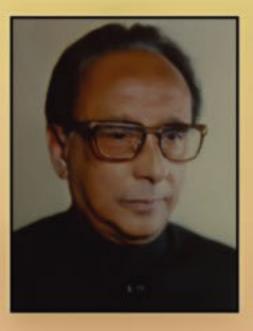


Special Supplement on Inauguration of Foundation work of Chandpur 150 Megawatt Power Plant

25 April 2010



25 Aplil 2010.



People's Republic of Bangladesh

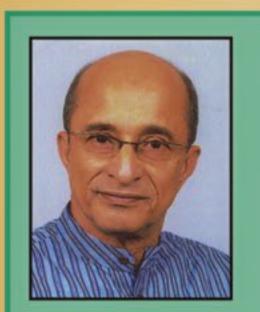
Message Dhaka I am pleased to learn that the foundation laying ceremony of the Chandpur 150MW Combined Cycle Power Plant is being held on

The necessity of electricity and power is of paramount importance in our everyday life as well as attaining overall development of the country. The initiative of establishing power plant being taken by the Government for providing undisrupted supply of electricity across the country is commendable. It is very urgent to install more power plants in the country to meet the growing demand of electricity. The entire country comes under electricity network is our expectation. I believe the Chandpur 150MW Combined Cycle Power Plant would play a significant role in fulfilling the electricity demand of the people.

I wish the solemn initiative of establishing Chandpur 150MW Combined Cycle Power plant all success.

Khoda Hafez, May Bangladesh Live Forever.







Dr. Towfiq-E-Elahi Chowdhury Bir Bikram Adviser to the Prime Minister

Message

Foundation laying of the Chandpur 150 Megawatt Combined Cycle Power Plant is an auspicious beginning in the critical point of power crisis of the country.

In order to cater demand of electricity, meanwhile, short-mid-and long term steps have been taken. Besides, plans have been undertaken to bring cent percent populations within the ambit of power supply and to attain self-reliance in the light of the 'Vision 2021'. On the way of unabated power generation there exists inadequate energy. To overcome this crisis the government has undertaken different initiatives for gas exploration including production and use of renewable energy. Besides, various steps have been taken to save power and energy. In all these initiatives, cooperation from all is expected.

call upon all concerned to work with utmost sincerity in the implementation of the Chandpur 150 Megawatt Combined Cycle Power Plant in order to attain all out development and coveted national target. I hope through a combined effort the power plant will be able to generate electricity as per the schedule.

Dr. Towfiq-E-Elahi Chowdhury, Bir Bikram





Md. Abul Kalam Azad Secretary, Power Division Power, Energy and Mineral Resources Ministry The Government of the People's Republic of Bangladesh

## Message

Generation, transmission and marketing of electricity for social and economic development of the country is of paramount importance. In view of on-growing demand of electricity various short-mid- and longterm, inclusive of fast-track emergent plans have been taken up and work is going on accordingly. Besides, to combat energy crisis, meanwhile, the government has undertaken some plans for use of alternative energy. Parallel to it steps have also been taken to increase efficiency of cell officers and staffs engaged in the power sector.

The government has fixed target to bring all segment of people within the coverage of the power supply as per the "Vision 2021." To materialize the target Power Division has been working relentlessly. Despite deterrence and existing power crisis the foundation laying of the Chandpur 150 Megawatt Combined Cycle Power Plant will help Government to take one step forward in actualizing that target.

I hope, the implementation of the establishment of the Chandpur 150 Megawatt Combined Cycle Power Plant will be completed in due time and it will set an example to be followed by the future power plant establishments in the country.



#### **Relevant Issues Pertaining to Power Sector Development**

ASM Alamgir Kabir Chairman, Bangaldesh Power Development Board

Power is an essential component in the process of socio-economic development and ameliorating the standard of life of the people. In order to ensure dependable power supply as per the directive of the government commensurate with the on-growing demand, Power Division and organizations have been working relentlessly. The Power Development Board is vested with the responsibility of power generation, purchase, coordination among the organizations of the power sector along with distribution, and to undertake plans and implement those according to the direction of the government.

At the time of assuming power of the present government in January 2009 the installed capacity was about 5450 megawatt. But because of decrease in generation capacity and gas crisis the average actual generation was 3500 megawatt approximately.

