52.36	43.57	
14	Digital Power & Associates Gagnagar	F.Oil	102	257.8347	28.86	41.25	
15	Baraka Patenga	F.Oil	50	250.4151	57.17	43.05	
16	ECPV Chattogram Limited 108 MW	F.Oil	108	407.3150	43.05	43.05	
17	Lakdhanvi lanka- Bangla Jangalia Cumilla 52MW	F.Oil	52	88.4207	19.41	43.57	
18	Sinha Peoples Energy Ltd. Katpatti 52.5 MW Exp	F.Oil	51	180.7563	40.46	42.90	
19	Barishal 110 MW PP (Summit )	F.Oil	110	360.5970	37.42	42.54	
20	Summit Narayanganj Power unit-2 Madanganj (55 MW)	F.Oil	55	195.6460	40.61	42.54	
21	Dhaka(Doreen) Northern Power Ltd. Manikganj	F.Oil	55	252.1221	52.33	44.40	
22	Dhaka(Doreen) Southern Power Ltd. Nobabganj	F.Oil	55	231.6426	48.08	44.40	
23	Jamalpur 95 MW PP (Powerpack)	F.Oil	95	366.0579	43.99	43.57	
24	CLC Power Co. Ltd. 108 MW Bosila Keraniganj	F.Oil	108	228.4470	24.15	43.20	
25	Kamalaghat Banco Energy Generation	F.Oil	54	253.4554	53.58	42.45	
26	Kodda Gazipur 300MW Power Ltd.(unit-2 Summit)	F.Oil	300	671.6435	25.56	41.45	
27	Mymensingh 200 MW PP (United)	F.Oil	200	646.4911	36.90	42.08	
28	Kodda Gazipur 149MW Power Ltd. (Unit-1 Summit) ACE Alliance	F.Oil	149	443.0393	33.94	42.71	
29	Rupsha 105 MW PP (Orion rupsha)	F.Oil	105	302.8415	32.92	43.31	
30	Chandpur 200MW (Desh energy)	F.Oil	200	387.3457	22.11	43.31	
31	Julda Acorn 100 MW Unit-3	F.Oil	100	368.6993	42.09	43.84	



Sl. No.	Name of power plant	Type of fuel	Installed Capacity (As of June) (MW)	Net Energy Generation (GWh)	Annual Plant factor (%)	Efficiency (%) (Net)
32	Ashuganj 150MW PP (Midland)	F.Oil	150	165.0861	12.56	43.31
33	Jamalpur 115 MW PP (United)	F.Oil	115	230.3367	22.86	43.98
34	Bogura 113 MW PP (Unit-2) (Confidence)	F.Oil	113	135.6564	13.70	44.97
35	Baraka Shikalbaha 105MW PS	F.Oil	105	45.5569	4.95	43.84
36	United Anowara 300MW PS	F.Oil	300	131.8618	5.02	44.80
37	Confidence Power Ltd. 113MW Rangpur	F.Oil	113	4.1012	0.41	44.97
38	Summit Meghnaghat Power Co.Ltd.	HSD	305	274.6529	10.28	43.09
39	APR Energy 300MW	HSD	300	60.4922	2.30	35.95
40	Daudkandi 200 MW PP (B.Trac)	HSD	200	54.6814	3.12	35.95
41	Noapara 100 MW PP (Bangla Trac)	HSD	100	115.6504	13.20	35.95
42	Aggreko, Aourahati 100MW	HSD	100	34.7940	3.97	36.64
43	Aggreko, Brahmangaon 100MW	HSD	100	29.6301	3.38	36.64
44	Baghabari 200 MW PP (Paramount)	HSD	200	20.5755	1.17	35.95
45	Sarishabari 3 MW Solar Plant	Solar	3	4.0733	15.50	-
46	Sailo Solar Power Plant Shantahar	Solar	-	0.1194	-	-
47	Shalla 400 KW Solar	Solar	-	0.0607	-	-
48	20 MW Solar Teknaf	Solar	20	32.6440	18.63	-
<b>Sub-Total IPP</b>			<b>6,910</b>	<b>19811.55</b>	<b>33.89</b>	
<b>B. RENTAL &amp; SIPP</b>						
1	Bogura 22 MW PP (GBB)	GAS	22	161.9826	84.05	31.62
2	Bogura 20 MW PP (Energyprima)	GAS	20	87.2472	49.80	34.25
3	Ghorashal 78 MW QRPP (3 Yrs Max Power)	GAS	78	254.9273	37.31	35.85
4	Tangail 22 MW PP (Doreen)	GAS	22	141.8950	73.63	38.26
5	Feni 22MW PP (Doreen)	GAS	22	153.7413	79.77	38.26
6	Jangalia 52 MW PP (Lakdanavi)	GAS	33	184.6593	63.88	38.23
7	Ashuganj 55 MW PP (Precision)	GAS	55	114.8658	23.84	32.50
8	B. Baria 70 MW QRPP ( Aggreco)	GAS	85	319.4590	42.90	35.96
9	Ashuganj 53MW PP (United)	GAS	53	77.0281	16.59	36.31
10	Kumargao 50 MW 3 yrs (Energyprima)	GAS	50	284.3335	64.92	34.25
11	Shahjibazar 86 MW RPP (15 yrs)	GAS	86	474.1140	62.93	27.25
12	Shahjibazar 50 MW RPP (3 yrs) (Energyprima)	GAS	50	310.2886	70.84	28.41
13	Kumargaon 10 MW Desh Combridge (15 Yrs)	GAS	10	59.0607	67.42	43.05
14	Fenchuganj 51 MW Rental (15 Yrs) (Barakatullah)	GAS	51	295.7352	66.20	37.91
15	Fenchuganj 50 MW Rental (Energy Prima)	GAS	44	321.9971	83.54	31.28
16	Barabkundu SIPP 22 MW (Regent Power)	GAS	22	163.3492	84.76	38.26
17	Malancha, EPZ, Ctg	GAS	Captive	190.6978	-	-
18	Bhola 33 MW PP (Venture)	GAS	33	187.6331	64.91	28.49
19	Shahjahanullah Power Gen Co. Ltd.	GAS	18	125.1153	79.35	35.84
20	Bhola 95 MW PP (Aggreko)	GAS	95	618.6817	74.34	36.24
21	Khulna 115 PP MW (KPCL-2)	F.oil	115	326.9281	32.45	-
22	Noapara 40 MW PP (Khanjahan Ali)	F.oil	40	175.2316	50.01	32.50
23	Summit Power Co. Ltd Madangonj (100 MW)	F.oil	102	204.8338	23.38	40.15
24	IEL, Meghnaghat 100 MW	F.oil	100	207.4989	23.69	41.11
25	Siddhirganj Dutchbangla 100 MW	F.oil	100	183.0824	20.90	-
26	Energies Power Cor.Ltd Shikalbaha 55MW	F.oil	50	269.9379	61.63	38.33
27	Amnura 50MW Sinha Power	F.oil	100	225.5664	25.75	39.24
28	Power Pac Mutiara, Keranigonj, 100MW	F.oil	102	157.1171	17.94	41.79
29	Julda Acorn Infra.service Ltd. 100MW	F.oil	100	364.8468	41.65	41.29
30	Kata Khali (ENA) 100MW	F.oil	100	155.6758	17.77	41.29
31	Khulna RPP 55 MW (Aggreko)	HSD	50	10.9254	2.49	41.79
32	Pagla DPA Power Generation Int.Ltd.	HSD	100	52.1523	5.95	43.22
33	Desh Energy Siddhirganj, 100 MW	HSD	50	51.2188	11.69	41.29
<b>Sub-Total RENTAL &amp; SIPP</b>			<b>1,958</b>	<b>6911.83</b>	<b>42.00</b>	
<b>IMPORT</b>						
1	Power Import (Bheramara-Bharampur Phase-1)	Import	500	2531.1256		
2	Import from Tripura (1st Phase)	Import	100	1028.2981		
3	Import from Tripura (2nd Phase)	Import	60	648.4784		
4	Power Import (Bheramara-Bharampur Phase-2)	Import	300	1750.5162		
5	Sembcorp Energy India Ltd.	Import	200	827.5954		
<b>Total Energy IMPORT</b>			<b>1,160</b>	<b>6,786</b>		
<b>SIPP (REB)</b>			<b>251</b>	<b>1,917</b>		
<b>GRAND TOTAL</b>			<b>19,846</b>	<b>70,533</b>		



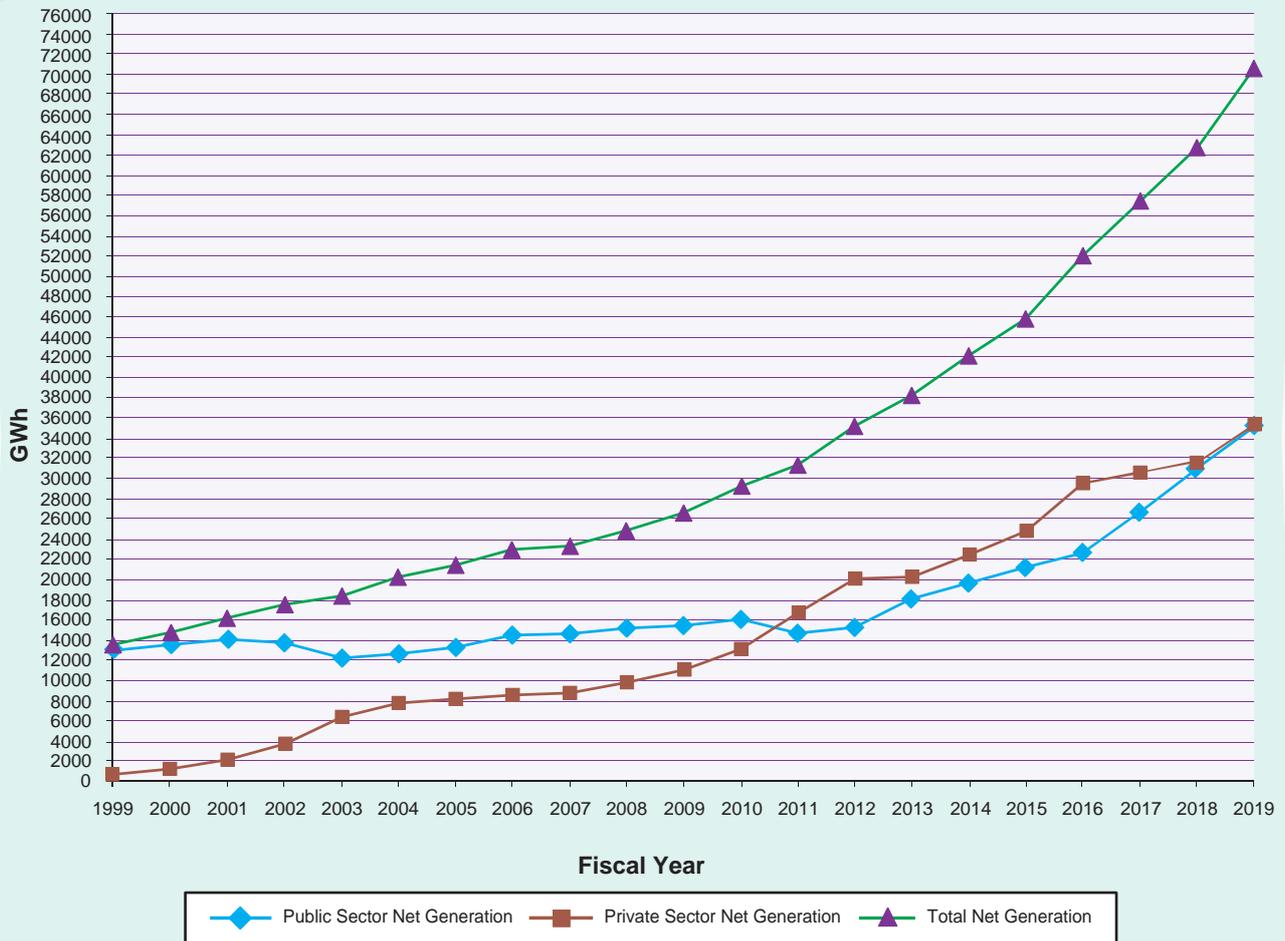
## Energy Generation (National)

In GWh

Year	Gross Energy Generation of Public Sector			Net Generation of Public Sector	Total Private Generation Inclu. REB (Net)	Total Generation (Net)	% Change Over the Preceding Year	Energy Transfer through East-West Interconnector	
	East Zone	West Zone	System Total					East to West	West to East
1970-71	725	204	929	883	-	883	-	-	-
1971-72	582	135	717	681	-	681	(22.82)	-	-
1972-73	857	229	1086	1031	-	1,031	51.41	-	-
1973-74	982	283	1265	1202	-	1,202	16.56	-	-
1974-75	1022	300	1322	1256	-	1,256	4.48	-	-
1975-76	1116	344	1460	1387	-	1,387	10.41	-	-
1976-77	1224	394	1619	1538	-	1,538	10.89	-	-
1977-78	1444	468	1913	1817	-	1,817	18.18	-	-
1978-79	1603	519	2122	2016	-	2,016	10.95	-	-
1979-80	1745	609	2353	2236	-	2,236	10.89	-	-
1980-81	1,978	684	2,662	2529	-	2,529	13.11	-	-
1981-82	2,292	744	3,036	2885	-	2,885	14.07	-	-
1982-83	2,846	587	3,433	3261	-	3,261	13.05	341.32	0.24
1983-84	3,398	568	3,966	3768	-	3,768	15.54	519.04	1.44
1984-85	3,656	873	4,528	4302	-	4,302	14.18	477.41	20.63
1985-86	3,488	1,312	4,800	4560	-	4,560	6.00	222.40	106.43
1986-87	4,749	838	5,587	5308	-	5,308	16.39	797.84	10.91
1987-88	5,753	789	6,541	6214	-	6,214	17.08	1,179.54	0.02
1988-89	6,534	581	7,115	6759	-	6,759	8.77	1,550.00	--
1989-90	7,401	331	7,732	7345	-	7,345	8.67	1,956.78	--
1990-91	8,126	144	8,270	7857	-	7,857	6.96	2,314.07	--
1991-92	8,500	394	8,894	8450	-	8,450	7.55	2,213.00	--
1992-93	8,583	624	9,206	8746	-	8,746	3.51	1,919.89	--
1993-94	9,129	655	9,784	9295	-	9,295	6.28	1,980.76	--
1994-95	9,885	921	10,806	10266	-	10,266	10.45	1,954.62	--
1995-96	10,735	740	11,474	10901	-	10,901	6.18	2,215.02	--
1996-97	10,805	1,053	11,858	11,243	-	11,243	3.14	1,924.17	--
1997-98	11,789	1,093	12,882	12,194	-	12,194	8.46	1,997.00	--
1998-99	13,126	746	13,872	13,060	578	13,638	11.84	2,186.00	--
1999-00	13,634	684	14,318	13,495	1,244	14,739	8.07	2,482.45	--
2000-01	13,717	1,111	14,828	14,062	2,193	16,255	10.28	1,979.40	--
2001-02	13,267	1,183	14,450	13,674	3,771	17,445	7.32	2,249.16	--
2002-03	11,371	1,510	12,881	12,159	6,299	18,458	5.80	2,170.40	--
2003-04	11,303	2,039	13,342	12,584	7,718	20,302	9.99	2,135.55	--
2004-05	11,910	2,157	14,067	13,223	8,185	21,408	5.45	2,146.20	--
2005-06	13,177	2,240	15,417	14,456	8,522	22,978	7.33	2344.72	--
2006-07	12,964	2,531	15,495	14,539	8,729	23,268	1.26	1950.25	--
2007-08	13,397	2,758	16,155	15,167	9,779	24,946	7.21	2462.08	--
2008-09	13,627	2,803	16,431	15,449	11,084	26,533	6.36	2548.99	--
2009-10	14,735	2,329	17,064	16,072	13,175	29,247	10.23	3831.43	--
2010-11	12,845	2,680	15,525	14,673	16,682	31,355	7.21	3574.00	--
2011-12	13,316	2,758	16,074	15,201	19,917	35,118	12.00	4445.42	--
2012-13	15,078	3,929	19,008	17,994	20,235	38,229	8.86	4695.49	--
2013-14	15,726	4,943	20,669	19,645	22,550	42,195	10.37	3138.37	--
2014-15	16,950	5,214	22,163	21,103	24,733	45,836	8.63	3043.08	--
2015-16	17,542	6,179	23,721	22,586	29,608	52,193	13.87	2859.60	--
2016-17	21,343	6,594	27,938	26,597	30,679	57,276	9.74	2398.56	--
2017-18	24,231	8,276	32,507	31,082	31,595	62,677	9.43	2721.00	--
2018-19	26,755	9,963	36,718	35,107	35,426	70,533	12.53	2179.00	--



## Total Net Energy Generation



Power Purchase Agreement between BPDB and Sembcorp, India for importing 250 MW power form India.



Power Purchase Agreement between BPDB and Manikganj Power Gen. Ltd. for purchasing power from Shingair 162 MW Power Plant.



## Year Wise Per Capita Generation and Consumption (Grid)

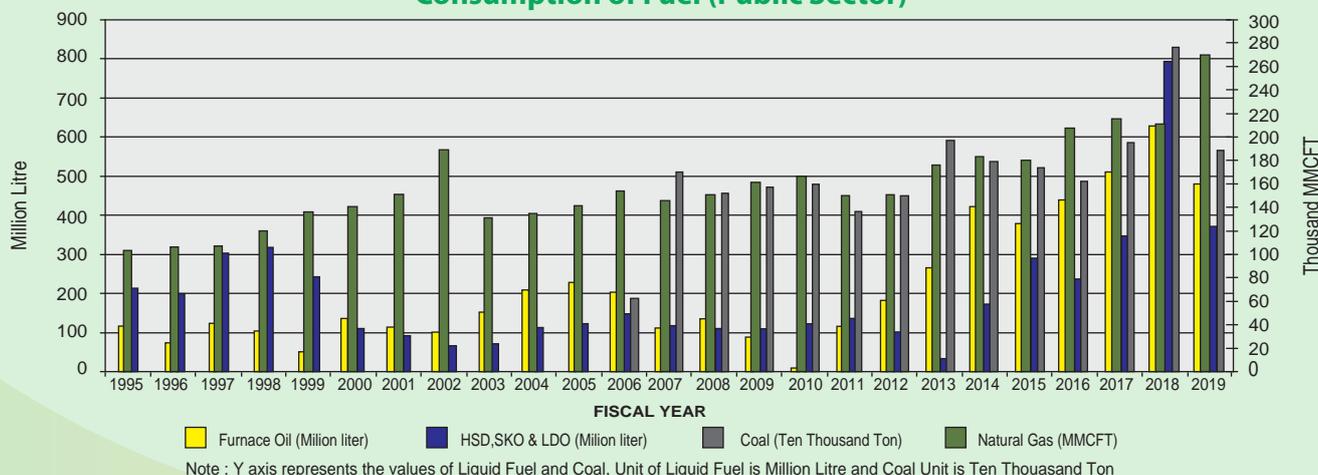
Year	Total Generation (GWh)	Total Population (In million)	Total Sale (MkWh)	Per Capita Generation (kWh)	Per Capita Consumption (kWh)
1976-77	1,619	82	1,013	19.80	12.39
1977-78	1,913	84	1,205	22.85	14.39
1978-79	2,122	86	1,381	24.78	16.13
1979-80	2,353	88	1,406	26.85	16.04
1980-81	2,662	90	1,740	29.73	19.43
1981-82	3,036	92	2,028	33.04	22.07
1982-83	3,433	94	2,399	36.48	25.49
1983-84	3,966	96	2,703	41.25	28.12
1984-85	4,528	98	2,841	46.16	28.96
1985-86	4,800	100	3,307	48.00	33.07
1986-87	5,587	103	3,485	54.19	33.81
1987-88	6,541	105	3,773	62.02	35.77
1988-89	7,115	108	4,695	65.91	43.49
1989-90	7,732	110	4,705	70.02	42.60
1990-91	8,270	111	4,871	74.77	44.04
1991-92	8,894	112	6,021	79.32	53.70
1992-93	9,206	115	6,906	80.01	60.02
1993-94	9,784	116	7,448	84.19	64.08
1994-95	10,806	117	8,371	92.06	71.32
1995-96	11,474	119	8,996	96.79	75.88
1996-97	11,858	120	9,447	99.03	78.90
1997-98	12,882	127	10,176	101.84	80.44
1998-99	14,450	128	11,352	112.89	88.69
1999-00	15,563	130	12,461	119.71	95.85
2000-01	16,255	132	14,003	123.14	106.08
2001-02	17,445	134	15,243	136.02	113.80
2002-03	18,458	133	16,332	138.36	122.43
2003-04	20,302	135	18,024	149.94	133.11
2004-05	21,408	137	19,196	155.78	139.68
2005-06	22,978	139	20,954	164.73	150.22
2006-07	23,268	141	21,181	164.75	149.97
2007-08	24,946	143	22,622	174.45	158.20
2008-09	26,533	145	23,937	183.26	165.32
2009-10	29,247	146	24,860	200.32	170.27
2010-11	31,355	148	26,652	211.86	180.08
2011-12	35,118	152	29,974	231.65	197.72
2012-13	38,229	154	32,740	248.89	213.15
2013-14	42,195	156	36,233	270.83	232.56
2014-15	45,836	159	39,624	288.22	249.16
2015-16	52,193	161	45,299	324.18	281.36
2016-17	57,276	163	50,264	351.21	308.22
2017-18	62,678	164	55,103	382.18	335.99
2018-19	70,533	166	62,037	425.92	374.62



## Year wise Fuel Consumption of Public Sector Power Plants

Year	Natural Gas in MMCFT	Liquid Fuel in Million liter		Coal (Ten Thousand Ton)
		Furnace oil	HSD, SKO & LDO	
1975-76	8,841.12	81.91	0.39	-
1976-77	10,850.48	75.05	67.97	-
1977-78	13,081.39	80.77	103.35	-
1978-79	14,589.55	128.41	84.50	-
1979-80	15,940.70	103.63	134.58	-
1980-81	18,904.42	68.66	209.44	-
1981-82	22,251.24	77.47	229.56	-
1982-83	27,697.51	120.06	113.20	-
1983-84	30,298.69	175.55	86.63	-
1984-85	38,116.27	201.16	94.23	-
1985-86	39,809.78	283.49	142.51	-
1986-87	51,773.82	199.03	94.35	-
1987-88	59,220.57	231.51	52.00	-
1988-89	62,291.95	122.68	103.58	-
1989-90	72,461.50	53.50	78.02	-
1990-91	78,258.10	17.73	40.64	-
1991-92	83,803.43	68.87	75.78	-
1992-93	88,117.25	127.27	94.21	-
1993-94	92,064.05	122.70	113.79	-
1994-95	103,907.60	118.42	216.80	-
1995-96	106,592.75	75.58	200.49	-
1996-97	107,240.03	124.48	304.13	-
1997-98	120,376.26	108.47	320.11	-
1998-99	136,802.00	53.14	245.05	-
1999-00	141,330.13	137.35	110.49	-
2000-01	151,312.47	114.02	92.01	-
2001-02	151,577.35	102.10	66.00	-
2002-03	131,180.00	154.20	74.08	-
2003-04	134,482.37	209.17	114.32	-
2004-05	141,021.85	229.86	123.75	-
2005-06	153,920.65	204.85	149.61	0.19
2006-07	146,261.67	111.84	119.19	0.51
2007-08	150,991.54	137.11	111.52	0.45
2008-09	1,61,007.68	90.26	112.81	0.47
2009-10	1,66,557.42	9.74	124.69	0.48
2010-11	150,031.41	118.78	137.66	0.41
2011-12	151,047.84	182.48	59.89	0.45
2012-13	175,944.51	266.11	34.97	0.59
2013-14	183,522.79	424.72	175.00	0.54
2014-15	180,765.64	378.13	291.06	0.52
2015-16	207,838.44	439.33	238.22	0.49
2016-17	215,894.52	512.56	347.98	0.59
2017-18	211,341.98	615.35	795.34	0.82
2018-19	273,920.59	480.06	372.50	0.57

### Consumption of Fuel (Public Sector)





## Year Wise Fuel Cost of Public Sector Power Plants

Million Taka

Year	East Zone	West Zone	System Total	% Change over preceding Year
1991-92	3,337	1,484	4,821	-
1992-93	3,803	2,157	5,960	23.62
1993-94	4,085	2,388	6,473	8.61
1994-95	4,951	3,242	8,193	26.58
1995-96	5,072	2,828	7,900	(3.58)
1996-97	4,882	4,376	9,258	17.20
1997-98	5,809	4,479	10,289	11.13
1998-99	7,116	3,325	10,441	1.48
1999-00	7,732	2,080	9,812	(6.02)
2000-01	8,846	2,533	11,378	15.96
2001-02	9,152	2,474	11,626	2.18
2002-03	8,324	3,488	11,813	1.60
2003-04	8,482	4,926	13,409	13.51
2004-2005	9,313	6,757	16,070	19.85
2005-2006	8,945	7,385	16,330	1.62
2006-2007	7,265	9,494	16,759	2.63
2007-2008	8,759	8,194	16,953	1.16
2008-2009	6,624	11,609	18,232	7.54
2009-2010	7,120	9,245	16,364	(10.25)
2010-2011	6,431	12,632	19,063	16.49
2011-2012	13,831	14,740	28,571	49.88
2012-2013	18,885	18,380	37,266	30.43
2013-2014	23,430	32,822	56,252	50.95
2014-2015	23,307	36,946	60,253	7.11
2015-2016	31,753	30,137	61,890	2.72
2016-2017	32,261	35,699	67,960	9.81
2017-2018	55,611	50,098	105,709	55.55
2018-2019	38,427	30,157	68,584	(35.12)

## Fuel Price

SL. No.	Fuel Type	Unit price with effect from																				
		06.01.03	08.06.04	01.01.05	04.09.05	26.06.06	02.04.08	01.07.08	27.10.08	23.12.08	13.01.09	15.03.09	01.08.09	01.07.10	05.05.11	01.01.12	01.02.12	04.01.13	01.05.15	24.05.16	01.03.17	01.06.17
1.	High speed Diesel oil (TK./ Lit)	19.83	19.83	22.37	29.18	31.98	40.00	53.43	46.51	44.61	42.71	42.71	42.71	42.71	46.00	61.00	61.00	68.00	68.00	65.00	65.00	65.00
2.	Furnace oil (TK./ Lit)	10.00	12.00	12.00	14.00	14.00	20.00	30.00	30.00	30.00	30.00	26.00	26.00	26.00	42.00	60.00	60.00	60.00	60.00	42.00	42.00	42.00
3.	Natarul Gas (TK./ 1000 Cft)	70.00	70.00	73.91	73.91	73.91	73.91	73.91	73.91	73.91	73.91	73.91	79.82	79.82	79.82	79.82	79.82	79.82	79.82	79.82	84.65	89.46
4.	Coal (US \$./ M Ton)					60	60	71.5	71.5	71.5	71.5	71.5	86.00	86.00	86.00	105.00	105.00	130.00	130.00	130.00	130.00	130.00



## TRANSMISSION TABLES AND CHARTS

### CIRCLE WISE SUB-STATIONS CAPACITY (MVA)

(As of June 2019)

#### Summary of 400 KV HVDC Sub-station

S.N.	Name of Sub-station	Capacity
01	Bheramara HVDC Back to Back Sub-station	2x500 MW

#### Summary of 400/230 KV Sub-station Information

S.N.	Name of Sub-station	Circle	Capacity (MVA)
01	Bibiyana	Cumilla	1040
02	Kaliakoir	Dhaka (N)	1040
03	Ashuganj (N) (APSCL)	Cumilla	650
04	Bhulta	Dhaka (S)	1040
<b>Total</b>		<b>4 No's</b>	<b>3770</b>

#### Summary of 400/132 KV Sub-station Information

S.N.	Name of Sub-station	Circle	Capacity (MVA)
01	Kaliakoir	Dhaka (N)	650
<b>Total</b>		<b>1 No's</b>	<b>650</b>

#### Summary of Grid Circle wise 230/132KV Sub-station

S.N.	Circle Name	PGCB		BPDB/APSCL/NWPGCL		Private	
		No.'s of Sub-station	Capacity (MVA)	No.'s of Sub-station	Capacity (MVA)	No.'s of Sub-station	Capacity (MVA)
01	Bogura	2+1 (Switching)	1500	-	-	-	-
02	Chattogram	2	1200	-	-	2	660
03	Cumilla	2	750	1	300	-	-
04	Dhaka (N)	3	1950	1	250	-	-
05	Dhaka (S)	7+1 (Switching)	3825	-	-	-	-
06	HVDC	2	900	1	450	-	-
07	Khulna	2	1350	-	-	-	-
<b>Total</b>		<b>21</b>	<b>11475</b>	<b>3</b>	<b>1000</b>	<b>2</b>	<b>660</b>
<b>Grand Total (MVA)</b>		<b>26 No.'s</b>				<b>13135 MVA</b>	

#### Summary of Grid Circle wise 132/33KV Sub-station

S.N.	Circle Name	PGCB		BPDB/APSCL		DPDC, DESCO & Others	
		No.'s of S/S	Capacity (MVA)	No.'s of S/S	Capacity (MVA)	No.'s of S/S	Capacity (MVA)
01	Bogura	19	3892	-	-	-	-
02	Chattogram	15	2187	2	136.6	7	415
03	Cumilla	16	2620	1	116	-	-
04	Dhaka (N)	20	4772.6	1	126	7	1605
05	Dhaka (S)	10	2160	-	-	10	1213
06	HVDC	9	1731.3	-	-	1	61
07	Khulna	16	2544	1	60	-	-
<b>Total</b>		<b>105</b>	<b>19907</b>	<b>5</b>	<b>439</b>	<b>25</b>	<b>3294</b>
<b>Grand Total (MVA)</b>		<b>135 No's</b>				<b>23640 MVA</b>	

Dispatch Capacity at 33kV voltage level: 21870 MW



## Synopsis of Transmission Lines

### 400 KV Transmission Lines

(As of June 2019)

Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
1	HVDC Bheramara-Bangladesh Border (Baharampur)	27.35	54.7	Double	Twin Finch	1113 MCM
2	Aminbazar-Meghnaghat*	55	110	Double	Quad Egret	636 MCM
3	Cumilla(N)- Bangladesh Border**	28	56	Double	Twin Finch	1113 MCM
4	Bibiyana-Kaliakoir	169.53	339.06	Double	Twin Finch	1113 MCM
5	Ashuganj(N)-Bhulta	69	138	Double	Twin Finch	1113 MCM
	<b>Total</b>	<b>348.88</b>	<b>697.76</b>			

\* Presently Operated at 230kV

\*\* Presently Operated at 132kV

### 230 KV Transmission Lines

Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
1	Ghorashal-Ishurdi	175	350	Double	Mallard	795 MCM
2	Tongi - Ghorashal	27	54	Double	Mallard	795 MCM
3	Ghorashal - Ashuganj	44	88	Double	Mallard	795 MCM
4	Raojan - Hathazari	22.5	45	Double	Twin 300 sq.mm	
5	Ashuganj - Cumilla North	79	158	Double	Finch	1113 MCM
6	Ghorashal - Rampura	50	100	Double	Twin Mallard	2x795 MCM
7	Rampura - Haripur	22	44	Double	Twin Mallard	2x795 MCM
8	Haripur - Meghnaghat	12.5	25	Double	Twin Mallard	2x795 MCM
9	Meghnaghat - Hasnabad	24.5	49	Double	Twin Mallard	2x795 MCM
10	Cumilla North - Hathazari	151	302	Double	Finch	1113 MCM
11	AES, Haripur - Haripur	2.4	4.8	Double	Finch	1113 MCM
12	Cumilla North - Meghnaghat	58	116	Double	Twin Mallard	2x795 MCM
13	Tongi-Aminbazar	25.2	50.4	Double	Twin AAAC	37/4.176 mm.
14	Aminbazar-Hasnabad	21.5	43	Double	Twin AAAC	37/4.176 mm.
15	Siddhirganj 210 MW P/S -Haripur	1.5	1.5	Single	ACSR	600 sq. mm.
16	Ashuganj - Sirajganj	144	288	Double	Twin AAAC	37/4.176 mm.
17	Khulna-Bheramara HVDC	176.5	353	Double	Twin AAAC	37/4.176 mm.
18	Bheramara HVDC-Ishurdi	10.1	20.2	Double	Twin AAAC	37/4.176 mm.
19	Bogura-Barapukuria	106	212	Double	Twin AAAC	37/4.176 mm.
20	Sirajganj-Bogura	72.5	145	Double	Twin AAAC	37/4.176 mm.
21	Ishurdi-Baghabari	55	110	Double	Twin AAAC	37/4.176 mm.
22	Baghabari-Sirajganj	38	76	Double	Twin AAAC	37/4.176 mm.
23	Fenchuganj-Bibiyana	33.19	67.37	Double	Twin Mallard	2x795 MCM
24	Bibiyana-Cumilla(N)	153.55	307	Double	Twin Mallard	2x795 MCM
25	Aminbazar-Old Airport (O/H)	3.58	7.15	Double	Twin Mallard	2x795 MCM
26	Aminbazar-Old Airport (U/G)	4.01	8.03	Double	XLPE	2000 sq. mm.
27	Siddhirganj-Maniknagar	11	22	Double	Twin Mallard	2x795 MCM
28	Bhola-Barishal	62.5	125	Double	Twin Mallard	2x795 MCM
29	LILO of Cumilla(N)-Hathazari line at BSRM	0.18	0.72	Double	Finch	1113 MCM
30	LILO of Cumilla(N)-Hathazari line at AKSPL	6.5	13	Double	Finch	1113 MCM
31	LILO of Aminbazar-Tongi line at Kaliakoir	31.96	127.83	Four	Twin AAAC	37/4.176 mm.
32	Bheramara HVDC-Bheramara 230	3	12	Double	Twin AAAC	37/4.176 mm.
33	LILO of Ghorashal-Rampura at Bhulta	1.92	3.84	Double	Twin Mallard	2x795 MCM
34	LILO of Haripur-Rampura at Bhulta	2.62	10.49	Four	Twin Mallard	2x795 MCM
35	Haripur-Siddhirganj	1.65	3.3	Double	Twin Mallard	2x795 MCM
36	Bheramara HVDC- Ishwardi	12.8	25.6	Double	Quad Mallard	4x795 MCM
37	LILO of Tongi-Kaliakoir at Kodda PP	0.94	1.88	Double	Twin Mallard	2x795 MCM
38	LILO of Hasnabad-Aminbazar at Keraniganj	0.39	1.57	Four	Twin Mallard	2x795 MCM
39	Shikalbaha-Anowara	17.28	34.56	Double	Twin Mallard	2x795 MCM
40	LILO of Hasnabad-Meghnaghat at Shyampur	0.12	0.46	Four	Twin Mallard	2x795 MCM
	<b>Total</b>	<b>1665.39</b>	<b>3406.7</b>			

### 132 KV Transmission Lines

Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
1	Shahjibazar-Brahmanbaria	57	114	Double	Grosbeak	636 MCM
2	Brahmanbaria-Ashuganj	16.5	33	Double	Grosbeak	636 MCM
3	Ashuganj-Ghorashal	45.32	90.64	Double	Grosbeak	636 MCM
4	Ghorashal-Narsingdi	13.35	13.35	Single	Grosbeak	636 MCM
5	Narsingdi-Haripur	34.33	34.33	Single	Grosbeak	636 MCM



Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
6	Ghorashal-Bhulta	29.1	29.1	Single	Grosbeak	636 MCM
7	Bhulta-Haripur	15.25	15.25	Single	ACCC Grosbeak	636 MCM
8	Haripur-Siddhirganj	2	4	Double	Grosbeak	636 MCM
9	Shahjibazar-Shrimangal	36.2	72.4	Double	Grosbeak	636 MCM
10	Shrimangal-Fenchuganj	49	98	Double	Grosbeak	636 MCM
11	Fenchuganj-Fenchuganj PS	3.66	14.64	Four	ACCC Grosbeak	636 MCM
12	Fenchuganj-Sylhet	31.7	63.4	Double	ACCC Grosbeak	636 MCM
13	Sylhet-Chhatak	32.9	65.8	Double	Grosbeak	636 MCM
14	Kaptai-Hathazari	45	90	Double	Grosbeak	636 MCM
15	Hathazari-Feni	85.4	170.8	Double	Grosbeak	636 MCM
16	Feni-Cumilla (N)	66	132	Double	Grosbeak	636 MCM
17	Cumilla (N)- Daudkandi	55	110	Double	Grosbeak/AAAC	636 MCM
18	Daudkandi-Sonargaon	61.7	123.4	Double	Grosbeak/AAAC	636 MCM
19	Sonargaon-Haripur	15	30	Double	Grosbeak/AAAC	636 MCM
20	Haripur-Siddhirganj	2.25	4.5	Double	Grosbeak	636 MCM
21	Khulshi-Halishahar	13	26	Double	Grosbeak	636 MCM
22	Cumilla (N)-Chandpur	77.5	77.5	Single	Linnet + Grosbeak	(336.4 + 636) MCM
23	Cumilla (N)-Cumilla (S)	16	16	Single	Grosbeak	636 MCM
24	Cumilla (S)-Chandpur	62	62	Single	Linnet	336.4 MCM
25	Ashuganj-Kishoreganj	52	104	Double	ACCC Grosbeak	636 MCM
26	Kishoreganj-Mymensingh	59	118	Double	Grosbeak	636 MCM
27	Mymensingh-Jamalpur	55	110	Double	Grosbeak	636 MCM
28	Madunaghat-Shikalbaha	16.5	16.5	Single	Grosbeak	637 MCM
29	Madunaghat-TKC	8.5	8.5	Single	Grosbeak	636 MCM
30	TKC-Shikalbaha	8.5	8.5	Single	Grosbeak	636 MCM
31	Shikalbaha-Dohazari	32	64	Double	ACCC Grosbeak	636 MCM
32	Shikalbaha-Juldah	7.5	7.5	Single	AAAC	804 sq.mm
33	Juldah-Halishahar	8	8	Single	ACCC AAAC	804 sq.mm
34	Khulshi-Baroaulia	15	15	single	Grosbeak	636 MCM
35	Khulshi-AKSML	11	11	single	Grosbeak	636 MCM
36	AKSML-Baroaulia	4	4	single	Grosbeak	636 MCM
37	Madunaghat-Khulshi	13	13	Single	Grosbeak	636 MCM
38	Madunaghat-Khulshi	13	13	Single	Grosbeak	636 MCM
39	Kaptai-Chandraghona	11.5	23	Double	Grosbeak	636 MCM
40	Chandraghona-Madunaghat	27	54	Double	Grosbeak	636 MCM
41	Madunaghat-Hathazari	10.2	20.4	Double	Grosbeak	636 MCM
42	Hathazari-Baroaulia	11	22	Double	Grosbeak	636 MCM
43	Dohazari-Cox's Bazar	87	174	Double	Grosbeak	636 MCM
44	Feni-Chowmuhani	32	64	Double	Grosbeak	636 MCM
45	Baroaulia- Kabir Steel	4	4	Single	Grosbeak	636 MCM
46	Mymensingh-Netrokona	34	68	Double	Grosbeak	636 MCM
47	Goalpara-Khulna (C)	1.5	3	Double	AAAC	804 MCM
48	Khulna (C)-Noapara	22.8	45.6	Double	AAAC	804 MCM
49	Noapara-Jashore	27.9	55.8	Double	AAAC	804 MCM
50	Jashore-Jhenaidah	47.5	95	Double	AAAC	804 MCM
51	Jhenaidah-Kustia	43	86	Double	AAAC	804 MCM
52	Kustia-Bheramara	23	46	Double	ACCC Grosbeak	804 MCM
53	Bheramara-Ishwardi	10	20	Double	AAAC	804 MCM
54	Ishwardi-Natore	42	84	Double	AAAC	804 MCM
55	Natore-Bogura	61	122	Double	AAAC	804 MCM
56	Bogura-Palashbari	50	100	Double	AAAC	804 MCM
57	Palashbari-Rangpur	52	104	Double	AAAC	804 MCM
58	Rangpur-Saidpur	41.5	83	Double	AAAC	804 MCM
59	Saidpur-Purbasadipur	24.5	49	Double	AAAC	804 MCM
60	Purbasadipur-Thakurgaon	45	90	Double	AAAC	804 MCM
61	Goalpara-Bagerhat	45	45	Single	AAAC	804 MCM
62	Barishal-Bhandaria	49	49	Single	HAWK	477 MCM
63	Bhandaria-Bagerhat	40	40	Single	HAWK	477 MCM
64	Bagerhat-Mongla	28	28	Single	HAWK	477 MCM
65	Barishal-Patuakhali	38.2	38.2	Single	HAWK	477 MCM
66	Bheramara-Faridpur	105	210	Double	HAWK	477 MCM
67	Faridpur-Madaripur	65.5	131	Double	HAWK	477 MCM
68	Madaripur-Barishal	59	118	Double	HAWK	477 MCM
69	Rajshahi-Natore	37	37	Single	HAWK	477 MCM
70	Ishwardi-Baghabari	63	63	Single	HAWK	477 MCM
71	Baghabari-Shahjadpur	5	5	Single	HAWK	477 MCM



Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
72	Ishwardi-Pabna	18	18	Single	Grosbeak	636 MCM
73	Pabna-Shahjadpur	41	41	Single	Grosbeak	636 MCM
74	Bogura-Sirajganj	66	132	Double	Grosbeak	636 MCM
75	Sirajganj-Shahjadpur	34	34	Single	Grosbeak	636 MCM
76	Sirajganj-Baghabari	39.7	39.7	Single	Grosbeak	636 MCM
77	Rajshahi-Chapai Nawabganj	48	96	Double	Grosbeak	636 MCM
78	Rangpur-Lalmonirhat	38	38	Single	Grosbeak	636 MCM
79	Bogura-Naogaon	44	88	Double	ACCC Grosbeak	636 MCM
80	Kabirpur-Tangail	51	102	Double	Grosbeak	636 MCM
81	Tongi-Mirpur	17	17	Single	Grosbeak	636 MCM
82	Tongi-Uttara	14.5	14.5	Single	Grosbeak	636 MCM
83	Uttara-Mirpur	8.5	8.5	Single	Grosbeak	636 MCM
84	Mirpur-Aminbazar	7	14	Double	Grosbeak	636 MCM
85	Aminbazar-Kallayanpur	4	8	Double	Grosbeak	636 MCM
86	Hasnabad-Lalbagh	30	30	Single	Grosbeak	636 MCM
87	Kamrangirchar-Lalbagh	2.6	2.6	Single	Grosbeak	636 MCM
88	Kallayanpur-Kamrangirchar	11	11	Single	Grosbeak	636 MCM
89	Kallayanpur-Keraniganj	20	20	Single	Grosbeak	636 MCM
90	Hasnabad-Keraniganj	13.6	13.6	Single	Grosbeak	636 MCM
91	Tongi-New Tongi	0.5	1	Double	Grosbeak	636 MCM
92	Hasnabad-Sitalakhya	12.6	12.6	Single	Grosbeak	636 MCM
93	Madanganj-Sitalakhya	4	4	Single	Grosbeak	636 MCM
94	Hasnabad-Shyampur	21	21	Single	Grosbeak	636 MCM
95	Shyampur-Haripur	30	30	Single	Grosbeak	636 MCM
96	Madanganj-Haripur	12.4	12.4	Single	Grosbeak	636 MCM
97	Siddhirganj-Ullon	16	32	Double	Grosbeak	636 MCM
98	Haripur-Matuail	5.65	5.65	Single	Grosbeak	636 MCM
99	Maniknagar-Matuail	16	16	Single	Grosbeak	636 MCM
100	Siddhirganj-Maniknagar	10	10	Single	Grosbeak	636 MCM
101	Maniknagar-Bangabhaban	3	6	Double	Cu.Cable	240 sq.mm
102	Maniknagar-Narinda	5	10	Double	Cu.Cable	240 sq.mm
103	Ullon-Dhanmondi	5.5	11	Double	Cu.Cable	240 sq.mm
104	Ullon-Dhanmondi	5.5	11	Double	XLPE	500 sq.mm
105	Tongi-Kabirpur	22.5	45	Double	Grosbeak	636 MCM
106	Kabirpur-Manikganj	32	64	Double	Grosbeak	636 MCM
107	Ullon-Rampura	4	8	Double	Grosbeak	636 MCM
108	Rampura-Bashundhara	8	16	Double	Grosbeak	636 MCM
109	Bashundhara-Tongi	11	22	Double	Grosbeak	636 MCM
110	Rampura-Moghbazar	4.5	9	Double	Grosbeak	636 MCM
111	Ghorashal-Joydevpur	28	56	Double	Grosbeak	636 MCM
112	Baghabari-Shahjadpur	5.5	5.5	Single	Grosbeak	636 MCM
113	Chandpur-Chowmuhani	68	136	Double	Grosbeak	636 MCM
114	Barapukuria-Rangpur	42	84	Double	Grosbeak	636 MCM
115	Barapukuria-Saidpur	36	72	Double	Grosbeak	636 MCM
116	Madaripur-Gopalganj	45	45	Single	AAAC	804 MCM
117	Khulna (C)-Khulna(S)	9	18	Double	Twin AAAC	37/4.176 mm.
118	Khulna(S)-Satkhira	47	94	Double	AAAC	804 MCM
119	Rajshahi-Natore	40	40	Single	Grosbeak	636 MCM
120	Rampura-Gulshan	3.3	6.6	Double	XLPE	800 sq.mm
121	Shikalbaha-Bakulia	4	8	Double	Grosbeak	636 MCM
122	Juldah-Shahmirpur	6	12	Double	Grosbeak	636 MCM
123	Khulshi-Bakulia	15	30	Double	Grosbeak	636 MCM
124	Haripur-Maniknagar	13	13	Single	Grosbeak	636 MCM
125	Joydevpur-Kodda PP	8	16	Double	Grosbeak	636 MCM
126	Kodda PP-Kabirpur	10	20	Double	Grosbeak	636 MCM
127	Shikalbaha-Shahmirpur	9	18	Double	Grosbeak	636 MCM
128	Khulshi-Halishahar (Open atKhulshi)	13	13	Single	Grosbeak	636 MCM
129	BoguraOld-BoguraNew	1.5	3	Double	Twin AAAC	37/4.176 mm.
130	Ashuganj-Shahjibazar	53	53	Single	Grosbeak	636 MCM
131	Khulna (S) -Gallamari	4.2	8.4	Double	Grosbeak	636 MCM
132	Naogaon-Niyamatpur	46	46	Single	AAAC	804 MCM
133	Aminbazar-Savar	15.8	31.6	Double	Grosbeak	636 MCM
134	Jhenaidah-Magura	26.5	26.5	Single	Grosbeak	636 MCM
135	Jhenaidah-Chuadanga	39.3	39.3	Single	Grosbeak	636 MCM
136	Naogaon-Joypurhat	46.2	46.2	Single	Grosbeak	636 MCM
137	Thakurgaon-Panchagarh	45	45	Single	AAAC	636 MCM



Sl. No.	Name of Lines	Length in Route Kilometers	Length in Ckt. Kilometers	No. of Ckt.	Conductor	
					Name	Size
138	Sonargaon S/S to Megnaghat Rental PP	5	10	Double	Grosbeak	636 MCM
139	Shiddhirganj to Shiddhirganj Dutch Bangla PP	2.4	2.4	Single	Grosbeak	636 MCM
140	Goalpara-Khulna ©	2.4	2.4	Single	XLPE	
141	Noapara PP to Noapara Ss	1.6	1.6	Single	Grosbeak	Grosbeak
142	Daudkandi PP to Daudkandi ss	1.3	1.3	Single	Grosbeak	Grosbeak
143	Gopalganj PP to Gopalganj ss	1.2	1.2	Single	Grosbeak	Grosbeak
144	Shiddhirganj desh energy PP to Shiddhirganj ss	2.5	2.5	Single	Grosbeak	Grosbeak
145	Faridpur PP to Faridpur -Bheramara	1	1	Single	Grosbeak	Grosbeak
146	Bera PP to Baghabari -Ishwardi line	4.5	4.5	Single	Grosbeak	Grosbeak
147	Amnura PP to Rajshahi-Chapai	12.6	12.6	Single	Grosbeak	Grosbeak
148	Madanganj-Munsiganj	4	8	Double	Grosbeak	Grosbeak
149	Old Airport-Cantonment	6.99	13.98	Double	XLPE	800 sq.mm
150	Fenchuganj- Kulaura	25	50	Double	Grosbeak	636 MCM
151	Jamalpur- Sherpur	20	40	Double	Grosbeak	636 MCM
152	Old Airport-Sajmasjid	8.294	16.588	Double	XLPE	800 sq.mm
153	Rampura-Madertek	4.5	9	Double	XLPE	500 sq.mm
154	Cumilla(N)- Cumilla(S)	19	38	Double	Grosbeak	636 MCM
155	Goalpara-Bagerhat New	45	90	Double	Grosbeak	636 MCM
156	LILO of Kabirpur-Tangail at Kaliakoir	4.28	17.12	Four	Grosbeak	636 MCM
157	Tangail-RPCL	93.44	186.88	Double	Grosbeak	636 MCM
158	Amnura-Chapai Nawabganj	12.6	12.6	Single	Grosbeak	636 MCM
159	Kaliakoir-Dhamrai	22.73	45.46	Double	Grosbeak	636 MCM
160	Rangamati-Khagrachari	52.3	104.6	Double	Grosbeak	636 MCM
161	Chandraghona-Rangamati	27.7	55.4	Double	Grosbeak	636 MCM
162	Chhatak-Sunamganj	32.05	64.1	Double	Grosbeak	636 MCM
163	Beanibazar-Sylhet T-Connection	30	60	Double	Grosbeak	636 MCM
164	LILO of Tongi-Mirpur Single circuit at Uttara 3P	1.1	2.2	Single	XLPE	800 sq.mm
165	T-connection from Dohazari-Cox's Bazar to Matarbari	18.1	18.1	Single	Grosbeak	636 MCM
166	LILO of Feni-Hathazari double circuit line at Baroirhat	3.1	12.588	Four	Grosbeak	636 MCM
167	Brahmanbaria-Narsingdi	54.8	109.6	Double	Grosbeak	636 MCM
168	Saidpur-Jaldhaka	30	59.902	Double	Grosbeak	636 MCM
169	RNPP-Ishurdi	7	14	Double	Grosbeak	636 MCM
170	Confedence PP - Bogura 230kv	7.9	15.7	Double	Grosbeak	637 MCM
171	LILO of Jamalpur-Sherpur at United PP	3.3	13.36	Four	Grosbeak	638 MCM
172	LILO of Goalpara-Bagerhat single circuit at Labanchora PP	6.2	12.3	Double	Grosbeak	639 MCM
173	Mymensingh-Bhaluka	43	86	Double	Grosbeak	636 MCM
174	LILO of Bogura-Palashbari at Mahasthangarh	0.7	1.36	Double	Grosbeak	636 MCM
175	Modhumati PP - Gopalganj	14.6	14.6	Single	Grosbeak	636 MCM
176	Jashore-Benapole	30.5	60.936	Double	Grosbeak	636 MCM
177	Madaripur-Shariatpur	22	44	Double	Grosbeak	636 MCM
178	LILO of Shyampur-Haripur at Shyampur	0.2	0.792	Four	Grosbeak	Grosbeak
<b>Total</b>		<b>4512.494</b>	<b>7545.426</b>			

## DISTRIBUTION TABLES AND CHARTS

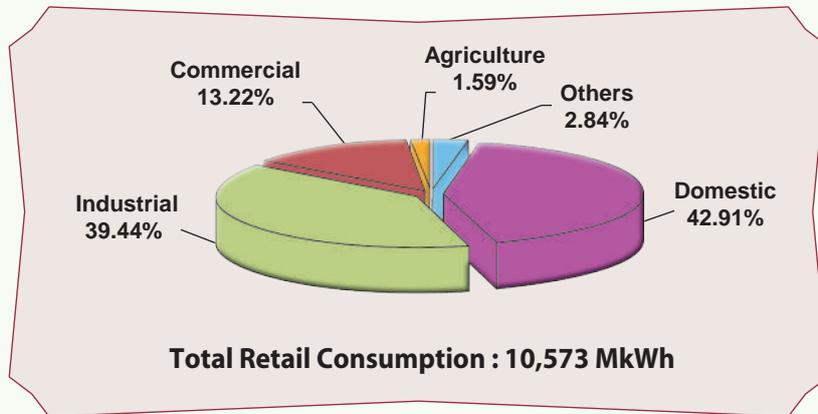
### Distribution Zone Wise Energy Import and Energy Sales Statistics of BPDB

Distribution Zone's Name	Energy Imported (MkWh)		Energy Sold (MkWh)		Distribution System loss (%)		
	2017-18	2018-19	2017-18	2018-19	2017-18	2018-19	% Change over previous year
Mymensingh	1984.14	2138.26	1777.99	1929.75	10.39	9.75	-6.16
Chattogram	4152.36	4378.48	3774.81	4022.20	9.09	8.14	-10.45
Cumilla	1450.19	1576.46	1298.66	1417.30	10.45	10.10	-3.35
Sylhet	940.72	974.16	833.42	870.63	11.41	10.63	-6.84
Others	2009.57	2333.11	2009.17	2332.67	4.05	4.13	-1.98
<b>Total</b>	<b>10536.98</b>	<b>11400.47</b>	<b>9694.05</b>	<b>10572.55</b>	<b>8.00</b>	<b>7.26</b>	<b>-9.25</b>



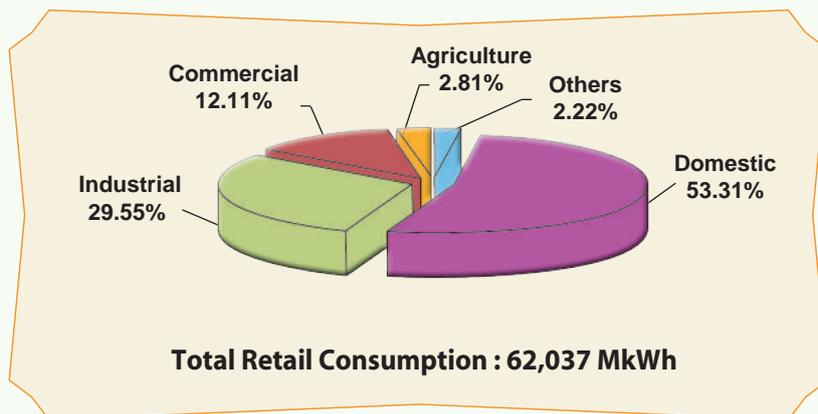
## Consumption Pattern of BPDB

(FY 2018-19)



## Consumption Pattern of the Country

(FY 2018-19)



## Distribution Zone Wise Billing and Collection Statistics of BPDB

Distribution Zone's Name	Billed Amount (Million Tk)		Collected Amount (Million Tk)		Accounts Receivable (Million Tk)			Coll/Bill Ratio (%)		C/I Ratio (%)	
	2017-18	2018-19	2017-18	2018-19	2017-18	2018-19	% increase over the previous year	2017-18	2018-19	2017-18	2018-19
Mymensingh	10,683	11,498	10,340	11,575	5,000	4,842	-3.16	96.79	100.68	86.73	90.86
Chattogram	25,820	28,054	26,117	28,295	3,545	3,383	-4.57	101.15	100.86	91.95	92.65
Cumilla	8,461	9,522	8,402	9,467	1,874	1,935	3.29	99.30	99.42	88.93	89.38
Sylhet	5,674	6,111	5,368	6,056	2,157	2,131	-1.21	94.62	99.10	83.83	88.57
Large Consumer	15,349	18,180	15,851	18,079	865	1,994	130.45	103.47	99.55	103.47	99.55
<b>Total</b>	<b>65,987</b>	<b>73,365</b>	<b>66,078</b>	<b>73,473</b>	<b>13,440</b>	<b>14,284</b>	<b>6.28</b>	<b>100.14</b>	<b>100.15</b>	<b>92.13</b>	<b>92.87</b>



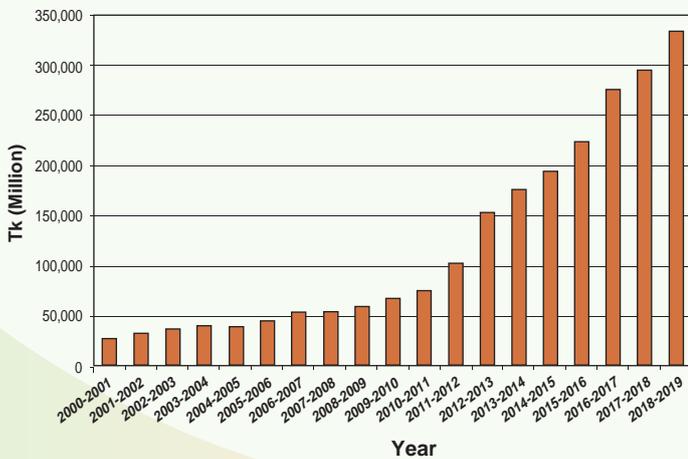
## Revenue Collection (Bulk)

Year	Million Taka	% Change over previous year
1995-1996	16,791	7.05
1996-1997	16,015	-4.62
1997-1998	17,199	7.39
1998-1999	16,235	-5.61
1999-2000	22,450	38.28
2000-2001	27,017	20.34
2000-2002	31,373	16.12
2002-2003	36,066	14.96
2003-2004	39,608	9.82
2004-2005	39,177	-1.09
2005-2006	44,284	13.03
2006-2007	52,799	19.23
2007-2008	54,060	2.39
2008-2009	58,922	8.99
2009-2010	66,776	13.33
2010-2011	74,303	11.27
2011-2012	102,242	37.60
2012-2013	151,711	48.38
2013-2014	174,740	15.18
2014-2015	193,013	10.46
2015-2016	222,382	15.22
2016-2017	274,355	23.37
2017-2018	293,725	7.06
2018-2019	332,294	13.13

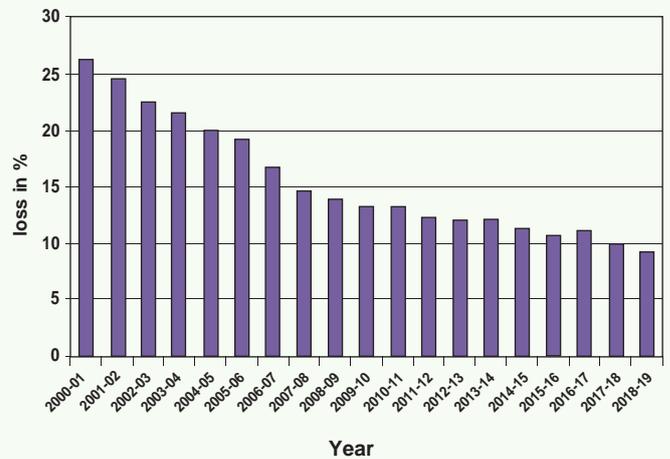
## Distribution System Loss (BPDB)

Year	Distribution System loss In %
1991-92	35.79
1992-93	31.24
1993-94	30.72
1994-95	29.94
1995-96	29.09
1996-97	28.28
1997-98	29.82
1998-99	30.56
1999-00	27.73
2000-01	26.11
2001-02	24.5
2002-03	22.35
2003-04	21.33
2004-05	20
2005-06	19.06
2006-07	16.58
2007-08	14.43
2008-09	13.57
2009-10	13.10
2010-11	13.06
2011-12	12.15
2012-13	11.95
2013-14	11.89
2014-15	11.17
2015-16	10.66
2016-17	10.92
2017-18	9.89
2018-19	9.12

## Net Revenue Collection



## Distribution System Loss





## Category Wise Consumer Growth

In Nos.

Year	Domestic	Agriculture	Small Industrial	Small Commercial	Large Inds. & Comm.	REB	DPDC/ Others	DESCO	WZPDCL	NESCO	Others	Total	% Increase Over the Preceeding Year
	A	B	C	E	F+H	I1	G1+G2+G3	I2	I3	I4	D+J		
1981-82	390,450	5,549	40,703	204,834	1,403	16	-	-	-	-	2,121	645,076	-
1982-83	418,532	6,603	34,595	205,629	1,531	22	-	-	-	-	2,287	669,199	3.74
1983-84	461,043	7,754	35,762	214,250	1,632	25	-	-	-	-	7,119	727,585	8.72
1984-85	518,532	8,637	39,730	226,670	1,657	33	-	-	-	-	8,508	803,767	10.47
1985-86	574,907	11,773	42,688	244,703	1,798	37	-	-	-	-	12,704	888,610	10.56
1986-87	632,814	10,885	45,666	257,510	1,931	48	-	-	-	-	14,238	963,092	8.38
1987-88	697,254	12,279	47,057	266,258	1,922	51	-	-	-	-	13,568	1,038,389	7.82
1988-89	784,951	14,104	48,659	285,629	2,027	59	-	-	-	-	16,253	1,151,682	10.91
1989-90	815,059	10,705	47,454	281,818	2,975	67	-	-	-	-	16,494	1,174,572	1.99
1990-91	853,959	12,828	48,479	287,498	3,251	77	-	-	-	-	17,872	1,223,964	4.21
1991-92	606,627	11,675	35,943	231,450	1,294	82	6	-	-	-	15,924	903,001	-26.22
1992-93	649,173	16,670	36,969	230,096	1,375	93	6	-	-	-	18,227	952,609	5.49
1993-94	708,118	17,854	38,395	237,922	1,437	102	6	-	-	-	22,015	1,025,849	7.69
1994-95	750,273	17,974	39,702	245,234	1,486	118	6	-	-	-	20,941	1,075,734	4.86
1995-96	811,370	19,807	41,313	260,167	1,514	130	6	-	-	-	22,365	1,156,672	7.52
1996-97	858,354	17,878	42,248	267,197	1,595	143	6	-	-	-	22,711	1,210,132	4.62
1997-98	923,117	18,387	43,856	283,032	1,714	158	6	-	-	-	23,393	1,293,663	6.90
1998-99	963,319	17,142	43,742	287,636	1,748	178	6	-	-	-	23,099	1,336,870	3.34
1999-00	1,043,977	17,872	44,793	299,896	1,801	179	6	-	-	-	24,293	1,432,817	7.18
2000-01	1,134,074	18,293	45,816	316,629	1,890	182	6	-	-	-	25,760	1,542,650	7.67
2001-02	1,221,324	17,215	46,068	331,224	1,999	199	6	-	-	-	26,720	1,644,755	6.62
2002-03	1,270,727	15,084	44,432	331,997	2,038	212	6	-	-	-	25,955	1,690,451	2.78
2003-04	1,359,724	14,284	44,018	347,635	2,183	246	4	1	-	-	26,863	1,794,958	6.18
2004-05	1,114,679	12,484	34,472	273,957	1,867	266	4	1	1	-	21,593	1,459,324	-18.70
2005-06	1,165,265	14,911	34,574	280,079	2,010	275	4	1	1	-	21,771	1,518,891	4.08
2006-07	1,272,144	17,693	35,561	297,213	2,163	184	5	1	1	-	23,450	1,648,415	8.53
2007-08	1,385,424	21,191	37,065	312,041	2,299	185	5	1	1	-	25,083	1,783,295	8.18
2008-09	1,495,195	25,175	39,114	333,818	2,534	185	5	1	1	-	26,333	1,922,361	7.80
2009-10	1,621,596	28,724	40,903	345,605	2,689	185	6	1	1	-	27,628	2,067,338	7.54
2010-11	1,704,936	30,523	41,607	351,673	2,846	185	7	1	1	-	27,846	2,159,625	4.46
2011-12	1,947,827	36,506	43,241	372,245	3,184	70	7	1	1	-	28,973	2,432,055	12.61
2012-13	2,146,940	39,810	44,809	386,947	3,464	70	9	1	1	-	31,968	2,654,019	9.13
2013-14	2,378,278	45,042	45,792	396,776	3,780	71	9	1	1	-	31,559	2,901,309	9.32
2014-15	2,606,764	49,937	47,215	416,197	4,125	71	10	1	1	-	32,783	3,157,104	8.82
2015-16	2,868,941	54,952	48,764	444,140	4,471	82	12	1	1	-	35,899	3,457,263	9.51
2016-17	2,111,564	32,951	31,396	321,931	3,513	84	13	1	1	1	25,227	2,526,68	-26.92 ☆
2017-18	2,360,627	34,807	38,041	336,526	3,848	85	14	1	1	1	28,000	2,801,951	10.89
2018-19	2,573,705	35,727	39,129	361,479	4,214	85	14	1	1	1	31,901	3,046,257	8.72

**A** = Residential Light & Fan

**B** = Agricultural pump

**C** = Small Industry

**D** = Non residential light & Fan

**E** = Commercial

**F** = Medium voltage general purpose

**G** = DPDC/Others

**H** = High voltage general purpose

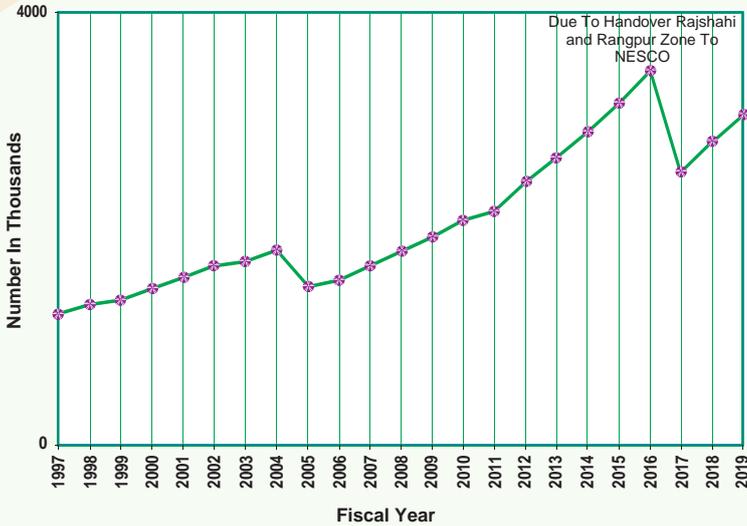
**I** = REB/PBS

**J** = Street light and water pump

☆ Due to Handover of Rajshahi & Rangpur Zone to NESCO.



## Consumer Growth



Power Sale-Purchase Agreement between BPDB and BREG & DPDC.



Hon'ble State Minister for Power Energy & Mineral Resources  
Mr. Nasrul Hamid MP presiding over a meeting on  
progress of power projects in the country.

## Electrification of Thana Villages and Pumps

Year	Upazila/ Thana (Nos.)	Village (Nos.)	Hat/Bazar (Nos.)	Deep, Shallow & Low Lift Pumps (Nos.)
1971-72	111	250	--	551
1972-73	123	300	--	551
1973-74	133	326	--	594
1974-75	161	500	--	710
1975-76	237	1024	--	984
1976-77	295	1424	410	1280
1977-78	321	1518	448	1911
1978-79	335	1596	481	2317
1979-80	357	1675	506	4406
1980-81	377	1675	786	6155
1981-82	388	1956	903	7270
1982-83	403	2054	1050	8287
1983-84	417	2104	1078	8559
1984-85	422	2191	1096	8762
1985-86	432	2361	1181	9368
1986-87	437	2461	1231	9593
1987-88	437	2561	1275	9875
1988-89	438	2612	1326	10428
1989-90	438	2,657	1,371	11,031
1990-91	438	2,717	1,391	12,331
1991-92	438	2,767	1,411	14,033
1992-93	438	2,807	1,431	16,023
1993-94	438	2,837	1,446	16,943
1994-95	443	2,867	1,466	17,193
1995-96	443	2,927	1,513	18,622
1996-97	443	3,017	1,581	19,774
1997-98	443	3,061	1,613	19,969
1998-99	443	3,111	1,668	20,157
1999-00	443	3,201	1,718	20,307
2000-01	443	3,292	1,768	20,467
2001-02	443	3,356	1,858	20,687
2002-03	443	3,400	1,958	20,812
2003-04	443	3,432	2,040	20,928
2004-05	443	3,478	2,080	20,993
2005-06	443	3,495	2,113	21,020
2006-07	443	3,495	2,113	21,020
2007-08	443	3,495	2,113	21,020
2008-09	221	4,204	1,410	26,572
2009-10 *	236	4,792	1,626	29,626
2010-11 *	236	4,792	1,780	30,405
2011-12 *	236	4,810	1,880	30,933
2012-13 *	236	5,344	1,863	36,232
2013-14 *	243	5,393	2,044	43,822
2014-15 *	246	5,735	2,138	45,010
2015-16 *	256	5,947	2,241	41,835
2016-17 **	173	3,778	1,389	28,018
2017-18 **	175	4,023	1,443	28,020
2018-19 **	195	4,646	1,666	35,332

\* Excluding DPDC, DESCO, WZPDCO & REB

\*\* Excluding DPDC, DESCO, WZPDCO, NESCO & REB



## Total Electrified Areas & Consumer Numbers of BPDB (As of June 2019)

Sl. No.	Name of Divi./ESU	Total Electrified Area					Total Consumers
		Thana/ Upazila	Ward	Village	Hat / Bazar	Deep, Shallow & Low Fit Pump	
<b>Southern Zone, Chattogram</b>							
<b>O &amp; M Circle, Chatta-Metro (East)</b>							
1	S&D Patharghata	3	6	0	8	0	52882
2	S&D Stadium	2	5	0	0	0	36902
3	S&D Sholoshahar	4	4	0	6	0	68150
4	S&D Kalurghat	4	6	0	4	0	65723
5	S&D Bakalia	5	5	0	10	9	80561
6	S&D Madarbari	2	4	0	5	0	32551
<b>O &amp; M Circle, Chatta-Metro (West)</b>							
7	S&D Agrabad	3	7	0	0	0	50525
9	S&D Khulshi	4	4	0	0	1	47492
8	S&D Haliashahar	2	3	0	4	0	44616
10	S&D Pahartali	4	6	0	6	0	76416
11	S&D Rampur	3	4	0	2	0	54252
12	S&D Newmooring	3	2	0	5	0	37974
<b>O &amp; M Circle, Chatta-Metro (North)</b>							
13	DD Fouzderhat	1	9	20	14	0	26007
	Sandwip Electric Supply	1	15	15	10	0	5307
14	S&D Barabkunda	1	37	90	32	2	31086
15	S&D Hathazari	1	26	40	17	24	44776
16	S&D Mohora	2	22	39	16	18	31573
<b>O &amp; M Circle, Chatta-Metro (South)</b>							
17	Dist. Divn. Patiya	6	75	230	60	280	67847
18	Dist. Divn. Cox's Bazar	7	176	409	56	552	92928
<b>O &amp; M Circle, Rangamati</b>							
19	Dist. Divn. Khagrachari	12	164	410	110	148	60032
20	Dist. Divn. Rangamati	8	99	241	24	25	48652
21	Bandarban	4	110	265	33	38	17665
<b>Sub Total</b>		<b>82</b>	<b>789</b>	<b>1759</b>	<b>422</b>	<b>1088</b>	<b>1073917</b>
<b>Cumilla Zone</b>							
<b>O &amp; M Circle, Cumilla</b>							
1	S&D-1, Cumilla	3	20	97	22	135	62768
2	Burichang E/S	1	2	4	8	20	11605
3	S&D-2 Cumilla	2	4	120	30	210	51509
4	Chauddagam E/S	1	9	71	5	216	13685
5	S & D-3. Cumilla	1	10	72	6	137	37782
6	S & D, Daulatganj	1	5	20	5	525	27646
7	S & D Chandpur	1	15	25	11	13	59278
8	B. Baria	3	6	77	16	679	81244
9	S & D, Ashuganj	1	3	11	5	74	22839
10	S & D, Sarail	1	3	17	6	426	30551
<b>O &amp; M Circle, Noakhali</b>							
11	Maijdi (Noakhali)	3	14	37	24	21	58180
12	S & D, Chowmuhani	1	12	9	8	1	32405
13	S&D-Feni	2	18	10	3	115	62426
14	Bashurhat E/S	-	0	0	0	-	18615
15	S&D-Laxmipur	1	12	12	1	110	31536
16	Hatiya E/S	1	6	20	15	0	2591
<b>Sub Total</b>		<b>23</b>	<b>139</b>	<b>602</b>	<b>165</b>	<b>2682</b>	<b>604660</b>



Sl. No.	Name of Divi./ESU	Total Electrified Area					Total Consumers
		Thana/ Upazila	Ward	Village	Hat / Bazar	Deep, Shallow & Low Fit Pump	
<b>Central Zone, Mymensingh</b>							
<b>O &amp; M Circle, Mymensingh</b>							
1	S & D -1 (N)	2	47	96	53	680	79078
2	S & D -2 (S)	2	70	98	30	1301	68618
3	S & D -3	5	62	110	83	4294	5499
4	S & D Fulpur	3	30	55	82	1679	42250
5	S & D Trishal	1	32	80	28	846	37673
6	S & D Goffargoan	2	16	72	44	1400	52000
7	Netrokona E/S	1	9	20	8	1530	38901
8	Dist. Div. Kishorganj	1	25	60	15	369	51165
9	S & D Bajitpur	1	15	70	25	366	18447
10	Bhairab E/S	2	56	156	51	1256	66127
11	Sist. Div. Sherpur	5	30	110	82	3879	78688
12	S&D, Valuka	1	23	72	29	1060	24922
<b>O &amp; M Circle, Tangail</b>							
13	S & D, Jamalpur	4	23	51	16	1367	56915
14	Sharishabari E/S	2	12	39	7	2524	20288
15	S & D, Ghatail	2	28	39	38	890	35851
16	S & D, Shakhipur	8	29	75	55	711	60740
17	S & D, Bhuapur	4	103	140	40	1427	38655
18	S & D, Kalithati	2	20	33	33	1486	34652
19	S & D-1, Tangail	3	15	68	16	260	38412
20	S & D-2, Tangail	3	17	60	70	2354	42244
21	S & D-3, Tangail	2	11	59	13	1655	24825
<b>Sub Total</b>		<b>56</b>	<b>673</b>	<b>1563</b>	<b>818</b>	<b>31334</b>	<b>915950</b>
<b>Sylhet Zone</b>							
<b>O &amp; M Circle, Sylhet</b>							
1	S & D-1	1	15	21	1	40	61560
2	S & D-2	1	10	55	32	-	81071
3	S & D-3	1	4	12	44	15	34787
4	S & D-4	2	33	103	24	15	37063
5	S & D-Chatak	4	10	115	50	58	30161
6	S & D-Sunamganj	3	31	112	33	10	24488
7	Derai E/S	3	9	19	11	17	13139
<b>O &amp; M Circle, Moulavibazar</b>							
8	Dist. Div. Moulavibazar	1	9	12	3	5	25126
9	S & D-Hobigonj	2	15	30	13	52	31548
10	S & D-Kulaura	4	9	82	19	-	34987
11	Jogonathpur E/S	9	5	91	16	4	17891
12	Jaintapur E/S	3	38	70	15	12	16266
<b>Sub Total</b>		<b>34</b>	<b>188</b>	<b>722</b>	<b>261</b>	<b>228</b>	<b>408087</b>
<b>Total</b>		<b>195</b>	<b>1789</b>	<b>4646</b>	<b>1666</b>	<b>35332</b>	<b>3002614</b>



## Synopsis of Distribution lines of BPDB

(As of June 2019)

Name of the Divn./ESU	Name of Sub-station	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
<b>Southern Zone, Chattogram</b>				
<b>O &amp; M Circle, Chatta-Metro (East)</b>				
S & D Pathargahta	Patharghat 33/11 KV	19	48	66
S & D Stadium	Stadium 33/11 KV	29	83	99
S & D Sholoshahar	Sholoshahar 33/11 KV	60	100	145
S & D Kalurghat	33/11 KV Kalurghat	23	51	76
	33/11 KV Muradpur	18	27	48
S & D Bakulia	Bakulia	0	114	214
S & D Madarbari	Madarbari	13	57	121
<b>O &amp; M Circle, Chatta-Metro (West)</b>				
S & D Agrabad	Agrabad 33/11 kV	26	120	170
S & D Khulshi	Khushi 33/11 kV	8.8	27.5	20.2
	Jalalabad 33/11 kV	8.3	37.7	35.5
S & D Halishahar	Halishahar 33/11 kV	35	59.75	74.2
	Patenga 33/11 kV	10	50.1	74.45
S & D Pahartoly	Pahartoly	28	155	205
S & D Rampur	Rampur	21	60.6	100.15
S & D Newmoring	Newmooring 33/11 kV	18.5	90	140
<b>O &amp; M Circle, Chatta-Metro (North)</b>				
Dist. Divn. Fouzderhat	Fouzderhat	8	62	105
	Baraulia	47	95	150
Sandwip Electric Supply		1	55	95
S & D Hathazari	Hathazari	2	140	220
	Foteyabad	8		
S & D Barabkunda	Barabkunda	43	104	156
S & D Mohara	33/11KV Mohra Substation	26	192	228
<b>O &amp; M Circle, Chatta-Metro (South)</b>				
Dist. Divn. Potiya	Patiya	0	45.0	75
	Fishharbor	0	37.5	55
	Sikalbhaha	78	40.5	50
	Julda	23	18.0	28
	Sahmirpur	19	0.0	0
	Dohazari	42	40.0	78
	Satkania	0	39.0	74
Dist. Divn. Cox's Bazar	Zilonza-chokoria-ramu-naikhalchori	85	154.0	185
	Kolatoli	10	89.0	41
	Aziznagar-chakaria	17	54.0	107
	Dohajari-Aziznagar	50	51.0	25
	Lama	28	128.0	178
<b>O &amp; M Circle, Rangamati</b>				
Dist. Divn. Khagrachari	Manikchari 33/11 KV	30	73	74
	Jaliapara (Matiranga) 33/11 KV	50	60	105
	Ramgarh 33/11 KV	70	50	71
	Khagrachari 33/11 KV	126	80	212
	Panchari 33/11 KV	35	65	90
	Dighinala 33/11 KV	35	156	220
	Mohalchari 33/11 KV	62	95	110
	Vedvedi 33/11 KV	167	67	150
Dist. Divn. Rangamati	Majerbosti 33/11 KV	6	87	149
	Kawkhali 33/11 KV	14	22	30
	Ghagra 33/11 KV	0	93	110
	Kaptai Academy 33/11 KV	16	55	65
	Kaptai 132/33/11 KV	0	55	40
	Bangalhalia 33/11 KV	17	36	30
	Marishya 33/11 KV	23	35	55



Name of the Divn./ESU	Name of Sub-station	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
Dist. Divn Bandarban	Office	58	120	95
	Kachinghata	6	150	85
	Y-Junction	18	62	30
	Thanchi	50	30	10
<b>Sub Total</b>		<b>1588</b>	<b>3815</b>	<b>5170</b>
<b>Cumilla Zone</b>				
<b>O &amp; M Circle, Cumilla</b>				
S & D- 1, Cumilla	Kotbari	57	43	96
	Kaliajuri	10	135	248
Burichang E/S	Palpara	8	46	110
S & D- 2, Cumilla	Balutupa	32	110	232
Chouddagram E/S	Chouddagram	33	34	15
S & D- 3, Cumilla	Jangalia	0	38	137
S & D, Daulatganj	Daulatganj	35	39	152
S & D, Chandpur	Balur Math	2	33	102
	Puran Bazar	0	30	83
B. Baria E/S	Datiara	8	94	128
	Ghatara	25	101	70
S & D, Ashuganj	Kalabagan	0	32	33
	Shahbazpur	6	48	93
S & D, Sarail	Kuttapara	12	20	
<b>O &amp; M Circle, Noakhali</b>				
Majjidee E/S	Majjidee	10	16	37
	Datterhat	20	74	166
Chowmuhani E/S	Chowmuhani	0	83	190
Hatiya E/S	Hatiya	0	60	30
S & D, Laxmipur	Laxmipur	75	59	350
S&D.Feni	Mohipal	81	37	205
	Sultanpur	10	42	
Bosurhat E/S	Dagonbuyan	13	25	70
<b>Sub Total</b>		<b>437</b>	<b>1199</b>	<b>2547</b>
<b>Central Zone, Mymensingh</b>				
<b>O &amp; M Circle, Mymensingh</b>				
S & D- 1 (North)	Akua	27	110	148
	Batircal	6	37	52
S & D- 3	Shambuganj	14	60	115
	Gauripur	26	70	140
	Ishawrganj	30	65	80
S & D Fulpur	Fulpur	35	95	190
	Haluaghat	40	110	125
S & D- 2 (South)	Kewatkhali	0	245	177
	Digarkanda (byPass)	5	95	152
S & D Trisal	Trisal	38	142	126
S & D Goffargoan	Mymensing-Balipara	33	30	40
	Majbari	12	70	85
	Balipara-Goffargoan	21	90	150
S & D Netrokona	Satpai Netrokona	14	82	155
S & D Bhairab	Bhairab	28	70	115
	Kuliachor	20	40	70
S & D Sherpur	Sherpur	56	120	215
	Nakla	12	50	92
	Nalitabari	10	45	85
	Jinaighat	27	50	105
	Sribordi	27	45	98
Dist. Divn. Kishorganj	Josodal	0	115	110
	Mollapara	11	55	55
S & D Bajitpur	Sararchar	55	130	150
S & D Bhaluka	Bhaluka	45	85	150



Name of the Divn. /ESU	Name of Sub-station	33 KV Feeder Length (km)	11 KV Feeder Length (km)	0.4 KV Feeder Length (km)
<b>O &amp; M Circle, Tangail</b>				
Jamalpur E/S	Bojrapur	122	232	375
	Shahpur			
	Shekhervita			
Sharishabari E/S	Sharishabari	26	110	95
Ghatail E/S	Ghatail	45	142	368
S & D Shakipur	Kutubpur	18	70	70
	Nalua	34	55	95
	Shakipur	40	284	495
S & D Bhuapur	Bhuapur	30	190	370
S & D Kalihati	Kalihati	32	101	422
S & D -1 Tangail	Betka	41	162	343
S & D -2 Tangail	Kachudanga	8	235	580
S & D -3 Tangail	Elega	11	102	170
<b>Sub Total</b>		<b>999</b>	<b>3789</b>	<b>6363</b>
<b>Sylhet Zone</b>				
<b>O &amp; M Circle, Sylhet</b>				
S & D -1	Ambarkhana	7	180	355
	Shekhghat	5	70	140
S & D -2	Upshahar	22	148	240
	Botessor	28	95	275
	MC Collage	10	33	64
-	Ring Feeder	11	0	0
S & D -3	Gotatikor	11	138	220
	Boroikandi			
S & D -4	Kumargaon	0	225	465
	Shajalal	0.5	60	125
S & D Sunamganj	Sunamganj	60	83	171
S & D Chatak	Chatak	48	135	220
	Jawa bazar	42	52	105
Derai E/S	Derai	38	90	160
<b>O &amp; M Circle, Moulvibazar</b>				
Dist. Div. Moulvibazar	Bajbari	25	29	41
	Shamostafa	45	49	71
S & D Hobiganj	Hobiganj (Old)	34	85	475
	second source	25	0	0
S & D Kulaura	Juri	20	80	200
	33 KV consumer	68	-	-
	kulaura (new)	0	178	670
	Kulaura (old)	56	-	-
Jogonathpur E/S	Jogonathpur	45	125	270
Jaintapur E/S	Jaintapur	30	84	245
<b>Sub Total</b>		<b>631</b>	<b>1939</b>	<b>4512</b>
<b>Total</b>		<b>3654</b>	<b>10742</b>	<b>18592</b>



Contract signing ceremony between BPDB, DPDC and Shenzhen Star Instrument Company for installation of prepayment meter in Cumilla, Mymensingh and Dhaka.





## 33/11 KV Sub-stations of BPDB (As of June 2019)

Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
<b>Southern Zone, Chattogram</b>				
<b>O &amp; M Circle, Chatta-Metro (East)</b>				
1	S & D Patharghata	Patharghata	3x16/20	40
2	S & D Stadium	Stadium	3x16/20	38
3	S & D Sholoshahar	Sholoshar	1x16/20	38
			2x16	
4	S & D Kalurghat	Kalurghat	1x16/20	36
			1x16	
			Muradpur	
5	S & D Bakalia	Bakalia	2x16/20	36
6	S & D Madarbari	Madarbari	2x16/20	25
<b>O &amp; M Circle, Chatta-Metro (West)</b>				
7	S & D Agrabad	Agrabad	2x16/20	50
			1x20/26.66	
8	S & D Halisahar	Halisahar	2x16/20	24
		Patenga	2x16/20	14
9	S & D Khulshi	Khulshi	4x16/20	38
		Jalalabad	3x16/26.66	32
10	S & D Pahartali	Pahartali	2x16/20	41
			1x20/26.66	
11	S & D Newmooring	Newmooring	2x16/20	30
12	S & D Rampur	Rampur	3x16/20	38
<b>O &amp; M Circle, Chatta-Metro (North)</b>				
13	Dis. Div. Fouzderhat	Baroulia	2 x 16/20	27
	Sandeep electric supply	Fouzderhat	2 x 16/20	32
		Power House	1.25	4
14	S & D, Hathazari	Hathazari	1 x 16/20	12
			1 x 10/13.33	
			Fateybad	
15	S & D Barabkunda	Barabkunda	2 x 16/20	24.5
16	S & D Mohara	Mohara	2 x 16/20	23
		Rangunia Sub Station	1 x 5	3
<b>O &amp; M Circle, Chatta-Metro (South)</b>				
17	Dist. Divn. Patiya	Patiya	2x10/12 + 10/13.33	10
		Fishharbor	2x10	15
		Julda	2x16/20	8
		Shikalbaha	1x16/20 + 10/13.33	10
		Dohazari	1x16/20	9
18	Dist. Divn. Cox's Bazar	Satkania	2x5/6.67	8
		Zilongza	2x16/20	32
		Kolatoli	2x10/13.33	14
		Chakaria	1x10	8.5
		Aziznagar	1x6.67	3.5
		Lama	1x5	4
<b>O &amp; M Circle, Rangamati</b>				
19	Dist. Divn. Rangamati	Vedvedi 33/11 KV	2 x 5	7.5
		Majerbosti 33/11 KV	1 x 10/13.33	6
		Kawkhali 33/11 KV	1 x 5	1.5
		Ghagra 33/11 KV	1 x 5	2.5
		Kaptai Academy 33/11 KV	2 x 3	1.3
		Kaptai 132/33/11 KV	1 x 20	6.5
		Bangalhalia 33/11 KV	1 x 5	1.5
		Marishya 33/11 KV	1 x 5	1.5





Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
20	Dist. Divn. Khagrachari	Khagrachari 33/11 KV	2x5.00	10
		Panchari	1x5.00	2.75
		Ramgarh	3x1.667	2.75
		Jaliapara	3x1.667	2.5
		Dighinala	3x1.667 + 1x5.00	5
		Manikchari	1x5.00	2.5
21	Dist. Divn. Bandarban	Mohalchari	1x5.00	3
		Adjacent to Office	2x5/6.67	5.7
		Kasing Ghata	3X1.667	3.5
		Y-Junction	1x5/6.67	0.7
		Bolipara	3X1.667	0.6
<b>Sub Total</b>		<b>53</b>	<b>1219/1548</b>	<b>824</b>
<b>Cumilla Zone</b>				
<b>O &amp; M Circle, Cumilla</b>				
22	S & D-1, Cumilla	Kotbari	3x10/13.33 + 20/26	24
		Kaliajori	2x10/13.33 1x16/20	25
23	Burichang E/S	Palpara	2x5	4
24	S & D-2, Cumilla	Balutupa	3x10/13.33 + 1x16/20	22
25	Chouddagram E/S	Chouddagram	2x5 1x3	8
		Jangalia	2x10/13.33 2x16/20	24
27	S & D Daulatganj	Daulatganj	1x10/13.33 1x16/20 1x5	10
		Balur Math	2x10/13.33	16
		Puran Bazar	1x5 1x10/13.33	10
29	B.Baria E/S	Datiara	1x10/13.33 2x16/20	26
		Ghatura	3x10/13.33	20
30	S & D Ashuganj	Kalabagan	2x10/13.33 + 1x16/20	20
31	S & D Sarail	Shabazpur	2x5	6
		Kuttapara	2x10/13.33	8
<b>O &amp; M Circle, Noakhali</b>				
32	S & D Feni	Mohipal	4x10/13.33	24
		Sultanpur	2x10/13.33	12
33	Bosurhat E/S	Dagonbuyan	2x10/13.33	12
34	Maijdee E/S	Maijdee	2x10/13.33 + 1x16/20	20
		Datterhat	1x10/13.33	8
35	S & D Chowmuhani	Chowmuhani	3x10/13.33	20
36	S & D, Laxmipur	Laxmipur	2x10/13.33	11
<b>Sub Total</b>		<b>21</b>	<b>587/755</b>	<b>330</b>
<b>Central Zone, Mymensingh</b>				
<b>O &amp; M Circle, Mymensingh</b>				
37	S & D -1 (North)	Akua	2x10/13.33 + 1x20/26	23
		Batircal	2x10/13.33	18
38	S & D -Fulpur	Fulpur	2X10/13.33	17
		Haluaghat	2X5/6.67	7



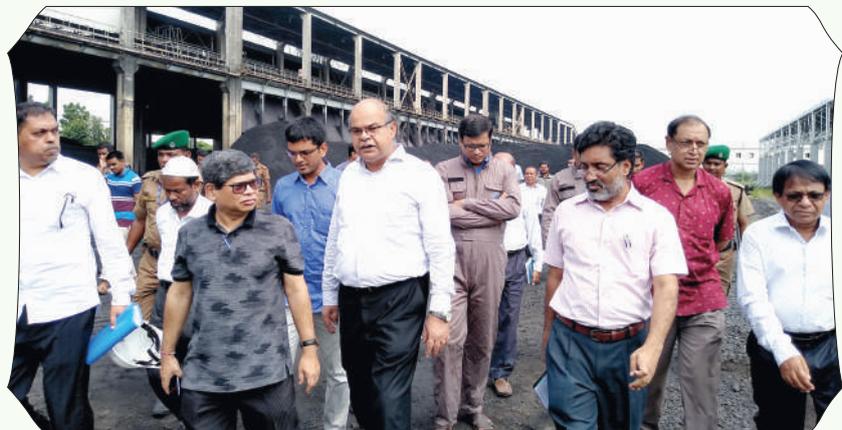
Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
39	S & D -3	Shambuganj	2X10/13.33	16
		Gauripur	2X10/13.33	8
		Isshorganj	2X5/6.67	7
40	S & D -2 (South)	Kewatkhali	4x10/13.33	28
		Akua Bypass	2x10/13.33	16
41	S & D Trisal	Trisal	2x10/13.33	15
42	S & D Bhaluka	Bhaluka	3x10/13.33	17
43	S & D Gofargaon	Majjbari	2x5/6.66	7
		Gofargaon	2x10/13.33	12
		Balipara	1x5/6.66	2
44	S&D Netrokona	Satpai Netrokona	3x10/13.33	20
45	S&D Bhairab	Bhairab	4x10/13.33	26
		Kuliachor	2x5/6.66	6
46	S&D Sherpur	Sherpur	1x16/20	25
			2x10/13.33	
		Nalitabari	2X5/6.67	7
		Nakla	2X5/6.67	5
		Jinaigati	2 X 5/6.67	6
Sribordi	2 X 5/6.67	6		
47	Dist. Divn. Kishoreganj	Josodal	3x10/13.33	12
		Mollapara	2x10/13.33	13
48	S&D Bajitpur	Sararchar	2x10/13.34	12
<b>O &amp; M Circle, Tangail</b>				
49	S & D-1 Tangail	Batka	3x10/13.33	18
		Boilla	2x10/13.33	7
50	S & D-2 Tangail	Kachuadanga	3x10/13.33	22
51	S & D-3 Tangail	Elenga	2x10/13.33	10
52	S & D Bhuapur	Bhuapur	3x10/13.33	18
53	S & D Ghatail	Ghatail	2x10/13.33+20/26	25
54	S & D Khalihati	Kalihati	3x10/13.33	17
55	S & D Shakipur	Shakipur	2x10/13.33	16
		Kutubput	2x5/6.66	8
		Nalua	2x5/6.66	8
56	S & D Jamalpur	Bojrapur	1x10/13.33	10
		Shapur	2x10/13.33	12
		Shekhervita	2x10/13.33	18
57	S & D Sharishabari	Sharishabari	2x10/13.33	10
<b>Sub Total</b>		<b>39</b>	<b>816/1084</b>	<b>530</b>
<b>Sylhet Zone</b>				
<b>O &amp; M Circle, Sylhet</b>				
58	S & D 1 Sylhet	Ambarkhana	2x10/13.33	30
			2x 20/26.66	
59	S & D 2 Sylhet	Shekhghat	2x10/13.33	15
		Upashahar	4x10/13.33	26
		MC Collage	2x10/13.33	10
		Botessor	2x10/13.33 + 1x 20/26	28
60	S & D 3	Boroikandi	3x10/13.33	23
		Gotatikor	2x10/13.33	
61	S & D 4	Grid 33 KV	2x10/13.33	18
		Shahjalal	2x10/13.33	
62	S & D Sunamganj	Sunamganj	2x10/13.33	10
63	S & D Chatak	Jawa Bazar	2x5	4
		Chattak	2x10/13.33	13
64	Derai E/S, Sunamganj	Derai	2x5	8



Sl. No.	Name of the Division	Name of the 33/11KV Sub-station	Capacity (MVA)	Maximum Demand (MW)
<b>O &amp; M Circle, Moulvibazar</b>				
65	Jogonnanthpur E/S	Jogonnanthpur	4x5	10
66	Jaintapur E/S	Jaintapur	2x5	8
67	Dist.Divn. Moulvibazar	Bajbari	2x10/13.33	9
		Shamostafa Road (Moulvibazar-2)	2x10/13.33	5
68	S & D Hobiganj	Hobiganj	3x10/13.33	15
69	S & D, Kulaura	Juri	2x5	6
		Kulaura	2x10/13.33	15
<b>Sub Total</b>		<b>20</b>	<b>460/591</b>	<b>253</b>
<b>Total</b>		<b>133</b>	<b>3082/3978</b>	<b>1937</b>



Adviser to the Hon'ble Prime Minister for Power, Energy & Mineral Resource Affairs Dr. Tawfiq-e-Elehi Chowdhury BB, Hon'ble State Minister for Power, Energy & Mineral Resources Mr. Nasrul Hamid MP and Sr. Secretary, Power Division Dr. Ahmad Kaikaus visiting BPDB Stall at an exhibition titled 'Innovation Showcasing-2019'.



Chairman BPDB Engr. Khaled Mahmood visiting Coal Yard of Barapukuria Coal Based Power Plant.



## Distribution Sub-stations of BPDB (As of June 2019)

Name of ESU / Division	Distribution Transformer									
	11/0.4 KV									
	1000 KVA (Nos.)	500 KVA (Nos.)	315 KVA (Nos.)	300 KVA (Nos.)	250 KVA (Nos.)	200 KVA (Nos.)	100 KVA (Nos.)	50 KVA (Nos.)	Others KVA (Nos.)	Total Capacity (MVA)
<b>Southern Zone, Chattogram</b>										
<b>O &amp; M Circle, Chatta-Metro (East)</b>										
S & D Patharghata	0	0	1	0	274	60	14	0	0	82.215
S & D Stadium	0	0	1	0	222	28	13	0	0	62.715
S & D Sholoshahar	0	0	0	0	276	67	31	0	0	85.5
S & D Kalurghat	0	0	0	0	259	26	16	0	0	71.55
S & D Bakalia	0	0	0	0	196	66	11	0	0	63.3
S & Madarbari	0	0	0	0	174	21	5	0	0	48.2
<b>O &amp; M Circle, Chatta-Metro (West)</b>										
S & D Agrabad	0	0	0	0	285	29	4	0	0	77.45
S & D Khulshi	0	0	0	0	197	42	18	0	0	59.45
S & D Halisahar	0	0	0	0	179	30	22	0	4	52.99
S & D Pahartali	0	0	0	0	276	56	20	0	0	82.2
S & D Rampur	0	0	0	0	180	24	12	0	0	51
S&D Newmooring	0	0	0	0	171	34	4	0	2	49.97
<b>O &amp; M Circle, Chatta-Metro (North)</b>										
DD- Fouzderhat	0	0	0	0	87	72	43	5	235	43.05
Sandeep Electric Supply	0	0	0	0	35	5	20	2	15	12
S & D, Barabkunda	0	0	0	0	138	65	33	1	110	51.95
S & D, Hathazari	0.2	0	0	1	126	65	58	0	0	50.8
S & D Mohara	0.2	0	0	0	141	18	18	0	56	41.41
<b>O &amp; M Circle, Chatta-Metro (South)</b>										
Dist. Divn. Patiya	0	0	0	0	240	120	40	0	30	88.3
Dist. Divn. Cox's Bazar	0	0	0	0	261	151	134	34	34	110.89
<b>O &amp; M Circle, Rangamati</b>										
Dist. Divn. Rangamati	1	1	2	0	40	51	220	50	65	47.48
Dist. Divn. Khagrachari	0	0	1	0	10	86	180	70	136	42.875
Dist. Divn. Bandarban	0	0	0	0	51	74	123	47	46	42.66
<b>Sub Total</b>	<b>1.4</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>3818</b>	<b>1190</b>	<b>1039</b>	<b>209</b>	<b>733</b>	<b>1318</b>
<b>Cumilla Zone</b>										
<b>O &amp; M Circle, Cumilla</b>										
S&D-1, Cumilla	0	0	0	0	72	110	148	0	2	54.82
Burichong E/S	0	0	0	0	13	22	41	0	0	11.75
S & D-2, Cumilla	0	0	0	0	58	142	62	0	0	49.1
Chauddagram E/S	0	0	0	0	17	35	32	0	0	14.45
S & D-3, Cumilla	0	0	0	0	33	88	102	0	0	36.05
S & D Daulatganj	0	0	0	0	23	56	58	0	0	22.75



Name of ESU / Division	Distribution Transformer									
	11/0.4 KV									
	1000 KVA (Nos.)	500 KVA (Nos.)	315 KVA (Nos.)	300 KVA (Nos.)	250 KVA (Nos.)	200 KVA (Nos.)	100 KVA (Nos.)	50 KVA (Nos.)	Others KVA (Nos.)	Total Capacity (MVA)
S & D, Chandpur	0	0	0	0	20	102	72	0	2	32.62
B-Baria	0	0	0	0	68	195	124	1	0	68.45
S & D Ashuganj	0	5	0	0	82	115	75	0	0	53.5
S & D Sarial	0	3	0	0	34	84	69	0	0	33.7
<b>O &amp; M Circle, Noakhali</b>										
S&D-Maizdi	0	0	0	0	48	109	82	1	2	42.07
S & D Chowmuhan	0	0	0	0	50	58	68	0	0	30.9
Hatiya E/S	0	0	0	0	2	4	4	0	0	1.7
S&D-Feni	0	0	0	0	55	124	110	0	0	49.55
Bashourhat E/S	0	0	0	0	18	38	32	1	0	15.35
S&D-Laxmipur	0	0	0	0	27	39	57	0	0	20.25
<b>Sub Total</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>620</b>	<b>1321</b>	<b>1136</b>	<b>3</b>	<b>6</b>	<b>537.01</b>
<b>Central Zone, Mymensingh</b>										
<b>O &amp; M Circle, Mymensingh</b>										
S&D-1 (N), PDB, Mymensingh	0	0	0	0	133	126	82	3	8	66.88
S&D-2(S), PDB, Mymensingh	0	0	0	2	143	140	103	5	2	74.92
S&D-3, PDB, Mymensingh	0	0	1	0	370	220	256	17	19	163.455
S&D, Trisal	0	0	0	0	58	167	140	0	0	61.9
S&D, Fulpur	0	0	0	2	109	142	128	3	0	69.2
S&D, Gofargaon	0	0	0	0	88	190	215	2	0	81.6
S&D, Netrokona	0	1	0	0	31	85	100	0	0	35.25
Dist. Div Kishorganj	0	0	0	2	65	98	115	3	0	48.1
S&D, Bajitpur	0	0	0	0	43	93	96	2	4	39.09
S&D, Bhairab	0	0	0	0	94	154	245	1	0	78.85
S&D, Sherpur	0	0	0	0	176	189	262	0	0	108
S&D, Valuka	0	0	0	0	60	84	104	12	11	42.91
<b>O &amp; M Circle, Tangail</b>										
S & D, Jamalpur	0	0	0	4	93	129	96	2	6	60.01
S&D Sharishabari	0	0	0	0	62	35	36	0	5	26.15
S & D Ghatail	0	0	0	0	97	105	109	2	0	56.25
S & D Shakhipur	0	0	0	0	136	246	263	0	50	110
S & D Bhupur	0	1	0	0	56	108	95	2	10	45.8
S & D Khalihati	0	0	0	0	63	147	219	0	3	67.08
S & D-1 Tangail	0	1	0	0	61	74	85	1	7	39.17
S & D-2 Tangail	0	0	0	0	65	105	125	0	0	49.75
S & D-3 Tangail	0	0	0	0	46	65	68	4	2	31.52
<b>Sub-Total</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>10</b>	<b>2049</b>	<b>2702</b>	<b>2942</b>	<b>68</b>	<b>127</b>	<b>1355.885</b>





Name of ESU / Division	Distribution Transformer									
	11/0.4 KV									
	1000 KVA (Nos.)	500 KVA (Nos.)	315 KVA (Nos.)	300 KVA (Nos.)	250 KVA (Nos.)	200 KVA (Nos.)	100 KVA (Nos.)	50 KVA (Nos.)	Others KVA (Nos.)	Total Capacity (MVA)
<b>Sylhet Zone</b>										
<b>O &amp; M Circle, Sylhet</b>										
S & D 1	0	0	0	0	220	232	125	1	0	113.95
S & D 2	0	0	0	0	315	312	196	0	7	160.82
S & D 3	0	0	0	0	124	98	81	3	10	58.95
S & D 4	0	0	0	0	89	79	71	2	3	45.28
S & D Chatak	0	0	0	0	141	163	47	3	5	72.75
S & D Sunamganj	0	0	0	1	102	48	75	0	0	42.9
Derai E/S	0	0	0	0	13	58	66	3	42	22.02
<b>O &amp; M Circle, Moulovibazar</b>										
Dist. Divi. Moulovibazar	0	0	0	0	113	43	42	0	0	41.05
S & D Hobiganj	0	0	0	0	130	45	35	0	0	45
S & D Kulaura	0	0	0	0	52	75	85	2	12	36.72
Jogonathpur E/S	0	0	0	0	58	76	106	6	76	41.36
Jaintapur E/S	0	2	0	0	75	130	110	5	21	57.21
<b>Sub Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1432</b>	<b>1359</b>	<b>1039</b>	<b>25</b>	<b>176</b>	<b>738.01</b>
<b>Total</b>		<b>14</b>	<b>6</b>	<b>12</b>	<b>7919</b>	<b>6572</b>	<b>6156</b>	<b>296</b>	<b>1042</b>	<b>3948.86</b>

## DISTRIBUTION SUMMARY

(As of June 2019)

Sl. No.	Particulars	South Zone (Chattogram)	South Zone (Cumilla)	Central Zone (Mymensingh)	Central Zone (Sylhet)	Total
1.	33/11 kV Sub-station Capacity (MVA)	1219/1548	587/755	816/1084	460/591	<b>3082/3978</b>
2.	Distribution Lines (k.m)	10,572	4,183	11,151	7,082	<b>32,988</b>
3.	Total no. of Consumers	9,90,199	5,57,110	8,61,852	3,67,975	<b>27,77,136</b>
4.	Distribution System Loss (%)	8.14	10.10	9.75	10.63	<b>9.12</b>



## SYNOPSIS OF CHATTOGRAM P.C. POLE MANUFACTURING PLANT

Details	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
1. Nos. of poles manufactured																						
i) 33 kV poles a) 15 x 220	311	981	1,596	842	1,146	1,040	438	1,160	1,071	738	860	1,152	515	959	1,000	1,078	896	1,724	842	4,208	5,299	4,168
b) 15 x 190	524	163	298	716	676	723	564	1,256	1,901	600	582	499	1,322	1,929	1,115	1,110	1,390	3,430	1,880	2,430	2,095	447
ii) 11 kV poles 12 x 190	1,581	3,334	4,397	5,471	5,913	9,697	10,185	7,055	6,680	7,884	7,678	3,075	9,698	7,379	10,000	7,784	6,387	6,565	6,831	9,261	10,735	9,401
iii) 0.4 kV poles 9 x 140	5,222	3,548	3,723	6,793	6,639	12,654	9,430	7,825	9,474	7,808	7,285	2,153	4,603	4,743	1,889	5,075	7,384	7,790	4,249	4,663	7,616	6,986
2. Cost per no. of pole (Tk.)																						
i) 33 kV poles a) 15 x 220	20,000	20,000	20,000	16,821	16,821	16,821	20,185	23,180	23,180	23,180	31,650	35,740	35,740	35,740	35,740	35,740	40,897	40,897	53,381	53,381	53,381	53,381
b) 15 x 190	17,000	17,000	17,000	15,150	15,150	15,150	18,180	20,908	20,908	20,908	27,833	32,353	32,353	32,353	32,353	32,353	36,374	36,374	47,478	47,478	47,478	47,478
ii) 11 kV poles 12 x 190	14,400	14,400	14,400	11,005	11,005	11,005	13,206	15,119	15,119	15,119	18,891	20,383	20,383	20,383	20,383	20,383	23,295	23,295	30,406	30,406	30,406	30,406
iii) 0.4 kV poles 9 x 140	7,000	7,000	7,000	5,885	5,885	5,885	7,062	7,902	7,902	7,902	8,310	8,629	8,629	8,629	8,629	8,629	9,885	9,885	12,903	12,903	12,903	12,903
3. Production Capacity (Nos.)																						
i) 33 kV poles a) 15 x 220	800	1,000	600	800	1,500	1,000	460	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000	2,000	3,000	2,000	3,000	4,000
b) 15 x 190	1,000	500	500	700	800	600	600	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,500	1,500	1,500	3,000	3,000	1,000	1,000	1,000
ii) 11 kV poles 12 x 190	4,000	4,000	5,000	4,000	8,400	8,400	10,725	7,500	7,500	7,500	7,500	7,500	7,500	7,500	10,000	10,000	10,000	10,000	10,000	12,000	10,000	9,000
iii) 0.4 kV poles 9 x 140	5,300	4,000	4,000	4,500	9,300	10,000	9,900	8,500	8,500	8,500	8,500	8,500	8,500	8,500	7,500	7,500	7,500	5,000	4,000	5,000	6,000	6,000
4. Use of production capacity (%)	68.81	84.48	99.15	138.22	71.87	120.57	95.07	86.84	95.63	85.45	82.03	34.39	80.69	75.05	70.02	75.23	80.28	97.54	69.01	102.81	128.72	105.01

5. Specification of poles	Top Dia (mm)	Bottom Dia (mm)	Length (mm)	Wall Thickness (mm)	Av. Weight (Kg)	Design Load (Kg)	Pole Designation
i) 33 kV poles a) 15 x 220	220	420	15,000	55	2180	650	15 x 220x650
b) 15 x 190	190	390	15,000	50	1840	550	15 x 190x550
ii) 11 kV poles 12 x 190	190	350	12,000	50	1220	450	12 x 190x450
iii) 0.4 kV poles 9 x 140	140	260	9,000	40	500	250	9 x 140x250

## SYNOPSIS OF ARICHA P.C. POLE MANUFACTURING PLANT

Details	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
1. Nos. of poles manufactured																						
i) 33 kV poles 22.5x230	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15x230	61	---	17	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ii) 11 kV poles 12x230	751	240	720	1,450	3,449	4,007	3,508	2,722	1,338	2,238	1,583	929	1,429	1,630	1,381	791	1,425	2,728	3,245	701	14,868	15,814
11x230	4,300	3,416	3,674	5,090	6,884	5,162	5,170	6,673	3,790	3,852	729	836	1,198	1,037	1,361	625	1,545	2,551	828	4,643	1,225	403
iii) 0.4 kV poles 9 M	4,022	3,371	4,640	6,501	12,046	14,859	12,342	10,610	8,009	9,912	4,691	3,286	3,219	4,261	6,268	3,141	5,170	7,729	7,929	10,509	10,587	12,010
2. Cost per no. of pole (Tk.)																						
i) 33 kV poles 22.5 M	---	---	---	39,014	39,014	39,014	39,014	45,589	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15 M	15,880	16,516	20,550	21,246	21,246	21,246	24,816	24,816	28,119	41,669	36,713	---	---	---	---	---	---	---	---	---	---	---
ii) 11 kV poles 12 M	10,642	10,868	13,802	14,197	14,197	14,197	15,783	15,783	17,328	24,486	21,574	21,574	21,574	21,574	21,574	22,512	22,512	29,384	29,384	29,384	29,384	29,384
11 M	9,400	9,634	12,385	12,652	12,652	12,652	13,910	13,910	15,313	21,066	18,560	18,560	18,560	18,560	18,560	19,579	19,579	25,555	25,555	25,555	25,555	25,555
iii) 0.4 kV poles 9 M	4,501	4,669	6,072	6,262	6,262	6,262	6,694	6,694	7,074	9,558	8,421	8,421	8,421	8,421	8,421	9,065	9,065	11,832	11,832	11,832	11,832	11,832
3. Production Capacity (Nos.)																						
i) 33 kV poles 22.5 M	---	---	---	25	25	25	25	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15 M	300	100	300	300	340	200	200	200	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ii) 11 kV poles 12 M	1,500	1,500	900	900	2,000	3,000	3,000	3,000	4,000	4,000	4,000	4,000	3,000	3,000	3,000	3,000	3,000	3,000	2,500	4,500	10,000	12,000
11 M	4,000	4,000	4,000	4,000	8,000	5,000	5,000	5,775	5,000	5,000	5,000	5,000	2,000	2,000	2,000	2,000	2,000	2,000	2,500	500	2,500	500
iii) 0.4 kV poles 9 M	4,200	4,400	4,800	4,800	9,660	11,000	11,000	11,000	11,000	11,000	11,000	11,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	10,000	7,500	7,500
4. Use of production capacity (%)	91.34	70.27	90.51	130.80	111.90	120.14	105.10	100.03	65.68	80.01	35.01	25.26	58.46	69.28	90.10	70.6	81.4	130.08	120.02	105.68	133.4	141.135

5. Specification of poles	Top Dia (mm)	Bottom Dia (mm)	Wall Thickness (mm)	Pole Weight (Kg)	Design Load (Kg)	Pole Designation
i) 33 kV poles 22.5 M	230	530	55	3092.86	587	---
15 M	230	430	55	1,719.78	500	15 x 230x500
ii) 11 kV poles 12 M	230	390	55	1,249.44	512	12 x 230x512
11 M	230	375	55	1,110.46	512	11 x 230x512
iii) 0.4 kV poles 9 M	150	270	50	522.50	233	9 x 150x232



Hon'ble Prime Minister Sheikh Hasina inaugurating and laying foundation stone of several development projects of the country through video conference from Ganabhaban



BPDB has been nominated for its contribution in reconstruction of power sector and as a single buyer. Mr. Khaled Mahmood, Chairman BPDB receiving the memento from Hon'ble Prime Minister Sheikh Hasina for this achievement on the opening ceremony of Power & Energy Week-2018.



# Chapter 5

## *Accounts, Finance and Audit*



## ACCOUNTS, FINANCE AND AUDIT

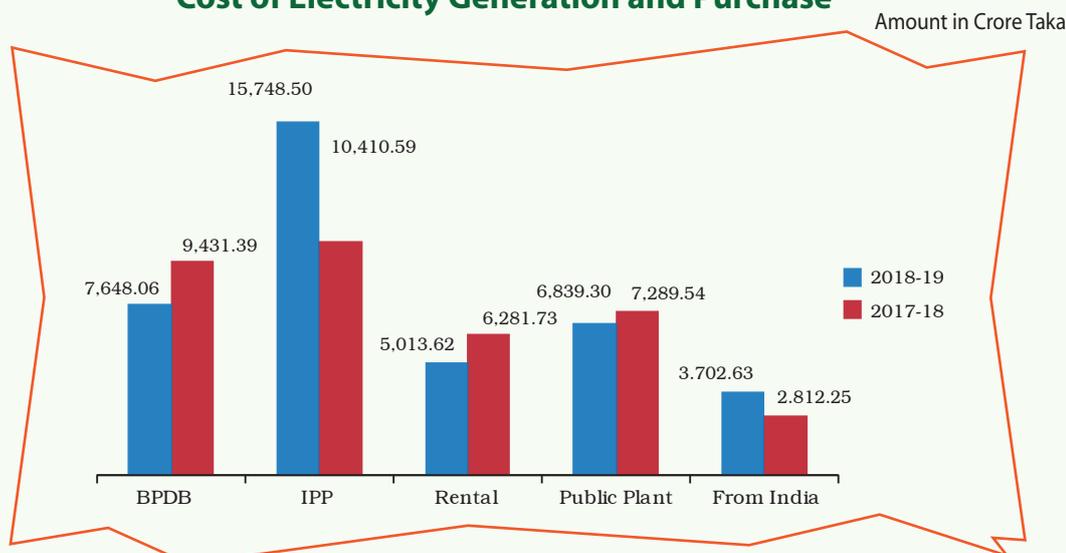
Electricity (Power) plays a vital role in the economy of a developing country in many aspects. Day to day the demand of the electricity is growing up. To meet the growing demand of the electricity, BPDB has given high priority in the electricity generation. Beside own generation, BPDB also purchase electricity from the Private Companies generally termed as IPP (Independent Power Producer), Rental power plant and Public power plant to meet the growing demand. BPDB also import electricity from India. In the FY 2018-2019, Generation cost of BPDB's own plant and Electricity purchase from other sources are shown in 'Table-A' with compare to the preceding year.

**Table-A**

Particulars	FY 2018-19		FY 2017-18		Increase/ (Decrease)
	Amount (Crore Tk.)	Cost (Tk/kWh)	Amount (Crore Tk.)	Cost (Tk/kWh)	
i. BPDB's Generation	7,648.06	4.58	9,431.39	6.44	(18.91)%
ii. Purchase from IPP	15,748.50	7.42	10,410.59	5.72	51.27%
iii. Purchase from Rental	5,013.62	8.40	6,281.73	8.77	(20.19)%
iv. Purchase from Public Plant	6,839.30	3.82	7,289.54	4.52	(6.18)%
v. Purchase from India	3,702.63	5.46	2,812.58	5.87	31.65%
vi. Interest on budgetary support	1,294.80	0.19	1,188.31	0.20	8.96%
vii. Provision for Maintenance and Development fund	998.20	0.15	1,162.67	0.19	(14.15)%
<b>Total</b>	<b>41,245.12</b>	<b>6.01</b>	<b>38,576.81</b>	<b>6.33</b>	<b>(6.92)%</b>
<b>Energy Sales</b>	<b>33,064.03</b>		<b>29,741.16</b>		<b>11.17%</b>

It shows that Energy purchase from IPP, India & Interest on budgetary support have increased by 51.27%, 31.65% & 8.96% respectively and BPDB's own generation cost, purchase from Rental, Public Plants & Provision for Maintenance and Development fund decreased by 18.91%, 20.19%, 6.18% & 14.15% respectively compared to FY 2017-2018. Chart-1 shows the comparative generation picture

### Cost of Electricity Generation and Purchase



**Chart-1**



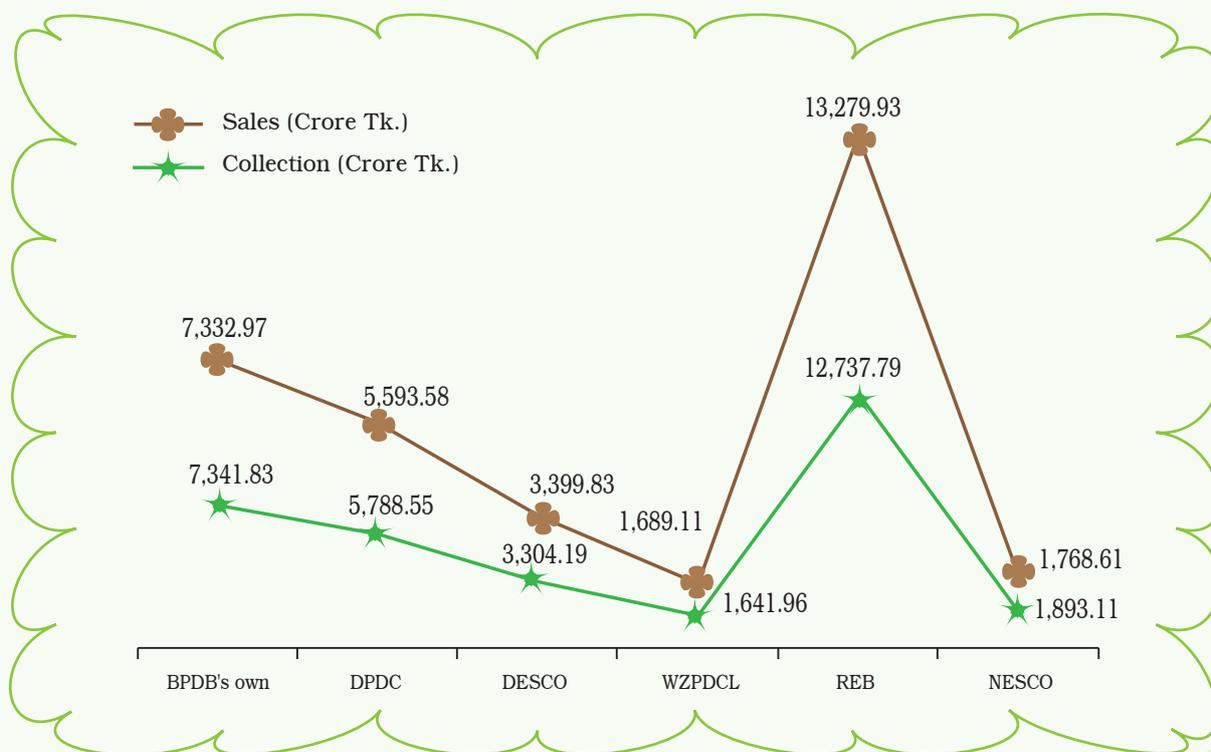
During the financial year 2018-2019 amount of sales to BPDB's own consumers, DPDC, DESCO, WZPDCL, NESCO & REB and the collected amount against sales are given below:

**Table-B**

Particulars Sales	FY-2018-2019			FY-2017-2018	Increase / (Decrease)
	Sales (Crore Tk.)	Collection (Crore Tk.)	(% of collection on sales)	(% of collection on sales)	
BPDB's own consumer	7,332.97	7,341.83	100.12%	98.41%	1.71%
DPDC	5,593.58	5,788.55	103.49%	100.31%	3.18%
DESCO	3,399.83	3,304.19	97.19%	99.52%	(2.33)%
WZPDCL	1,689.11	1,641.96	97.21%	98.38%	(1.17)%
REB	13,279.93	12,737.79	95.92%	98.10%	(2.18)%
NESCO	1,768.61	1,893.11	107.04%	94.20%	12.84%
<b>Total</b>	<b>33,064.03</b>	<b>32,707.43</b>	<b>98.92%</b>	<b>98.49%</b>	<b>0.43%</b>

During the financial year 2018-2019 sales to BPDB's own consumer, DPDC, DESCO, WZPDCL, REB and NESCO Taka 7,332.97 Crore, 5,593.58 Crore, 3,399.83 Crore, 1,689.11 Crore, 13,279.93 Crore and 1,768.61 Crore respectively against which amount collected was 7,341.83 Crore, 5,788.55 Crore, 3,304.19 Crore, 1,641.96 Crore, 12,737.79 Crore and 1,893.11 Crore which is 100.12%, 103.49%, 97.19%, 97.21%, 95.92% and 107.04% of billed amount respectively.

### Comparative collection over sales



**Chart-2**



A comparison of the Operating income and operating expenses for FY 2018-2019 and FY 2017-2018 is shown below:

**Table-C**

Amount in Crore Taka

Head of Accounts	FY 2018-2019	FY 2017-2018	Amount increase/ (Decrease)	Percentage of increase/(Decrease)
<b>Operating Revenue (1)</b>	<b>34,506.87</b>	<b>30,604.41</b>	<b>3,902.46</b>	<b>12.75%</b>
Sale of Electricity	33,064.03	29,741.16	3,322.87	11.17%
Other Operating Revenue	1,442.84	863.26	579.59	67.14%
<b>Operating Expenses (2)</b>	<b>39,553.30</b>	<b>36,811.89</b>	<b>2,741.41</b>	<b>7.45%</b>
Fuel Cost	4,249.35	6,122.00	(1,872.64)	(30.59)%
Generation Expenses (Excluding fuel cost)	2,442.39	2,406.33	36.06	1.50%
Electricity purchase from IPP	15,748.50	10,410.59	5,337.91	51.27%
Electricity purchase from RENTAL	5,013.62	6,281.73	(1,268.10)	(20.19)%
Electricity purchase from Public Plant	6,839.30	7,289.54	(450.24)	(6.18)%
Electricity purchase from India	3,702.63	2,812.58	890.05	31.65%
Wheeling Charge to PGCB	215.02	182.92	32.10	17.55%
Distribution Expenses	947.51	923.53	23.98	2.60%
General & Administrative Expenses	394.97	382.68	12.30	3.21%
<b>Operating Profit/(Loss) = (1-2)</b>	<b>(5,046.43)</b>	<b>(6,207.47)</b>	<b>1,161.05</b>	<b>(18.70)%</b>

Table-c shows that sale of electricity has increased by 12.75% and Other Operating Revenue has increased by 11.17% respectively over FY 2017-2018. The cost of fuel for generation has decreased by 30.59% and other generation expense has increased by 1.50% over FY 2017-2018. The total operating expenses has increased by 7.45%. Wheeling Charge to PGCB and Distribution Expenses has increased by 17.55%. Operating Loss for the year 2018-2019 has decreased by 18.70%.

**COMPARATIVE STATEMENT OF BUDGET AND ACHIEVEMENT  
FOR THE YEAR 2018-2019**

Amount in Lac Taka

Particulars	Budget	Achievement	Performance Over Budget	Favorable (F)/ Adverse (A)
<b>REVENUE</b>				
ENERGY SALES	3,271,461	3,306,403	34,942	F
OTHER OPERATING INCOME	77,605	144,284	66,679	F
<b>TOTAL OPERATING REVENUE</b>	<b>3,349,066</b>	<b>3,450,687</b>	<b>101,621</b>	<b>F</b>
<b>OPERATING EXPENSES</b>				
FUEL COST - GAS	123,092	122,684	408	F
DIESEL/FURNACE OIL USED FOR ELECTRICITY GENERATION	241,087	237,993	3,094	F
COAL USED FOR ELECTRICITY GENERATION	45,531	64,258	(18,727)	A
ELECTRICITY PURCHASE FROM IPP	1,506,886	1,574,850	(67,964)	A
ELECTRICITY PURCHASE FROM RENTAL	521,211	501,362	19,849	F
ELECTRICITY PURCHASE FROM INDIA	417,424	370,263	47,161	F
ELECTRICITY PURCHASE FROM PUBLIC PLANT	731,423	683,930	47,493	F
DEPRECIATION	171,870	182,683	(10,813)	A
REPAIR & MAINTENANCE EXPENSES	87,550	61,130	46,420	F
PERSONNEL EXPENSES	134,608	121,953	12,655	F
Office & ADMINISTRATIVE EXPENSES	40,316	12,720	27,596	F
TRANSMISSION EXPENSES FOR WHEELING CHARGE	28,522	21,502	7,020	F
<b>TOTAL OPERATING EXPENSES</b>	<b>4,049,520</b>	<b>3,955,330</b>	<b>94,190</b>	<b>F</b>
<b>OPERATING INCOME / (LOSS)</b>	<b>(700,454)</b>	<b>(504,642)</b>	<b>195,812</b>	<b>F</b>
<b>NON - OPERATING EXPENSES</b>				
ASSETS INSURANCE FUND	150	150	-	
INTEREST ON LOANS	209,380	199,964	9,416	F
PROVISION FOR MAINTANANCE & DEVELOPMENT FUND	98,932	99,820	888	F
(GAIN) / LOSS DUE TO EXCHANGE RATE FLUCTUATION	20,000	9,558	10,442	F
<b>NET NON-OPERATING EXPENSES</b>	<b>328,462</b>	<b>309,492</b>	<b>18,970</b>	<b>F</b>
<b>SUBSIDY FROM GOVT.</b>	<b>899,435</b>	<b>796,673</b>	<b>(102,762)</b>	<b>A</b>
<b>COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR</b>	<b>(129,481)</b>	<b>(17,461)</b>	<b>112,020</b>	<b>F</b>



From the shown statement it is found that, the actual net loss for the FY 2018-2019 is Taka 17,461 lac against the revised budgeted net Loss of Taka 129,481 lac. This is less than budget provision by Taka 112,020 lac. In analysis of the revised budget and actual expenditure it is observed that the govt. orders/decisions for controlling the cost have been reflected in BPDB's operation.

Utility Plant in Service acquired through project completion amounting to Taka 5,103.59 Crore has been transferred to assets in operation during the FY 2018-2019. Depreciation has been charged @ 3.20% on the opening balance of utility plant in service except those of 820mw. plant and transportation equipment on which depreciation has been charged @ 6.00% and 9.00% respectively on the basis of "Fixed Percentage" method & half of the normal rate on addition during the year.

Chart-3 shows the trend analysis of revenue from sale of electricity with operating expense:

### Year Wise Revenue To Operating Expenses

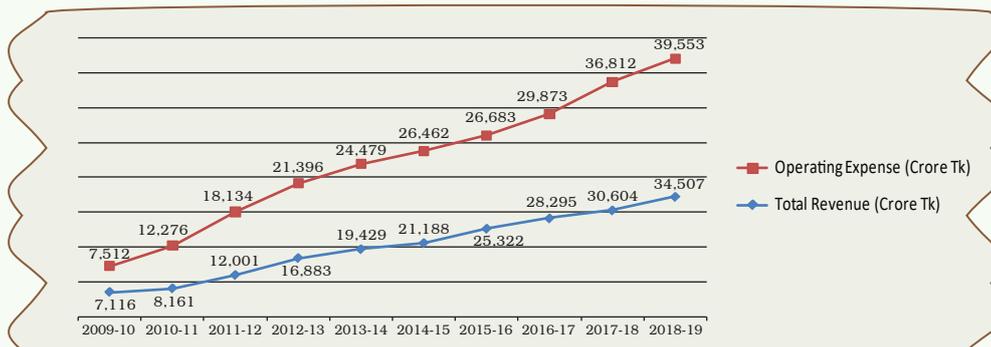


Chart-3

### Category Wise Total Expenses

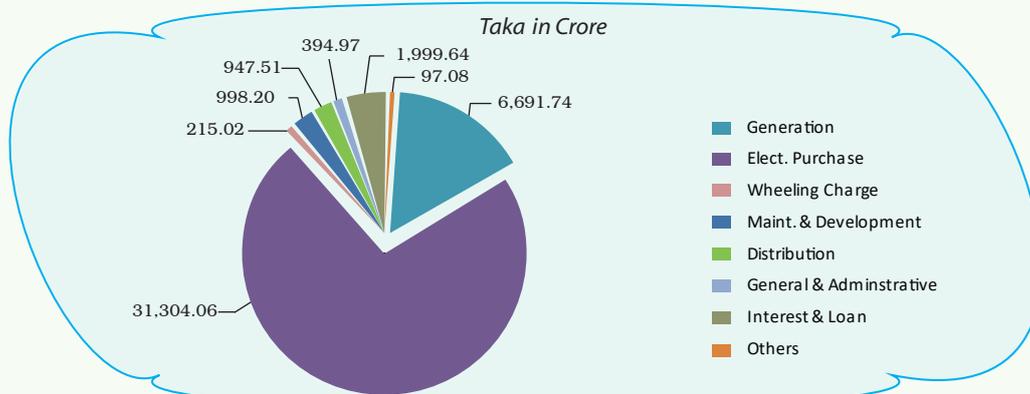


Chart-4

### BPDB's Own Generation and Electricity Purchase

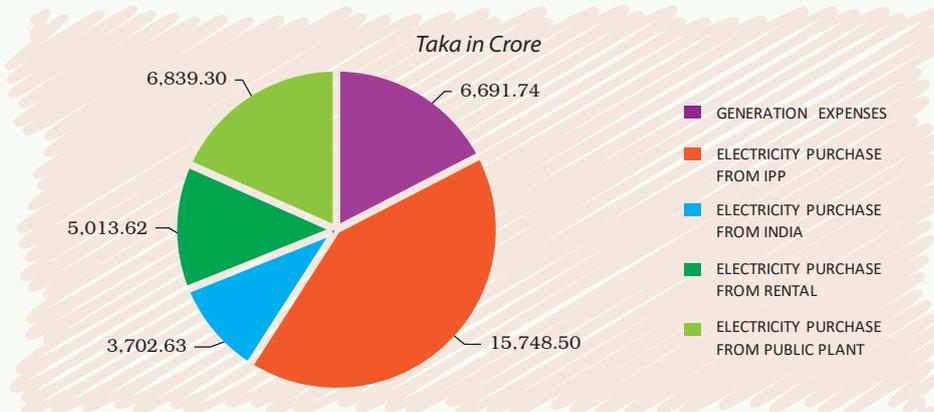


Chart-5



## STATEMENT OF FINANCIAL POSITION

AS AT JUNE 30, 2019

Figures In Taka

PROPERTY AND ASSETS	AS AT 30-06-2019	AS AT 30-06-2018
<b>NON-CURRENT ASSETS</b>		
UTILITY PLANT IN SERVICE	617,954,488,788	556,382,840,177
LESS : ACCUMULATED DEPRECIATION	258,735,481,865	240,467,155,974
<b>WRITTEN DOWN VALUE</b>	<b>359,219,006,923</b>	<b>315,915,684,203</b>
PROJECT IN PROGRESS	148,107,093,830	145,761,096,963
INVESTMENT IN SHARES	24,716,266,948	23,369,009,228
<b>TOTAL NON-CURRENT ASSETS</b>	<b>532,042,367,701</b>	<b>485,045,790,394</b>
<b>CURRENT ASSETS</b>		
INVESTMENT	71,419,588,442	71,579,904,324
CASH IN HAND AND AT BANK	50,372,776,610	48,816,713,898
ACCOUNTS RECEIVABLE - TRADE	111,587,342,806	108,021,304,638
ACCOUNTS RECEIVABLE - OTHERS	30,687,415,869	31,848,834,597
PROVISION FOR BAD AND DOUBTFUL DEBTS	(1,236,107,585)	(1,236,107,585)
ADVANCE TO CONTRACTORS AND SUPPLIERS	4,768,612,331	8,761,845,767
ADVANCE TO EMPLOYEES	1,996,476,837	1,824,712,776
STOCK AND STORES	17,012,109,189	14,145,785,082
SECURITY DEPOSIT TO OTHER UTILITIES	762,995,931	694,664,749
INCOME TAX DEDUCTION AT SOURCE	5,238,240,476	4,446,719,420
<b>TOTAL CURRENT ASSETS</b>	<b>292,609,450,906</b>	<b>288,904,377,665</b>
<b>TOTAL PROPERTY AND ASSETS</b>	<b>824,651,818,606</b>	<b>773,950,168,058</b>

**A B SAHA & CO.**  
Chartered Accountants

**MARHK & CO.**  
Chartered Accountants



## STATEMENT OF FINANCIAL POSITION

AS AT JUNE 30, 2019

Figures In Taka

EQUITY AND LIABILITIES	AS AT 30-06-2019	AS AT 30-06-2018
<b>AUTHORIZED CAPITAL</b>	<b>200,000,000,000</b>	<b>200,000,000,000</b>
<b>EQUITY &amp; RESERVE</b>		
PAID UP CAPITAL	199,789,679,430	187,959,725,430
GOVERNMENT EQUITY	2,574,060,000	-
RETAINED EARNINGS	(579,637,444,825)	(575,427,924,045)
APPRAISAL SURPLUS	117,057,871,482	117,057,871,482
GOVT. EQUITY AGAINST DESCO'S SHARE	3,328,924,865	3,328,924,865
GRANTS	7,436,755,860	6,436,005,860
DEPOSIT WORK FUND	5,061,162,856	3,454,332,614
LIQUIDITY DAMAGE RESERVE	72,053,500	72,053,500
ASSETS INSURANCE FUND	390,000,000	375,000,000
MAINTANANCE & DEVELOPMENT FUND	86,064,523,213	74,391,348,621
	<b>(157,862,413,619)</b>	<b>(182,352,661,673)</b>
<b>NON-CURRENT LIABILITIES</b>		
BUDGETARY SUPPORT FROM GOVT.	431,601,200,000	431,601,200,000
GOVERNMENT LOAN	82,112,266,176	75,803,680,486
FOREIGN LOAN	142,125,673,652	139,449,044,608
SECURITY DEPOSIT (CONSUMERS)	5,906,988,628	5,613,496,867
GPF & CPF	9,064,052,949	8,042,771,507
GRATUITY & PENSION FUND	14,470,962,283	13,687,530,169
	<b>685,281,143,688</b>	<b>674,197,723,638</b>
<b>CURRENT LIABILITIES</b>		
ACCOUNTS PAYABLE	71,621,278,530	71,956,665,754
SECURITY DEPOSIT (CONTRACTORS & SUPPLIERS)	1,648,910,599	1,620,077,853
CURRENT PORTION OF LONG TERM LIABILITIES	11,419,917,696	8,123,317,140
DEBT SERVICING LIABILITIES ( PRINCIPAL)	80,697,163,103	75,457,060,879
REIMBURSABLE PROJECT AID	1,024,287,460	1,024,287,460
DEBT SERVICING LIABILITIES (INTEREST)	66,854,026,942	63,219,143,977
INTEREST ON BUDGETARY SUPPORT FROM GOVT.	69,649,057,760	56,701,021,760
OTHER LIABILITIES	2,114,352,021	1,845,312,248
	<b>305,028,994,111</b>	<b>279,946,887,071</b>
CLEARING ACCOUNTS	(7,795,905,573)	2,158,219,023
<b>TOTAL EQUITY AND LIABILITIES</b>	<b>824,651,818,606</b>	<b>773,950,168,058</b>

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Chartered Accountants

**MARHK & CO.**  
Chartered Accountants



**STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME**  
**FOR THE YEAR ENDED JUNE 30, 2019**

Figures In Taka

PARTICULARS	FY 2018-19	FY 2017-18
<b>OPERATING REVENUE</b>		
ENERGY SALES	330,640,293,772	297,411,590,243
OTHER OPERATING INCOME	14,428,432,752	8,632,555,209
	<b>345,068,726,523</b>	<b>306,044,145,452</b>
<b>OPERATING EXPENSES</b>		
GENERATION EXPENSES	66,917,410,817	85,283,226,671
ELECTRICITY PURCHASE FROM IPP	157,485,024,369	104,105,913,212
ELECTRICITY PURCHASE FROM INDIA	37,026,349,447	28,125,816,144
ELECTRICITY PURCHASE FROM RENTAL	50,136,234,417	62,817,273,381
ELECTRICITY PURCHASE FROM PUBLIC PLANT	68,392,984,316	72,895,422,864
TRANSMISSION EXPENSES FOR WHEELING CHARGE	2,150,187,186	1,829,178,719
DISTRIBUTION EXPENSES	9,475,065,565	9,235,311,496
GENERAL AND ADMINISTRATIVE EXPENSES	3,949,749,896	3,826,752,388
<b>TOTAL OPERATING EXPENSES</b>	<b>395,533,006,013</b>	<b>368,118,894,875</b>
<b>OPERATING INCOME / (LOSS)</b>	<b>(50,464,279,490)</b>	<b>(62,074,749,423)</b>
FINANCING AND OTHER CHARGES	7,048,333,238	5,057,497,885
INTEREST ON BUDGETARY SUPPORT FROM GOVT.	12,948,036,000	11,883,129,000
<b>INCOME/(LOSS)</b>	<b>(70,460,648,728)</b>	<b>(79,015,376,307)</b>
LOSS/(GAIN) DUE TO EXCHANGE RATE FLUCTUATION	955,806,673	2,444,478,187
ASSETS INSURANCE FUND	15,000,000	15,000,000
PROVISION FOR MAINTANANCE AND DEVELOPMENT FUND	9,981,987,450	11,626,667,036
SUBSIDY FROM GOVT.	(79,667,300,000)	(9,562,000,000)
<b>COMPREHENSIVE INCOME / (LOSS)</b>	<b>(1,746,142,851)</b>	<b>(83,539,521,530)</b>
<b>RETAINED EARNINGS</b>		
BALANCE AS AT JULY 01, 2018	(575,427,924,045)	(491,944,861,046)
PREVIOUS YEAR'S ADJUSTMENT	(2,463,377,930)	56,458,532
COMPREHENSIVE INCOME / (LOSS)	(1,746,142,851)	(83,539,521,530)
<b>BALANCE AS AT JUNE 30, 2019</b>	<b>(579,637,444,825)</b>	<b>(575,427,924,045)</b>

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## STATEMENT OF CASH FLOWS FOR THE YEAR ENDED JUNE 30, 2019

Figures In Taka

SL. No.	DESCRIPTION	AMOUNT	AMOUNT	AMOUNT
	<b>CASH FLOW FROM OPERATING ACTIVITIES</b>			
<b>A</b>	<b>Total Receipts from BPDB Customer, REB and Others</b>			
	Operating Revenue-Note-40 & 41	<b>345,068,726,523</b>		
	Accounts Receivable-Trade-Opening-Note-9	108,021,304,638		
	Accounts Receivable-Trade-Closing-Note-9	(111,587,342,806)		
	Accounts Receivable-Others -Opening-Note-10 ( Except 142A, 142B & 142C)	1,753,964,961		
	Accounts Receivable-Others -Closing-Note-10 ( Except 142A, 142B & 142C)	(1,753,964,961)		
	Provision for Bad Debt-Opening-Note-12	(1,236,107,585)		
	Provision for Bad Debt-Closing-Note-12	1,236,107,585		
			<b>341,502,688,355</b>	
<b>B</b>	<b>Less Total Payment for Operating Expenses and Others</b>			
	Operating Expenses net of Depreciation*01	376,136,177,291		
	Previous Year's Adjustments-Note-54	2,463,377,930		
	Interest Charges- Sh-52 (Code-675 & Interest of Foreign Loan paid in cash )	4,557,215,182		
	Liquidity Reserve-Opening- Note-22	72,053,500		
	Liquidity Reserve-Closing - Note-22	(72,053,500)		
	Accounts Payable-Opening -Note-30	71,956,665,754		
	Accounts Payable-Closing- Note-30	(71,621,278,530)		
	Security Deposit Contractor's-Opening -Note-31	1,620,077,853		
	Security Deposit Contractor's-Closing- Note-31	(1,648,910,599)		
	Other Liabilities-Opening-Note-38	1,845,312,248		
	Other Liabilities-Closing-Note-38	(2,114,352,021)		
	Advance to Contractors-Opening - Note-13	(8,761,845,767)		
	Advance to Contractors-Closing - Note-13	4,768,612,331		
	Advance to Employees-Opening- Note-14	(1,824,712,776)		
	Advance to Employees-Closing- Note-14	1,996,476,837		
	Stock & Stores-Opening- Note-15	(14,145,785,082)		
	Stock & Stores-Closing- Note-15	17,012,109,189		
	Clearing Account-Opening- Note-39	2,158,219,023		
	Clearing Account-Closing- Note-39	7,795,905,573		
	Deposits & Prepaid-Opening- Note-16	(5,141,384,168)		
	Deposits & Prepaid-Closing -Note-16	6,001,236,407		
			<b>393,053,116,674</b>	
<b>C</b>	<b>Reimbursable Project Aid- received-Sh-35</b>			-
<b>D</b>				
<b>E</b>	<b>NET CASH OUTFLOW FROM OPERATING ACTIVITIES (A-B-C-D)</b>			<b>(51,550,428,319)</b>
	<b>CASH FLOW FROM INVESTING ACTIVITIES</b>			
	Consumers Security Deposit -Note-27 (Closing-Opening)	293,491,761		
	Capital Expenditure-UPIS- Sh-3	(8,030,835,029)		
	Capital Expenditure-PIP*06 ( Net Cash)	(52,023,406,437)		
	Employees Contribution to GPF, CPF and Pension Fund-Note-28 & 29 (Closing-Opening)	1,804,713,556		
	Investment in Share -07	(1,347,257,720)		
	Encashment of FDR-Sh-07	10,743,387,728		
	Investment in FDR-Sh-07	(10,583,071,847)		
<b>F</b>	<b>NET CASH OUT FLOW FROM INVESTING ACTIVITIES</b>			<b>(59,142,977,988)</b>
	<b>CASH FLOW FROM FINANCING ACTIVITIES</b>			
	Capital Contribution -Note-17 (Closing-Opening)	13,639,791,600		
	Grant-Note-20 (Closing- Opening)	1,000,750,000		
	Govt. Loan- Sh-24 (Loan Drawn during the Year)	9,613,674,400		
	Reimbursable Project Aid- received-Sh-35	-		
	Foreign Loan- Sh-26.Loan wise(Loan Drawn during the Year)	12,740,686,347		
	Deposit Work Fund -Note-21 (Closing- Opening)	1,606,830,242		
	DSL ( Principal due ) PGCB, APSCL and WZPDC (Except Cash) A/R Other	1,818,184,397		
	DSL ( Interest ) PGCB, APSCL and WZPDC (Except Cash) A/R Other	428,169,709		
	Repayment of Foreign Loan-Sh-34	(7,538,421,676)		
	Repayment of Govt. Loan-Sh-34	(700,000,000)		
	Refund of Govt. Loan- Sh-24	(10,998,400)		
	Refund of Equity to GOB	(16,497,600)		
<b>G</b>	<b>NET CASH INFLOW FROM FINANCING ACTIVITIES</b>			<b>32,582,169,019</b>
<b>H</b>	<b>NET CASH OUTFLOW (E+F+G)</b>			<b>(78,111,237,288)</b>
<b>I</b>	<b>CASH RECEIVED FROM GOVT. AS SUBSIDY</b>			<b>79,667,300,000</b>
<b>J</b>	<b>OPENING CASH IN HAND</b>			<b>48,816,713,898</b>
<b>K</b>	<b>CLOSING CASH IN HAND (H+I+J)</b>			<b>50,372,776,610</b>



## STATEMENT OF FINANCIAL POSITION (GENERATION AND BULK)

AS AT JUNE 30, 2019

Figures In Taka

PROPERTY AND ASSETS	AS AT 30-06-2019	AS AT 30-06-2018
<b>NON-CURRENT ASSETS</b>		
UTILITY PLANT IN SERVICE	474,184,862,295	421,221,469,107
LESS : ACCUMULATED DEPRECIATION	194,324,290,671	180,221,185,894
<b>WRITTEN DOWN VALUE</b>	<b>279,860,571,624</b>	<b>241,000,283,213</b>
PROJECT IN PROGRESS	107,538,112,793	120,509,875,640
INVESTMENT IN SHARES	19,802,464,757	18,455,207,037
<b>TOTAL NON-CURRENT ASSETS</b>	<b>407,201,149,174</b>	<b>379,965,365,890</b>
<b>CURRENT ASSETS</b>		
INVESTMENT	58,563,414,704	59,330,982,819
CASH IN HAND AND AT BANK	38,982,839,427	36,964,240,597
ACCOUNTS RECEIVABLE - TRADE	91,991,525,724	88,336,912,421
ACCOUNTS RECEIVABLE - BULK	39,707,119,037	36,391,291,982
ACCOUNTS RECEIVABLE - OTHERS	27,630,907,366	28,954,460,313
ADVANCE TO CONTRACTORS & SUPPLIERS	4,721,222,110	8,761,436,486
ADVANCE TO EMPLOYEES	1,096,499,617	969,908,287
STOCK AND STORES	15,605,280,493	12,807,027,285
SECURITY DEPOSIT TO OTHER UTILITIES	754,741,794	685,181,000
INCOME TAX DEDUCTION AT SOURCE	4,947,104,973	4,191,797,201
<b>TOTAL CURRENT ASSETS</b>	<b>284,000,655,246</b>	<b>277,393,238,391</b>
<b>TOTAL PROPERTY AND ASSETS</b>	<b>691,201,804,420</b>	<b>657,358,604,282</b>

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Workshop on "Integrating Master Plan in Power Sector Growth"



## STATEMENT OF FINANCIAL POSITION (GENERATION AND BULK)

AS AT JUNE 30, 2019

Figures In Taka

EQUITY AND LIABILITIES	AS AT 30-06-2019	AS AT 30-06-2018
<b>EQUITY AND RESERVE</b>		
PAID UP CAPITAL	151,464,365,093	149,109,354,893
GOVERNMENT EQUITY	2,574,060,000	-
RETAINED EARNINGS	(546,244,441,064)	(542,757,368,679)
APPRAISAL SURPLUS	89,477,620,309	89,477,620,309
GRANTS	5,087,812,642	4,137,812,642
LIQUIDITY DAMAGE RESERVE	72,053,500	72,053,500
ASSETS INSURANCE FUND	297,000,000	285,000,000
MAINTANANCE & DEVELOPMENT FUND	86,064,523,213	74,391,348,621
	<b>(211,207,006,307)</b>	<b>(225,284,178,715)</b>
<b>NON-CURRENT LIABILITIES</b>		
BUDGETARY SUPPORT FROM GOVT.	431,601,200,000	431,601,200,000
GOVERNMENT LOAN	59,852,728,803	59,169,963,063
FOREIGN LOAN	129,817,178,432	127,693,239,477
GPF & CPF	5,423,028,497	4,770,941,257
GRATUITY & PENSION FUND	10,826,471,992	10,133,802,913
	<b>637,520,607,724</b>	<b>633,369,146,711</b>
<b>CURRENT LIABILITIES</b>		
ACCOUNTS PAYABLE	70,441,289,679	70,779,650,276
SECURITY DEPOSIT (CONTRACTORS AND SUPPLIERS)	1,137,696,826	1,234,331,936
CURRENT PORTION OF LONG TERM LIABILITIES	10,163,058,471	6,902,820,776
DEBT SERVICING LIABILITIES (PRINCIPAL)	54,742,576,389	51,016,643,114
REIMBURSABLE PROJECT AID	516,533,039	516,533,039
DEBT SERVICING LIABILITIES (INTEREST)	48,318,749,798	45,901,885,215
INTEREST ON BUDGETARY SUPPORT FROM GOVT.	69,649,057,760	56,701,021,760
OTHER LIABILITIES	1,229,467,959	1,123,830,667
	<b>256,198,429,921</b>	<b>234,176,716,784</b>
CLEARING ACCOUNTS	8,689,773,081	15,096,919,500
<b>TOTAL EQUITY AND LIABILITIES</b>	<b>691,201,804,420</b>	<b>657,358,604,282</b>

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## STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME OF GENERATION AND BULK SUPPLY

FOR THE YEAR ENDED JUNE 30, 2019

Figures In Taka

PARTICULARS	FY 2018-19	FY 2017-18
<b>OPERATING REVENUE</b>		
ENERGY SALES ( BULK )	319,293,547,796	286,698,986,776
OTHER OPERATING INCOME	12,739,673,287	6,945,106,873
	<b>332,033,221,082</b>	<b>293,644,093,648</b>
<b>OPERATING EXPENSES</b>		
FUEL EXPENSES	42,493,542,803	61,219,957,392
PERSONNEL EXPENSES	5,812,280,428	5,593,382,270
OFFICE EXPENSES	381,390,392	383,478,326
REPAIRS AND MAINTENANCE EXPENSES	4,355,067,468	5,504,967,624
DEPRECIATION	13,875,129,725	12,581,441,059
<b>TOTAL OWN GENERATION EXPENSES</b>	<b>66,917,410,817</b>	<b>85,283,226,671</b>
ELECTRICITY PURCHASE FROM IPP	157,485,024,369	104,105,913,212
ELECTRICITY PURCHASE FROM INDIA	37,026,349,447	28,125,816,144
ELECTRICITY PURCHASE FROM RENTAL	50,136,234,417	62,817,273,381
ELECTRICITY PURCHASE FROM PUBLIC PLANT	68,392,984,316	72,895,422,864
GENERAL AND ADMINISTRATIVE EXPENSES	3,022,673,212	2,863,504,957
<b>TOTAL OPERATING EXPENSES</b>	<b>382,980,676,578</b>	<b>356,091,157,229</b>
<b>OPERATING INCOME / (LOSS)</b>	<b>(50,947,455,496)</b>	<b>(62,447,063,581)</b>
FINANCING AND OTHER CHARGES	6,083,024,357	4,103,230,723
INTEREST ON BUDGETARY SUPPORT FROM GOVT.	12,948,036,000	11,883,129,000
<b>INCOME / (LOSS)</b>	<b>(69,978,515,853)</b>	<b>(78,433,423,304)</b>
LOSS/(GAIN) DUE TO EXCHANGE RATE FLUCTUATION	720,941,025	2,051,954,626
ASSETS INSURANCE FUND	12,000,000	12,000,000
PROVISION FOR MAINTANANCE AND DEVELOPMENT FUND	9,981,987,450	11,626,667,036
SUBSIDY FROM GOVT.	(79,667,300,000)	(9,562,000,000)
<b>COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR</b>	<b>(1,026,144,328)</b>	<b>(82,562,044,966)</b>
<b>RETAINED EARNINGS</b>		
BALANCE AS ON JULY 01, 2018	(542,757,368,679)	(460,251,696,587)
PREVIOUS YEAR'S ADJUSTMENT	(2,460,928,057)	56,372,874
COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR	(1,026,144,328)	(82,562,044,966)
<b>BALANCE AS ON JUNE 30, 2019</b>	<b>(546,244,441,064)</b>	<b>(542,757,368,679)</b>

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## STATEMENT OF FINANCIAL POSITION (DISTRIBUTION)

AS AT JUNE 30, 2019

Figures In Taka

PROPERTY AND ASSETS	AS AT 30-06-2019	AS AT 30-06-2018
<b>NON-CURRENT ASSETS</b>		
UTILITY PLANT IN SERVICE	143,769,626,493	135,161,371,071
LESS : ACCUMULATED DEPRECIATION	64,411,191,194	60,245,970,078
<b>WRITTEN DOWN VALUE</b>	<b>79,358,435,299</b>	<b>74,915,400,993</b>
PROJECT IN PROGRESS	40,568,981,038	25,251,221,325
INVESTMENT IN SHARES	4,913,802,191	4,913,802,191
<b>TOTAL NON-CURRENT ASSETS</b>	<b>124,841,218,527</b>	<b>105,080,424,509</b>
<b>CURRENT ASSETS</b>		
INVESTMENT	12,856,173,739	12,248,921,510
CASH IN HAND AND AT BANK	11,389,937,183	11,852,473,300
ACCOUNTS RECEIVABLE - TRADE	19,595,817,081	19,684,392,216
ACCOUNTS RECEIVABLE - OTHERS	3,056,508,504	2,894,374,285
PROVISION FOR BAD AND DOUBTFUL DEBTS	(1,236,107,585)	(1,236,107,585)
ADVANCE TO CONTRACTORS AND SUPPLIERS	47,390,221	409,281
ADVANCE TO EMPLOYEES	899,977,221	854,804,490
STOCK AND STORES	1,406,828,695	1,338,757,797
SECURITY DEPOSIT TO OTHER UTILITIES	8,254,138	9,483,749
INCOME TAX DEDUCTION AT SOURCE	291,135,502	254,922,218
<b>TOTAL CURRENT ASSETS</b>	<b>48,315,914,699</b>	<b>47,902,431,262</b>
<b>TOTAL PROPERTY AND ASSETS</b>	<b>173,157,133,226</b>	<b>152,982,855,771</b>

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Signing of contract between BPDB and Hussain Farhad and Co. (CA firm) for providing consultancy service under IVVR project.



A delegation of Saudi Company ACWA Power and Saudi Aramco met BPDB chairman Engr. Khaled Mahmood at Bidyut Bhaban.



## STATEMENT OF FINANCIAL POSITION (DISTRIBUTION)

AS AT JUNE 30, 2019

Figures In Taka

EQUITY AND LIABILITIES	AS AT 30-06-2019	AS AT 30-06-2018
<b>EQUITY AND RESERVE</b>		
PAID UP CAPITAL	48,325,314,338	38,850,370,538
RETAINED EARNINGS	(33,393,003,761)	(32,670,555,359)
APPRAISAL SURPLUS	27,580,251,173	27,580,251,173
GOVT. EQUITY AGAINST DESCO'S SHARE	3,328,924,865	3,328,924,865
GRANTS	2,348,943,218	2,298,193,218
DEPOSIT WORK FUND	5,061,162,856	3,454,332,614
ASSETS INSURANCE FUND	93,000,000	90,000,000
	<b>53,344,592,689</b>	<b>42,931,517,049</b>
<b>NON-CURRENT LIABILITIES</b>		
GOVERNMENT LOAN	22,259,537,373	16,633,717,423
FOREIGN LOAN	12,308,495,220	11,755,805,131
SECURITY DEPOSIT (CONSUMERS)	5,906,988,627	5,613,496,867
GPF AND CPF	3,641,024,453	3,271,830,250
GRATUITY AND PENSION FUND	3,644,490,291	3,553,727,256
	<b>47,760,535,965</b>	<b>40,828,576,927</b>
<b>CURRENT LIABILITIES</b>		
ACCOUNTS PAYABLE	1,179,988,851	1,177,015,478
ACCOUNTS PAYABLE TO BPDB GENERATION & BULK	39,707,119,037	36,391,291,982
SECURITY DEPOSIT (CONTRACTORS & SUPPLIERS)	511,213,772	385,745,916
CURRENT PORTION OF LONG TERM LIABILITIES	1,256,859,224	1,220,496,364
DEBT SERVICING LIABILITIES (PRINCIPAL)	25,954,586,714	24,440,417,765
REIMBURSABLE PROJECT AID	507,754,421	507,754,421
DEBT SERVICING LIABILITIES (INTEREST)	18,535,277,144	17,317,258,762
OTHER LIABILITIES	884,884,062	721,481,581
	<b>88,537,683,225</b>	<b>82,161,462,268</b>
CLEARING ACCOUNTS	(16,485,678,657)	(12,938,700,473)
<b>TOTAL EQUITY AND LIABILITIES</b>	<b>173,157,133,226</b>	<b>152,982,855,771</b>

**A B SAHA & CO.**  
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## STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME OF DISTRIBUTION

FOR THE YEAR ENDED JUNE 30, 2019

Figures In Taka

PARTICULARS	FY 2018-19	FY 2017-18
<b>OPERATING REVENUE</b>		
ENERGY SALES (RETAIL)	73,329,681,412	66,127,378,824
OTHER OPERATING INCOME	1,688,759,465	1,687,448,336
	<b>75,018,440,876</b>	<b>67,814,827,160</b>
<b>OPERATING EXPENSES</b>		
POWER PURCHASE COST AS PER BST	61,982,935,436	55,414,775,357
TRANSMISSION EXPENSES FOR WHEELING CHARGE	2,150,187,186	1,829,178,719
<b>TOTAL ENERGY IMPORT COST</b>	<b>64,133,122,622</b>	<b>57,243,954,076</b>
PERSONNEL EXPENSES	3,709,884,906	3,463,737,589
OFFICE EXPENSES	361,393,348	378,369,073
REPAIR AND MAINTENANCE EXPENSES	1,320,996,385	1,606,075,675
DEPRECIATION	4,082,790,925	3,787,129,159
PROVISION FOR BAD DEBTS	-	-
<b>TOTAL DISTRIBUTION EXPENSES</b>	<b>9,475,065,565</b>	<b>9,235,311,496</b>
GENERAL AND ADMINISTRATIVE EXPENSES	927,076,684	963,247,431
<b>TOTAL OPERATING EXPENSES</b>	<b>74,535,264,871</b>	<b>67,442,513,002</b>
<b>OPERATING INCOME / (LOSS)</b>	<b>483,176,006</b>	<b>372,314,158</b>
FINANCING AND OTHER CHARGES	965,308,881	954,267,162
<b>INCOME / (LOSS)</b>	<b>(482,132,875)</b>	<b>(581,953,003)</b>
LOSS/(GAIN) DUE TO EXCHANGE RATE FLUCTUATION	234,865,648	392,523,560
ASSETS INSURANCE FUND	3,000,000	3,000,000
<b>COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR</b>	<b>(719,998,523)</b>	<b>(977,476,564)</b>
<b>RETAINED EARNINGS</b>		
BALANCE AS ON JULY 01, 2018	(32,670,555,359)	(31,693,164,453)
PREVIOUS YEAR'S ADJUSTMENT	(2,449,879)	85,658
COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR	(719,998,523)	(977,476,564)
<b>BALANCE AS ON JUNE 30, 2019</b>	<b>(33,393,003,761)</b>	<b>(32,670,555,359)</b>

**A B SAHA & CO.**  
Chartered Accountants

**MARHK & CO.**  
Chartered Accountants



## INCOME STATEMENT AND BALANCE SHEET RATIOS

Name of Ratio	Formula	June 30, 2019		June 30, 2018	
		Calculations	Result	Calculations	Result
Operating Income Ratio	Operating Income	(50,464,279,489.90)	(14.62)%	(62,074,749,422.68)	(20.28)%
	Total operating revenue	345,068,726,523.09		306,044,145,451.90	
Rate of Return on Asset	Operating Income	(50,464,279,489.90)	(8.17)%	(62,074,749,422.68)	(11.16)%
	Operating Average fixed Assets	617,954,488,788		556,382,840,177	
Operating Expenses Ratio	Operating Expenses	395,533,006,012.99	114.62%	368,118,894,874.58	120.28%
	Operating revenue	345,068,726,523.09		306,044,145,451.90	
Current Ratio	Total Current Assets	292,609,450,905.62	0.96:1	288,904,377,664.98	1.03:1
	Total Current Liabilities	305,028,994,110.66		279,946,887,071.07	
Quick Ratio	Total Current Assets - Inventory	292,609,450,906-17,012,109,189	0.90:1	288,904,377,665-14,145,785,082	0.98:1
	Total Current Liabilities	305,028,994,110.66		279,946,887,071.07	
Debt-Equity Ratio	Total Long Term Debt	655,839,139,828.29	(4.15):1	646,853,925,094.75	(3.55):1
	Total Equity Capital	(157,862,413,618.76)		(182,352,661,672.92)	

## CONSOLIDATED SCHEDULE OF EXPENSES

Figures In Taka

Head of Accounts	Generation Expenses	Distribution Expenses	Gen. & Admn. Expenses	Total Expenses FY 2018-2019	Total Expenses FY 2017-2018
<b>Fuel Consumption for Generation</b>					
Natural Gas	12,258,800,013	-	-	12,258,800,013	8,447,625,901
Liquid fuel	23,897,850,210	-	-	23,897,850,210	44,187,471,187
Coal	6,336,892,511	-	-	6,336,892,581	8,584,860,305
<b>Sub Total</b>	<b>42,493,542,803</b>	<b>-</b>	<b>-</b>	<b>42,493,542,803</b>	<b>61,219,957,392</b>
Personnel Expenses	5,812,280,428	3,709,884,906	2,673,166,201	12,195,331,535	11,777,673,236
Office and Other Expenses	381,390,392	361,393,348	529,240,491	1,272,024,232	1,179,245,017
Repairs and Maintenance	4,355,067,468	1,320,996,385	436,937,964	6,113,001,817	7,529,604,831
Depreciation	13,875,129,725	4,082,790,925	310,405,240	18,268,325,891	16,638,673,406
Bad debts	-	-	-	-	136,671
Wheeling Charge	-	2,150,187,186	-	2,150,187,186	1,829,178,719
<b>Sub Total</b>	<b>24,423,868,014</b>	<b>11,625,252,751</b>	<b>3,949,749,896</b>	<b>39,998,870,660</b>	<b>38,954,511,881</b>
<b>Electricity Purchase</b>					
From IPP and SIPP.	157,485,024,369	-	-	157,485,024,369	104,105,913,212
From Rental Plant	50,136,234,417	-	-	50,136,234,417	62,817,273,381
From Public Plant	68,392,984,316	-	-	68,392,984,316	72,895,422,864
From India	37,026,349,447	-	-	37,026,349,447	28,125,816,144
<b>Sub Total</b>	<b>313,040,592,549</b>	<b>-</b>	<b>-</b>	<b>313,040,592,549</b>	<b>267,944,425,601</b>
Financing & other charges	6,083,024,357	965,308,881	-	7,048,333,238	5,057,497,885
Interest on Budgetary Support	12,948,036,000	-	-	12,948,036,000	11,883,129,000
Maint. and Dev. Expenses	9,981,987,450	-	-	9,981,987,450	11,626,667,036
Provision for Assets Ins.	12,000,000	3,000,000	-	15,000,000	15,000,000
<b>Sub Total</b>	<b>29,025,047,807</b>	<b>968,308,881</b>	<b>-</b>	<b>29,993,356,688</b>	<b>28,582,293,920</b>
<b>Grand Total</b>	<b>408,983,051,174</b>	<b>12,593,561,632</b>	<b>3,949,749,896</b>	<b>425,526,362,701</b>	<b>396,701,188,795</b>



## DETAILS OF PERSONNEL EXPENSES

Figures In Taka

Head of Accounts	Generation Expenses	Distribution Expenses	General & Administrative Expenses	Total
Pay of Officers	467,807,502	270,081,232	387,183,489	1,125,072,223
Pay of Staff	866,973,533	725,100,932	355,650,718	1,947,725,183
Allowances of Officers	312,174,050	118,167,988	188,209,243	618,551,281
Allowances of Staff	640,521,783	451,321,267	223,461,015	1,315,304,065
Leave Encashment	32,139,762	26,986,462	21,398,836	80,525,060
Overtime Allowances (Single Rate)	151,179,753	116,319,141	55,041,195	322,540,090
Overtime Allowances (Double Rate)	618,197,707	428,900,643	136,978,126	1,184,076,476
House Rent Expenses	-	-	716,952	716,952
Medical Expenses	18,134,503	9,129,568	5,526,225	32,790,296
Bonus for Officers	71,900,194	43,982,065	61,597,510	177,479,769
Bonus for Staff	146,087,250	117,475,106	54,486,860	318,049,216
Bangla Nobo Barsho Allowance (For Officers)	7,692,369	6,265,272	6,545,949	20,503,590
Bangla Nobo Barsho Allowance (For Staff)	13,563,420	11,919,167	9,462,185	34,944,772
Employees Electricity Rebate	153,683,143	120,928,465	67,630,651	342,242,259
Workmen Compensation	-	-	-	-
Gratuity	-	-	137,800	137,800
Income Tax of Officers & Staff	-	-	-	-
Employees Other Benefit & Welfare Expenses	4,765,044	3,146,054	76,681,381	84,592,479
Reimbursement for Treatment of Accident (on duty) affected Employee	-	-	-	-
Board's Contribution to CPF	302,120	674,480	-	976,600
Board's Contribution to Pension Fund	1,827,233,997	813,757,881	581,878,562	3,222,870,440
Leave Encashment on Retirement	94,063,386	84,012,770	82,880,478	260,956,634
L. Salary & Pension Cont. for Trans. Govt. Employees	-	-	-	-
Honorarium Punishment/Reward Scheme	109,370,570	153,486,565	155,491,576	418,348,711
Honorarium Others	43,016,392	7,677,296	12,519,185	63,212,873
Wages for Hired Labour	233,473,951	196,184,207	59,528,621	489,186,779
Computerization of Commercial Operation	-	4,277,708	130,159,644	134,437,352
Service charge for collection of Electricity Bill by Mobile Phone Co.	-	90,636	-	90,636
Contract out- Commercial Operation activities	-	-	-	-
Interest on GPF/CPF	-	-	-	-
<b>Total Personnel Expenses</b>	<b>5,812,280,428</b>	<b>3,709,884,906</b>	<b>2,673,166,201</b>	<b>12,195,331,535</b>



## DETAILS OF OFFICE AND OTHER EXPENSES

Figures In Taka

Head of Accounts	Generation	Distribution	General & Administrative	Total
Traveling Expenses/ Allowances(For Official)	107,061,743	102,177,634	89,318,205	298,557,582
Traveling Expenses (For Training)	18,137,354	1,637,405	13,234,153	33,008,912
Conveyance Charge	1,467,946	5,662,816	5,438,626	12,569,388
Washing Expenses	195,539	245,746	722,390	1,163,675
Representation & Entertainment	611,964	48,913	15,263,080	15,923,957
Stationary & Printing	12,479,241	48,097,420	50,863,573	111,440,233
Taxes, Licence & Fees	39,353,240	14,283,289	41,511,391	95,147,920
Office Rent	-	5,499,863	2,463,413	7,963,276
Water Charges	6,280,003	4,091,145	7,539,738	17,910,886
Electricity Charges (Own use)	144,232,472	117,369,906	47,454,683	309,057,060
Electricity Rebate - Freedom fighters	-	2,928,084	-	2,928,084
Uniforms & Liveries	8,972,588	7,361,455	2,854,521	19,188,564
Post & Telegram	481,064	825,996	2,244,728	3,551,788
Telephone,Telex & Fax	7,844,823	8,525,351	5,288,231	21,658,405
Advertising & Promotion	27,185,798	30,235,125	161,242,979	218,663,902
Audit Fee	12,500	6,911,000	1,883,800	8,807,300
Legal Expenses (Lawyer's Fees & Court Fees)	205,590	5,043,201	8,387,333	13,636,124
Books & Periodicals	826,339	417,000	826,935	2,070,274
Donation & Contributions	5,970,189	-	2,393,795	8,363,984
Donation to sick Employees from Benevolent Fund	-	-	-	-
Training & Education	72,000	32,000	70,308,918	70,412,918
Training & Education- Foreign	-	-	-	-
Allocation of Gen. Admn. Exp.	-	-	-	-
Miscellaneous Expenses	-	-	-	-
<b>Total Office &amp; Other Expenses</b>	<b>381,390,392</b>	<b>361,393,348</b>	<b>529,240,491</b>	<b>1,272,024,232</b>



Signing of contract between BPDB and Dongfang Electric International Corporation for establishment of Saidpur 150 MW Power Plant.



Power Purchase Agreement between BPDB and Summit Meghnaghat-2 Power Company Ltd. for purchasing power from Meghnaghat 583 MW Power Plant.



## DETAILS OF REPAIR AND MAINTENANCE EXPENSES

Figures In Taka

Head of Accounts	Generation	Distribution	General & Administrative	Total
Petrol/ Diesel & Lubricants Used for Transport	34,218,977	105,861,975	60,065,551	200,146,503
CNG Used for Vehicle	6,376,723	3,753,012	3,439,799	13,569,534
Petrol/ Diesel & Lubricants Used for Other Equipment	200,710,662	-	-	200,710,662
Store & Spares Used	295,390,556	110,664,272	10,718,153	416,772,981
Store & Spares Used-Foreign	-	-	-	-
Store & Spares Used-Received from other stores	-	-	-	-
Custom Duties & Sale Tax	654,812,075	297,042,577	-	951,854,652
Vat	224,850,145	-	-	224,850,145
Demarrage & Warfront	-	-	-	-
Hire of Equipment	-	-	-	-
Freight & Handling	50,537,149	144,436,199	128,619	195,101,966
Insurance (For Goods & Property)	20,588	-	1,924	22,512
Insurance (For Transportation Equipment)	2,653,196	2,239,813	2,959,237	7,852,246
Insurance For Vehicle & other	-	-	10,509,265	10,509,265
Bank Charge & Commission	28,977,940	60,928,890	21,539,836	111,446,665
Contractor's Fees	-	-	-	-
Office Maintenance	-	-	-	-
Store Maintenance	-	-	-	-
Consultants Expenses Local	549,759	23,593,158	33,258,010	57,400,927
Consultants Expenses Foreign	646,351,300	11,093,772	25,782,777	683,227,849
Land & Land Rights	-	-	-	-
Structure & Improvement	60,161,736	84,005,928	181,701,896	325,869,560
Boiler Plant equipment	41,124,350	808,821	-	41,933,171
Engine & Engine Driven Generators	23,484,020	-	-	23,484,020
Generator	47,396,959	-	-	47,396,959
Prime Movers	19,603,851	-	-	19,603,851
Accessory elect. equipment	1,213,418	8,980	-	1,222,398
Reservoir, Dams & Waterways	3,213,141	-	-	3,213,141
Water Wheels and Turbines	-	-	-	-
Roads, Rail Roads & Bridges	-	-	-	-
Fuel Holders, Producers & Accessories	-	-	-	-
Station Equipment	1,939,093,524	3,958,511	307,117	1,943,359,152
Towers and Fixtures	-	109,489	-	109,489
Poles & Fixtures	-	-	-	-
Overhead Conduct & Devices	10,910,637	387,945,870	4,428,605	403,285,111
Underground Conductors	-	-	-	-
Line Transformers	-	149,949	-	149,949
Transformer Manufacturing	-	188,310	-	188,310
Street Lighting and Single Systems	-	-	-	-
Metters	818,666	-	-	818,666
Transportation Equipment's	33,213,193	73,671,133	68,942,886	175,827,212
Heavy & Other Power Operated Equipment's	-	-	11,080	11,080
Office furniture & Equipment	1,804,854	7,949,520	8,024,944	17,779,318
Office furniture & Equipment (Computer, Monitor & Others)	84,450	-	128,615	213,065
Communication Equipments	-	-	-	-
Tools, Shop and Garage Equipments	-	1,968,915	1,727,454	3,696,369
Laboratory Equipment	-	-	-	-
Stores Equipment	27,495,600	617,292	3,225,387	31,338,279
Fire Fighting Equipment	-	-	36,810	36,810
Miscellaneous Equipment	-	-	-	-
<b>Total Repair &amp; Maintenance</b>	<b>4,355,067,468</b>	<b>1,320,996,385</b>	<b>436,937,964</b>	<b>6,113,001,817</b>



## COMPARISON OF ELECTRICITY PURCHASE FROM IPP AND SIPP WITH PREVIOUS YEAR

Particulars	Nature of Fuel	FY 2018-2019			FY 2017-2018		
		Unit kWh	Amount In Tk.	Cost/kWh	Unit kWh	Amount In Tk.	Cost/kWh
Khulna Power Company Ltd.	HFO	105,934,584	1,365,644,202	12.89	420,024,848	4,350,520,616	10.36
NEPC Consortium Power Ltd.	HFO	104,846,900	2,072,906,353	19.77	165,249,900	2,163,238,665	13.09
RPCL 52MW Gazipur	HFO	245,282,040	2,988,598,490	12.18	302,618,124	3,522,279,219	11.64
RPCL 25MW Raozan	HFO	112,143,456	1,339,813,835	11.95	140,503,330	1,698,818,163	12.09
Raj Lanka Power Limited	HFO	238,487,933	2,885,554,726	12.10	225,936,819	2,591,250,631	11.47
Baraka Patenga Power Limited	HFO	250,415,136	2,827,751,225	11.29	277,917,456	2,506,396,859	9.02
Digital Power & Associates Ltd.	HFO	257,834,736	3,403,344,219	13.20	355,008,805	3,452,209,189	9.72
Sinha people Energy Ltd	HFO	180,756,288	2,327,103,429	12.87	107,157,360	1,257,955,712	11.74
ECVP Power Ltd	HFO	407,314,680	4,995,294,312	12.26	593,603,040	5,528,958,240	9.31
Lakdhanavi Bangla Power Ltd	HFO	88,419,214	1,512,942,205	17.11	103,741,615	1,525,388,233	14.70
Summit Narayananj Power Unit-II Ltd.	HFO	195,645,957	2,486,648,174	12.71	299,926,533	2,784,897,374	9.29
Summit Barisal Power Ltd.	HFO	360,597,024	4,655,710,946	12.91	535,777,528	4,910,158,196	9.16
Dhaka Southern Power Limited	HFO	231,642,627	2,931,159,878	12.65	288,291,222	2,676,898,296	9.29
Dhaka Northern Power Limited	HFO	252,122,106	3,056,609,791	12.12	294,282,591	2,844,181,300	9.66
PowerPac Muturia-Jamalpur	HFO	366,057,946	4,791,078,725	13.09	462,863,281	5,462,289,226	11.80
CLC Power Company Ltd	HFO	228,447,004	3,235,680,227	14.16	305,834,659	3,173,291,034	10.38
M/S Banco Energy Generation Ltd. 53.972MW	HFO	253,455,372	3,127,758,077	12.34	135,402,012	1,544,722,704	11.41
UMPL 200 MW	HFO	653,489,120	8,756,691,193	13.40	52,346,400	457,766,832	8.74
Kidda Gazipur 300 (Summil Unit-)	HFO	671,643,491	9,593,736,108	14.28	198,423,175	2,194,039,402	11.06
Summit Meghnaghat Power Ltd.	HFO	-	-	-	-	-	-
Aggreko International Projects Ltd. (95MW)	HFO	-	-	-	-	-	-
Acorn Infrastructure Services Unit-3 Ltd	HFO	368,699,319	3,903,550,067	10.59	-	-	-
Orion Power Rupsha Limited (OPRL),Khulna (105 MW)	HFO	302,803,587	3,645,807,575	12.04	-	-	-
Desh Energy Chandpur Power Company Ltd. (DECPCCL)	HFO	387,345,705	5,227,662,497	13.50	-	-	-
Midland East Power .Ltd(MEPL) 150MW Ashuganj B baria	HFO	165,551,105	2,840,810,715	17.16	-	-	-
Baraka Shikalbaha Power Ltd. 105 MW	HFO	45,556,671	542,023,533	11.90	-	-	-
Confidence Power Bogra Unit-2 Limited	HFO	135,611,136	1,750,345,931	12.91	-	-	-
United Jamalpur 115 MW	HFO	230,414,684	2,797,803,450	12.14	-	-	-
United Anawara 300 MW	HFO	131,861,760	1,219,721,280	9.25	-	-	-
RPCL-105 MW Gazipur	HFO	96,280,944	866,528,496	9.00	-	-	-
ACE Alliance Power Limited (149 MW)	HFO	443,332,816	5,243,258,884	11.83	-	-	-
Doreen Power Generation & System Ltd.-Feni	HFO	-	-	-	-	-	-
Doreen Power Generation & System Ltd.- Tangail	HFO	-	-	-	-	-	-
<b>TOTAL IPP &amp; SIPP (HFO)</b>		<b>7,511,993,342</b>	<b>96,391,538,545</b>	<b>12.83</b>	<b>5,264,908,698</b>	<b>54,645,259,890</b>	<b>10.38</b>
Summit Meghnaghat Power Ltd.	HSD	274,652,919	6,068,100,344	22.09	830,206,729	16,497,031,577	19.87
Bangla Trac Power Unit- I Limited	HSD	53,481,024	4,410,558,290	82.47	43,398,336	1,347,442,237	31.05
Bangla Trac Power Unit-II Limited	HSD	116,391,360	3,695,084,304	31.75	38,680,608	1,005,326,698	25.99
Aggreko Energy Solution Ltd 100 MW, Aorahati	HSD	43,176,939	2,481,108,402	57.46	8,933,647	143,742,380	16.09
Aggreko Power Solution Ltd 100 MW, Bhahmangoan	HSD	29,279,018	2,218,646,691	75.78	14,951,645	393,671,402	26.33
APR Energy 300 MW	HSD	83,692,925	6,082,956,824	72.68	25,928,945	421,345,356	16.25
Paramount BTrac Energy Limited., Bagabari, Sirajganj (200MW)	HSD	20,164,916	1,633,755,115	81.02	-	-	-
<b>Sub. Total IPP HSD</b>		<b>620,839,100</b>	<b>26,590,209,969</b>	<b>42.83</b>	<b>962,099,910</b>	<b>19,808,559,650</b>	<b>20.59</b>
ENGREEN Solar	SOLAR	4,073,350	64,919,129	15.94	3,367,010	55,228,087	16.40
Technaf Solartech Energy Limited (20 MW)	SOLAR	31,696,433	370,591,722	11.69	-	-	-
<b>Sub. Total IPP Solar</b>		<b>35,769,783</b>	<b>435,510,851</b>	<b>12.18</b>	<b>3,367,010</b>	<b>55,228,087</b>	<b>16.40</b>
Westmont Power (Bangladesh) Pvt. Ltd.	GAS	-	-	-	-	-	-
Meghnaghat Power Ltd	GAS	2,936,374,438	6,066,951,502	2.07	3,215,051,712	6,932,448,878	2.16
Haripur Power Ltd	GAS	2,411,163,800	3,234,280,511	1.34	2,500,503,070	3,648,595,438	1.46
Rural Power Co. Ltd (210MW)	GAS	1,007,336,904	3,554,063,448	3.53	1,012,729,264	4,013,100,094	3.96
United Power Generation & Distribution	GAS	191,850,240	569,502,054	2.97	169,342,080	471,167,703	2.78
Regent Energy & Power Ltd.	GAS	354,669,185	1,279,662,161	3.61	463,345,635	1,385,956,823	2.99
Midland Power Company Ltd.	GAS	221,227,941	639,445,171	2.89	170,384,648	599,873,618	3.52
Doreen Power Ltd, Feni	GAS	153,741,252	387,611,669	2.52	153,888,560	386,538,316	2.51
Doreen Power Tangail	GAS	141,895,048	376,513,287	2.65	147,008,215	378,982,346	2.58
Regent Power Limited	GAS	163,349,152	404,444,041	2.48	149,556,764	398,428,569	2.66
Summit Purbanchal Power Ltd.	GAS	184,659,264	680,413,387	3.68	213,583,410	764,809,059	3.58
United Ashuganj Energy Ltd	GAS	410,689,172	3,364,048,191	8.19	721,580,924	3,734,602,574	5.18
Summit Bibiyana II Power Company Ltd	GAS	2,275,778,120	4,928,709,112	2.17	2,384,068,600	5,058,289,114	2.12
Shahjanullah Power Generation Co Ltd	GAS	125,134,056	385,379,047	3.08	117,605,122	364,821,676	3.10
Kushiara Power Company Limited	GAS	1,078,626,003	2,709,875,451	2.51	552,270,809	1,459,251,376	2.64
Summit Meghnaghat Power Ltd.	GAS	636,802,623	2,557,148,508	4.02	-	-	-
Sembcorp NWPC Ltd (Sirajganj 281.991 MW)	GAS	773,306,069	2,929,717,465	3.79	-	-	-
Doreen Southern Power Limited	GAS	-	-	-	-	-	-
Doreen Northern Power Limited	GAS	-	-	-	-	-	-
<b>TOTAL IPP &amp; SIPP (GAS)</b>		<b>13,066,603,267</b>	<b>34,067,765,005</b>	<b>2.61</b>	<b>11,970,918,813</b>	<b>29,596,865,585</b>	<b>2.47</b>
<b>TOTAL IPP &amp; SIPP</b>		<b>21,235,205,492</b>	<b>157,485,024,369</b>	<b>7.42</b>	<b>18,201,294,430</b>	<b>104,105,913,212</b>	<b>5.72</b>



## COMPARISON OF ELECTRICITY PURCHASE FROM PUBLIC PLANTS WITH PREVIOUS YEAR

Particulars	Nature of Fuel	FY 2018-2019			FY 2017-2018		
		Unit kWh	Amount In Tk.	Cost/kWh	Unit kWh	Amount In Tk.	Cost/kWh
Ashujang Power Co. Ltd (573MW)	GAS	1,238,583,358	4,002,455,913	3.23	1,869,508,987	4,777,742,946	2.56
Ashujang 50MW Power Co. Ld (50MW)	GAS	236,096,818	487,165,926	2.06	307,041,444	529,343,258	1.72
Ashujang Power Co. Ltd (225MW)	GAS	1,622,102,643	4,664,116,762	2.88	1,362,588,988	4,359,569,122	3.20
Ashujang Power Co. Ltd (450MW) South	GAS	2,427,896,984	7,993,985,091	3.29	2,314,541,302	7,766,000,107	3.36
Ashujang Power Co. Ltd (450MW) North	GAS	2,238,446,455	5,818,840,573	2.60	1,888,642,727	4,389,383,953	2.32
SBU Haripur	GAS	-	502,973,247		74,314,970	506,373,069	6.81
EGCB Ltd. (210*2) MW, Shiddirgonj	GAS	572,543,832	2,399,317,765	4.19	636,819,480	2,311,774,178	3.63
EGCB 365 MW Simple Cycle	GAS	732,292,831	1,601,038,799	2.19	370,373,819	407,411,201	1.10
EGCB (412MW), Haripur	GAS	2,706,160,962	5,273,081,829	1.95	3,008,508,176	5,655,624,969	1.88
North West Power Gen (Sirajganj) Unit-1	GAS	1,178,922,897	3,406,983,098	2.89	706,257,989	2,238,863,841	3.17
North West Power Gen (Sirajganj)-Unit-2	GAS	965,501,836	3,780,308,240	3.92	153,897,352	356,501,630	2.32
North West Power Gen (Sirajganj)-Unit-3		754,750,611	2,241,054,488				
NWPGCL-360MW Bheramara	GAS	2,001,314,030	3,745,921,882	1.87	1,232,271,180	3,121,424,757	2.53
<b>Sub. Public Plant Gas</b>		<b>16,674,613,258</b>	<b>45,917,243,613</b>	<b>2.75</b>	<b>13,924,766,414</b>	<b>36,420,013,032</b>	<b>2.62</b>
North West Power Gen (Sirajganj) Unit-1	HSD	79,698,199	1,295,095,735	16.25	95,172,599	1,796,698,650	18.88
North West Power Gen (Sirajganj)-Unit-2	HSD	261,846,745	4,170,797,913	15.93	418,783,854	7,292,032,053	17.41
North West Power Gen (Sirajganj)-Unit-3		40,748,299	682,534,000				
North West Power Gen (Khulna)	HSD	346,446,078	8,943,633,431	25.82	994,281,034	18,087,228,782	18.19
<b>Sub. Public Plant HSD</b>		<b>728,739,321</b>	<b>15,092,061,080</b>	<b>20.71</b>	<b>1,508,237,487</b>	<b>27,175,959,486</b>	<b>18.02</b>
North West Power Gen (NWPGCL) - Madhumati 105 MW	HFO	156,871,885	1,786,206,854				
BPDB RPCL PowerGen Ltd	HFO	340,414,742	5,597,472,768	16.44	701,571,144	9,299,450,347	13.26
<b>Sub. Public Plant HFO</b>		<b>497,286,628</b>	<b>7,383,679,623</b>	<b>14.85</b>	<b>701,571,144</b>	<b>9,299,450,347</b>	<b>13.26</b>
<b>Total Public Plant</b>		<b>17,900,639,206</b>	<b>68,392,984,316</b>	<b>3.82</b>	<b>16,134,575,045</b>	<b>72,895,422,864</b>	<b>4.52</b>

## COMPARISON OF ELECTRICITY PURCHASE FROM INDIA WITH PREVIOUS YEAR

Particulars	FY 2018-2019			FY 2017-2018		
	Unit kWh	Amount in Tk.	Cost/kWh	Unit kWh	Amount in Tk.	Cost/kWh
NVVN Ltd. - India	1,807,208,597	6,321,876,283	3.50	1,700,993,976	6,171,489,881	3.63
PTC India Ltd.	718,157,665	4,846,083,974	6.75	1,795,147,914	12,695,149,752	7.07
NVVN Tripura	1,028,298,144	7,709,249,383	7.50	991,485,396	7,728,600,365	7.79
PTC India Ltd.	95,323,500	469,737,349	4.93	300,267,500	1,530,576,145	5.10
Sembcrop Energy India Limited., 250 MW	827,595,358	4,149,262,920	5.01	-	-	-
NVVN Ltd. - India-300 MW	1,750,516,169	9,327,884,121	5.33	-	-	-
PTC India Ltd.	553,754,893	4,202,255,417	7.59	-	-	-
<b>Total Import</b>	<b>6,780,854,326</b>	<b>37,026,349,447</b>	<b>5.46</b>	<b>4,787,894,786</b>	<b>28,125,816,144</b>	<b>5.87</b>



## COMPARISON OF ELECTRICITY PURCHASE FROM RENTAL & QUICK RENTAL PLANTS WITH PREVIOUS YEAR

Particulars	Nature of Fuel	FY 2018-2019			FY 2017-2018		
		Unit Kwh	Amount in Tk.	Cost/kwh	Unit Kwh	Amount in Tk.	Cost/kwh
GBB Power Limited	GAS	161,982,576	519,273,714	3.21	169,812,254	549,924,472	3.24
Shahjibazar Power Co. Ltd.	GAS	474,114,000	1,452,597,031	3.06	381,564,619	1,404,799,121	3.68
Desh Cambridge Kumargaon Power Co. Ltd.	GAS	59,592,250	180,456,550	3.03	45,818,811	172,092,399	3.76
Barkatullah Electro Dynamics Ltd.	GAS	295,735,116	850,781,149	2.88	218,089,032	728,038,763	3.34
Aggreko International Projects Ltd. (145MW)	GAS	-	-	-	510,063,023	2,224,205,817	4.36
Aggreko International Projects Ltd. (85MW)	GAS	317,578,028	1,297,621,382	4.09	334,439,484	1,746,117,538	5.22
Aggreko International Projects Ltd. (95MW)	GAS	633,939,339	2,251,047,415	3.55	176,207,625	622,972,062	3.54
Energyprima Limited, Kumargaon	GAS	284,333,460	812,914,043	2.86	145,590,260	497,922,855	3.42
Energyprima Limited, Shahjibazar	GAS	310,288,608	971,727,476	3.13	258,541,551	937,339,358	3.63
Venture Energy Resources Ltd,	GAS	187,633,112	683,927,996	3.65	166,077,155	751,545,507	4.53
Precision Energy Ltd.	GAS	114,710,412	899,558,013	7.84	117,916,629	642,756,316	5.45
Max Power Ltd	GAS	254,927,322	1,632,409,528	6.40	289,711,985	1,404,225,547	4.85
United Ashugonj Power	GAS	77,028,084	953,092,610	12.37	124,136,842	1,029,064,693	8.29
Energyprima Limited, Bogra	GAS	87,247,220	335,685,081	3.85	77,440,320	155,895,468	2.01
Energyprima Limited, Fenchugonj	GAS	321,997,053	1,070,647,221	3.33	255,959,306	932,022,825	3.64
<b>Total Rental &amp; Quick Rental (GAS)</b>		<b>3,581,106,580</b>	<b>13,911,739,210</b>	<b>3.88</b>	<b>3,271,368,897</b>	<b>13,798,922,743</b>	<b>4.22</b>
Energis Power Corporation Ltd.	HFO	269,937,907	3,440,857,228	12.75	252,667,056	3,107,990,131	12.30
Summit Narayangonj Power Ltd.	HFO	204,833,832	3,458,322,584	16.88	310,136,328	3,746,680,727	12.08
KPCL Unit (2)	HFO	326,928,126	4,787,479,180	14.64	558,435,279	5,748,463,580	10.29
Khanjahan Ali Power	HFO	175,231,613	2,302,054,698	13.14	208,301,441	2,125,464,869	10.20
Quantum Power 105 MW Nowapara	HFO	-	-	-	-	-	-
IEL Consortium & Associates	HFO	207,498,854	3,483,910,638	16.79	380,150,736	4,256,975,452	11.20
Dutch Bangla Power & Associates Ltd.	HFO	183,082,606	3,277,361,237	17.90	399,645,848	4,423,600,684	11.07
Acron Infrastructure Services Ltd (Julda)	HFO	364,846,890	4,800,413,856	13.16	590,667,150	5,710,921,035	9.67
Amnura (Sinha Power Generation)	HFO	225,566,427	2,892,996,093	12.83	273,149,816	3,306,079,991	12.10
Power Pac Mutiara Keranigonj	HFO	156,838,536	3,028,503,067	19.31	337,035,960	4,309,275,573	12.79
Northern Power Solution Ltd.	HFO	155,675,824	2,220,198,709	14.26	243,986,033	3,084,361,483	12.64
<b>Total Rental &amp; Quick Rental (HFO)</b>		<b>2,270,440,616</b>	<b>33,692,097,291</b>	<b>14.84</b>	<b>3,554,175,647</b>	<b>39,819,813,526</b>	<b>11.20</b>
Aggreko International Projects Ltd. (40MW)	HSD	-	-	-	-	-	-
Aggreko International Projects Ltd. (55MW)	HSD	10,925,440	256,434,535	23.47	99,348,940	2,348,634,567	23.64
R Z Power Ltd.	HSD	-	-	-	-	-	-
DPA Power Gen. Int. Ltd	HSD	52,152,264	1,238,985,404	23.76	109,116,124	2,846,114,570	26.08
Quantum Power 100 MW Bheramara	HSD	-	-	-	-	-	-
Desh Energy - Siddhirganj 100 MW	HSD	51,218,760	1,036,977,978	20.25	126,478,464	4,003,787,974	31.66
<b>Total Rental &amp; Quick Rental (HSD)</b>		<b>114,296,464</b>	<b>2,532,397,917</b>	<b>22.16</b>	<b>334,943,528</b>	<b>9,198,537,112</b>	<b>27.46</b>
<b>Total Rental &amp; Quick Rental</b>		<b>5,965,843,660</b>	<b>50,136,234,417</b>	<b>8.40</b>	<b>7,160,488,072</b>	<b>62,817,273,381</b>	<b>8.77</b>



A meeting chaired by Dr. Ahmad Kaikaus, Sr. Secretary, Power Division on implementation of development projects of power sector held in Bidyut Bhaban.



A meeting chaired by Engr. Khaled Mahmood, Chairman, BPDB on progress of development projects under BPDB held in Bidyut Bhaban.



## GENERATION COST (BPDB'S OWN POWER PLANT) FOR THE YEAR 2018-2019

Sl. No.	Generating Plant under Power Station	Capacity	Plant Factor	Net Generation (kWh)	Variable Cost				Fixed Cost		Total Generation Cost (Tk.)	Gen. Cost Tk/kWh
					Fuel Cost Tk	Fuel cost Tk/kWh	Variable O & M (Tk.)	Variable O & M Tk/kWh	Total Fixed Cost (Tk.)	Fixed Cost Tk/kWh		
1	2	3	4	5	6	7=(6/5)	8	9=8/5	10	11=10/5	12=6+8+10	13=12/5
1	KARNAFULI HYDRO POWER STATION	230	36%	724,648,693	-	-	196,825,543	0.27	985,594,637	1.36	1,182,420,180	1.63
	<b>Total Water</b>	<b>230</b>	<b>36%</b>	<b>724,648,693</b>	-	-	<b>196,825,543</b>	<b>0.27</b>	<b>985,594,637</b>	<b>1.36</b>	<b>1,182,420,180</b>	<b>1.63</b>
2	WIND BASE POWER STATION, KUTUBDIA & HATIYA	-	-	139,669	-	-	99,941	0.72	11,336,494	81.17	11,436,435	81.88
	<b>Total Wind</b>	-	-	<b>139,669</b>	-	-	<b>99,941</b>	<b>0.72</b>	<b>11,336,494</b>	<b>81.17</b>	<b>11,436,435</b>	<b>81.88</b>
3	7.4 MW SOLAR PV POWER PLANT AT KAPTAI	7.40	2%	1,582,596	-	-	-	-	24,140,903	15.25	24,140,903	15.25
	<b>Total Solar</b>	<b>7.40</b>	<b>2%</b>	<b>1,582,596</b>	-	-	-	-	<b>24,140,903</b>	<b>15.25</b>	<b>24,140,903</b>	<b>15.25</b>
4	BAGHABARI POWER STATION	171	15%	226,346,900	261,945,517	1.16	114,198,191	0.50	493,856,565	2.18	870,000,273	3.84
5	GHORASHAL POWER STATION	740	29%	1,848,987,549	2,183,945,071	1.18	88,169,960	0.05	3,092,460,073	1.67	5,364,575,104	2.90
6	GHORASHAL POWER STATION	365	68%	2,161,510,675	1,553,174,472	0.72	103,072,793	0.05	3,406,112,707	1.58	5,062,359,972	2.34
7	CHITTAGONG POWER STATION, RAOZAN	420	28%	1,019,911,160	1,174,456,092	1.15	67,290,960	0.07	1,509,308,073	1.48	2,751,055,125	2.70
8	SHIKALBAHA POWER STATION (Duel Fuel)	150	34%	441,494,699	441,870,269	1.00	138,372,094	0.31	622,689,469	1.41	1,202,931,832	2.72
9	KUMERGOAN GT POWER SYLHET	20	37%	64,783,198	81,826,920	1.26	6,352,604	0.10	70,099,667	1.08	158,279,191	2.44
10	SYLHET 150 MG PEAKING POWER PLANT	150	54%	703,842,162	811,736,539	1.15	132,001,180	0.19	755,171,989	1.07	1,698,909,707	2.41
11	FENCHUGANJ 2x90 MW CCPP (1st & 2nd unit)	180	55%	873,078,543	994,015,389	1.14	376,647,655	0.43	1,200,981,233	1.38	2,571,644,277	2.95
12	SHAHJIBAZAR POWER STATION	60	91%	479,631,109	560,437,561	1.17	100,502,066	0.21	412,608,952	0.86	1,073,548,579	2.24
13	TONGI POWER STATION	109	2%	21,535,655	37,239,197	1.73	16,565,854	0.77	293,463,009	13.63	347,268,059	16.13
14	SIDDIRGANJ POWER STATION	210	3%	62,665,296	78,572,894	1.25	79,270,557	1.26	931,402,035	14.86	1,089,245,487	17.38
15	CHANDPUR CC POWER PLANT	163	48%	681,615,675	814,716,246	1.20	73,911,668	0.11	1,002,163,223	1.47	1,890,791,138	2.77
16	BHOLA 225 MW CCPP	195	76%	1,294,087,847	981,140,079	0.76	177,703,435	0.14	1,774,637,189	1.37	2,933,480,703	2.27
17	SHAHJIBAZAR 330 CCPP	330	61%	1,755,183,626	1,408,696,084	0.80	23,668,236	0.01	2,123,619,392	1.21	3,555,983,712	2.03
18	BIBIYANA-3 400 MW	218	20%	385,618,052	231,905,615	0.60	553,357	0.00	120,950,154	0.31	353,409,126	0.92
19	SHIKALBAHA 225 MW Shamipur (Duel Fuel)	225	50%	991,199,467	652,721,445	0.66	6,031,404	0.01	862,960,015	0.87	1,521,712,864	1.54
20	SBU Haripur	40	14%	50,392,094	-	-	1,774,291	0.04	231,907,911	4.60	233,682,202	4.64
	<b>Total Gas</b>	<b>3,746</b>	<b>40%</b>	<b>13,061,883,707</b>	<b>12,268,399,392</b>	<b>0.94</b>	<b>1,506,086,307</b>	<b>0.12</b>	<b>18,904,391,654</b>	<b>1.45</b>	<b>32,678,877,353</b>	<b>2.50</b>
21	BARAPUKURIA POWER STATION	220	5%	103,430,490	540,564,685	5.23	23,807,646	0.23	888,309,643	8.59	1,452,681,974	14.05
22	BARAPUKURIA POWER STATION	274	47%	1,126,072,607	5,885,257,664	5.23	259,199,569	0.23	2,542,688,177	2.26	8,687,145,409	7.71
	<b>Total Coal</b>	<b>494</b>	<b>28%</b>	<b>1,229,503,097</b>	<b>6,425,822,348</b>	<b>5.23</b>	<b>283,007,215</b>	<b>0.23</b>	<b>3,430,997,820</b>	<b>2.79</b>	<b>10,139,827,384</b>	<b>8.25</b>
23	KHULNA POWER STATION	-	-	(799,257)	866,699,511	-	6,659,589	(8.33)	752,528,981	(94.51)	1,625,888,081	-
24	BAGHABARI 50 PEAKING POWER PLANT	50	22%	94,444,904	1,011,131,969	10.71	41,616,456	0.44	444,540,195	4.71	1,497,288,620	15.85
25	BERA PEACKING POWER PLANT	71	9%	58,261,147	764,603,554	13.12	30,109,887	0.52	407,155,618	6.99	1,201,869,059	20.63
26	HATHAZARI PEACKING POWER PLANT	100	16%	141,539,720	1,476,883,894	10.43	55,619,840	0.39	831,710,455	5.88	2,364,214,188	16.70
27	DOHAZARI PEACKING POWER PLANT	100	19%	163,844,400	1,522,115,924	9.29	73,945,069	0.45	779,508,422	4.76	2,375,569,414	14.50
28	FARIDPUR PEACKING POWER PLANT	50	20%	85,560,960	974,383,320	11.39	51,893,498	0.61	305,376,749	3.57	1,331,653,567	15.56
29	GOPALGANJ PEACKING POWER PLANT	100	14%	125,105,583	1,509,757,887	12.07	75,467,154	0.60	684,348,610	5.47	2,269,573,651	18.14
30	DAUDKANDI PEACKING POWER PLANT	50	8%	33,057,600	380,128,805	11.50	23,172,812	0.70	673,283,096	20.37	1,076,584,712	32.57
31	SHANTAHAR 50MW POWER PLANT	50	19%	82,904,557	894,502,953	10.79	25,279,411	0.30	401,952,557	4.85	1,321,734,921	15.94
32	KATAKHALI 50MW POWER PLANT	50	16%	70,058,308	780,088,936	11.13	20,241,934	0.29	394,316,119	5.63	1,194,646,990	17.05
33	CHAPAINOABGANJ PEACKING PP 100 MW AMNURA	100	34%	296,021,520	2,978,371,537	10.06	4,970,880	0.02	724,085,196	2.45	3,707,427,613	12.52
	<b>Sub Total HFO</b>	<b>721</b>	<b>18%</b>	<b>1,149,999,442</b>	<b>13,158,668,289</b>	<b>11.44</b>	<b>408,976,529</b>	<b>0.36</b>	<b>6,398,805,998</b>	<b>5.56</b>	<b>19,966,450,816</b>	<b>17.36</b>
34	BHERAMARA POWER STATION	60	3%	17,437,736	494,373,774	28.35	4,427,434	0.25	326,534,753	18.73	825,335,962	47.33
35	BARISHAL GAS TURBINE POWER STATION	40	3%	9,013,927	340,962,246	37.83	16,041,075	1.78	157,765,477	17.50	514,768,798	57.11
36	BARISHAL DIESEL POWER STATION	-	-	(3,000)	-	-	-	-	32,505,484	-	32,505,484	-
37	BHOLA DIESEL POWER STATION	-	-	-	16,616,962	-	71,902,589	-	17,595,378	-	106,114,930	-
38	SAYEDPUR GAS TURBINE POWER STATION	20	21%	36,714,410	1,036,059,266	28.22	11,275,379	0.31	112,975,038	3.08	1,160,309,683	31.60
39	RANGPUR GAS TURBINE POWER STATION	20	17%	29,936,071	1,000,443,052	33.42	36,722,975	1.23	171,743,488	5.74	1,208,909,515	40.38
40	SAYEDPUR DIESEL GENERATOR	-	-	-	-	-	-	-	-	-	-	-
41	THAKURGOAN DIESEL GENERATOR	-	-	-	-	-	-	-	-	-	-	-
42	KUTUBDIA DIESEL GENERATOR	2	4%	482,430	8,457,177	17.53	255,536	0.53	31,962,182	66.25	40,674,895	84.31
43	SANDEEP DIESEL GENERATOR	3	3%	785,475	12,640,679	16.09	4,810,878	6.12	10,132,291	12.90	27,583,848	35.12
44	HATIYA DIESEL GENERATOR	2	20%	3,871,519	75,993,198	19.63	1,620,840	0.42	14,560,614	3.76	92,174,652	23.81
45	SHIKALBAHA POWER STATION (Duel Fuel)	-	12%	153,101,360	3,541,976,517	23.13	67,474,545	0.44	423,688,549	2.77	4,033,139,612	26.34
46	SHIKALBAHA 225 MW Shamipur (Duel Fuel)	-	15%	297,882,905	4,113,129,902	13.81	1,812,604	0.01	232,829,624	0.78	4,347,772,131	14.60
47	DGD, Dhaka	-	-	-	-	-	36,934,063	-	62,623,356	-	99,557,419	-
	<b>Sub Total Diesel</b>	<b>146</b>	<b>43%</b>	<b>549,222,833</b>	<b>10,640,652,774</b>	<b>19.37</b>	<b>253,277,920</b>	<b>0.46</b>	<b>1,594,916,235</b>	<b>2.90</b>	<b>12,488,846,928</b>	<b>22.74</b>
	<b>Grand Total</b>	<b>5,345</b>	<b>36%</b>	<b>16,716,980,037</b>	<b>42,493,542,803</b>	<b>2.54</b>	<b>2,648,173,513</b>	<b>0.16</b>	<b>31,338,847,248</b>	<b>1.87</b>	<b>76,480,563,565</b>	<b>4.58</b>



Placing of floral wreath at 32, Dhanmondi at the portrait of Bangabandhu Sheikh Mujibur Rahman on his 43rd death anniversary.



Placing of floral wreath at Shahid Minar on International Mother Language Day and National Martyrs Day.



Placing of floral wreath at National Mausoleum at Savar on 16th December.



A seminar on 'Role of Women in Power Development' held in Mukti Hall, Bidyut Bhaban.



A workshop on firefighting participated by heads of offices of BPDB held in Bidyut Bhaban.



Triumph of BPDB Volleyball team after winning the Victory Day Volleyball competition-2018. Member Administration, Mr. Md. Zaharul Haque is seen with the players.

# PRIMARY GRID SYSTEM OF BANGLADESH

AS ON JUNE 2019

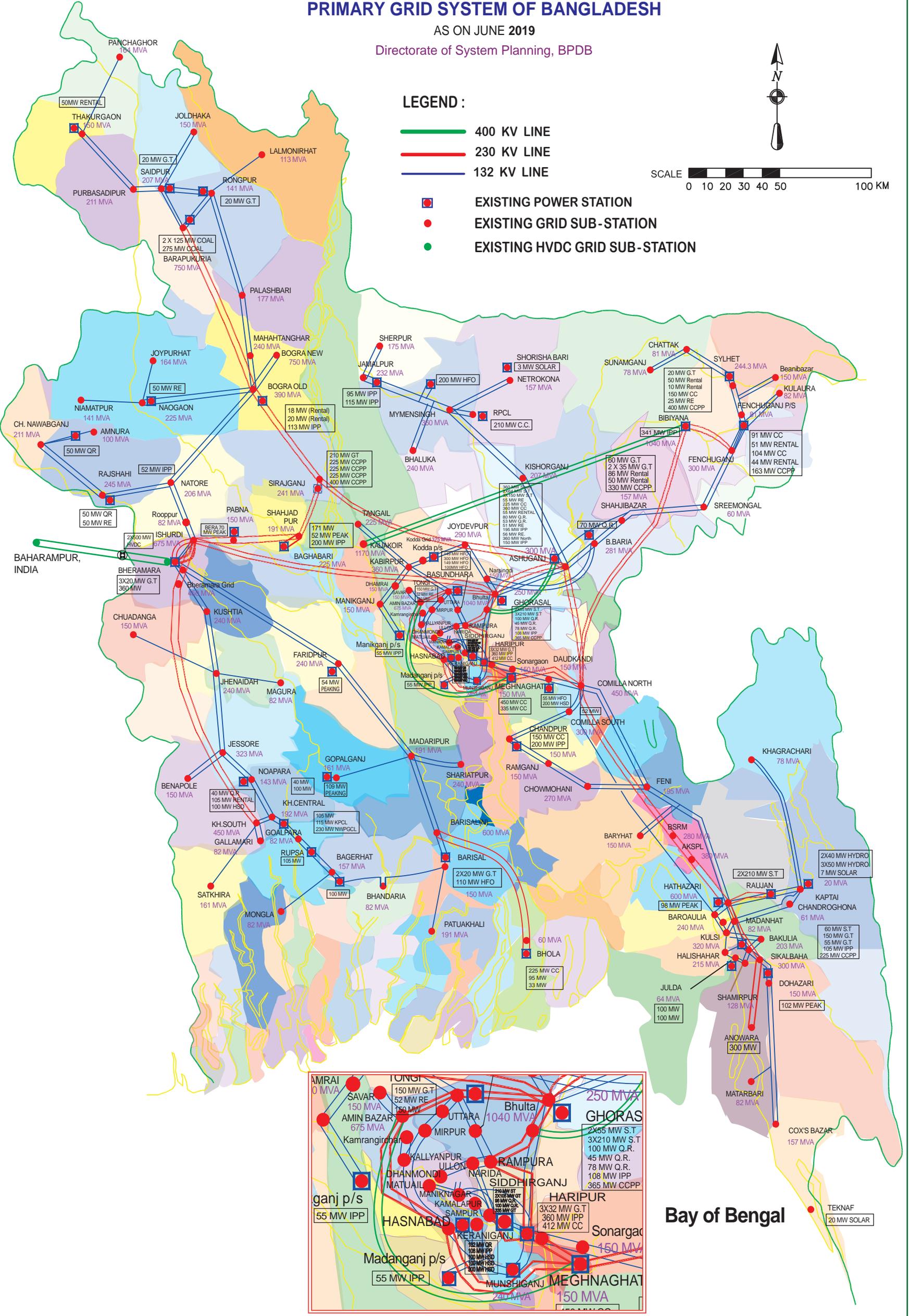
Directorate of System Planning, BPDB

## LEGEND :

- 400 KV LINE
- 230 KV LINE
- 132 KV LINE

- EXISTING POWER STATION
- EXISTING GRID SUB-STATION
- EXISTING HVDC GRID SUB-STATION

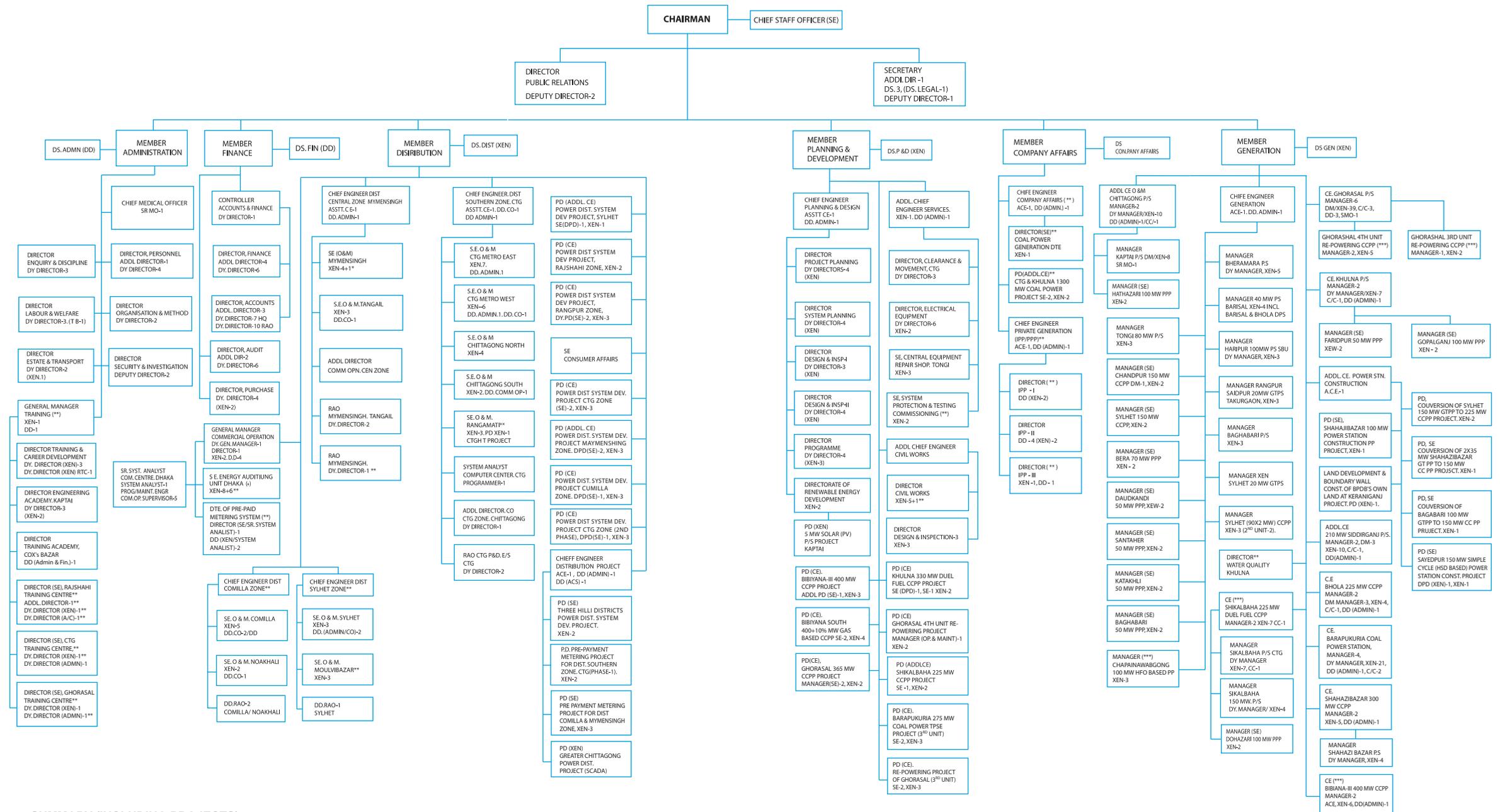
SCALE 0 10 20 30 40 50 100 KM



# ORGANISATION CHART OF BANGLADESH POWER DEVELOPMENT BOARD

(SHOWING POSITION DOWN TO XEN / DD AND EQUIVALENT)

As on June, 2019



## SUMMARY (INCLUDING PROJECTS)

CHAIRMAN-1, MEMBER-6, CHIEF ENGINEER-20+5\*\*, G.M/ADDL. CHIEF ENGINEER-11+1\*\*  
 CONTROLLER-1, CMO-1, MANAGER/DIRECTOR (TECH)/SE/DGM-114+13\*\*, SR.SYSTEAM ANALYST-1+1\*\*,  
 SECRETARY/DIRECTOR (NON TECH)-13+2\*\*, ADDL.DIRECTOR-13+1\*\*,  
 XEN/DD/DS/DM-339+31\*\* DD (NON TECH)-114+8\*\*, SYSTEM ANALYST-2+1\*\*  
 PRO/M.E/COMPUTER OPERATION SUPERVISOR-6, CC-10, SMO-3

TOTAL SANCTIONED STRENGTH-20,160

(\*) THERE IS NO APPROVAL OF THE GOVERNMENT AFTER 30 JUNE 1991 FOR THE OFFICES UNDER ENERGY AUDITING UNIT.

(\*\*) THERE IS NO APPROVAL AS YET FROM THE GOVERNMENT.

(\*\*\*) SET-UP ISSUED FROM APPROVED PP PROVISION AS PER REQUIREMENT THE MANPOWER OF ABOVE STARS (\*, \*\*, \*\*\*) ARE NOT INCLUDING IN THE SET-UP STRENGTH.

**Prepared by the Directorates of System Planning, Programme, Accounts and O & M**  
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