Within one and a quarter year of the present government with the installation of new power plants nearly 700 megawatt electricity has been added to the national grid. As a result the installed capacity stood at 6000 megawatt approximately.

Presently power generation capacity is 5376 megawatt while demand is about 5800 megawatt. However, dependable generation capacity fluctuates in between 3900 to 4300 megawatt.

Nevertheless, it cannot be denied that compared to the demand of electricity the generation capacity is inadequate.

To overcome this deficit and to attain self-reliance in power, government has undertaken short-, mid-, and long-term plans. Sustained efforts are going on through management and electricity saving programms for addressing power shortage. To keep load-shedding within tolerable level initiative has been undertaken for speedy generation of 500 to 1000 megawatt on rental basis. Details of the proposed installed power plants are given below:

#### Projects Completion Year 2010 (April - December, 2010)

Name of the Power Plant	Capacity (MW)	Type of Fuel	Expected Commissioning Date	Present Status
Public Sector				
Sikalbaha 150 MW Peaking Plant (BPDB)	150	Gas/Oil	May, 2010	The plant will start in end of April 2010
Siddhirganj 2X120 MW Peaking Plant (EGCB) EPC: BHEL	120	Gas	May, 2010 (2 <sup>nd</sup> unit)	unit -1 in operation from 20 Nov'2009, unit-2 is under construction
Fenchuganj 90 MW CCPP (BPDB)	90	Gas	July, 2010	Under construction
Private Sector				
Ashuganj – 3 yrs Rental	62	Gas	April, 2010	Under construction
Fenchuganj – 3 Yrs rental	50	Gas	June, 2010	Under construction
Bogra -3 yrs rental	20	Gas	0.000	Under construction
Bheramara , New Initiative rental	100	Diesel	June, 2010	Contract signed. Under construction
Thakurgaon, New Initiative rental	50	Diesel	June, 2010	Contract signed Under construction
Noapara, Jessore, New Initiative rental	100	HFO	November, 2010	Contract signed Under construction
Barisal, New Initiative rental	50	HFO	December, 2010	Contract Signed. Under construction
Total (under construction)	792			

#### **Projects Completion by Year 2011**

Description	Capacity (MW)	Ownership	Fuel	Expected Commissioning Date	Remarks
PUBLIC SECTOR					ACM BAS ALCO NO
Faridpur ; Peaking	50	PDB	HFO	July, 2011	NOA issued
Dohazari, Chittagong ; Peaking PP	100	PDB	HFO	July, 2011	NOA issued.
Baghabari ; Peaking PP	50	PDB	HFO	July, 2011	NOA issued.
Hathazari Peaking	100	PDB	HFO	July, 2011	NOA issued
Doudkandi, Comilla ; Peaking	50	PDB	HFO	July, 2011	NOA issued
Katakhali, Rajshahi ; Peaking	50	PDB	HFO	September,2011	NOA issued
Bera, Pabna ; Peaking PP	70	PDB	HFO	September,2011	NOA issued
Gopalganj ; Peaking PP	100	PDB	HFO	September,2011	NOA issued
Santahar, Nawgaon; Peaking	50	PDB	HFO	September,2011	NOA issued
Sylhet 150 MW CCPP (under Construction)	150	вров	Gas	December, 2011	Contract signed, Under construction.
Chandpur 150 MW CC (under Construction)	150	BPDB	Gas / Oil	December, 2011	Contract signed. Under construction.
PRIVATE SECTOR		10 00	4	A. A.	X
Total	920				

## **Projects Completion by Year 2012**

Description	(MW)	Ownership	Fuel	Commissioning Date	Remarks
PUBLIC SECTOR			·	A SANCTON ASSOCIATION ASSOCIAT	
Ghorasal ; Peaking	200-300	PDB	Gas / Diesel	June, 2012	Tender invited
Khulna 150 MW	150	(NWPGC)	Gas/Oil	June, 2012	Financial proposal evaluation going on.
Sirajganj 150 MW GT	150	(NWPGC)	Gas/Oil	June, 2012	Bid evaluation under Process
Kaptai Solar	5	BPDB	Solar	June 2012	PQ doc. preparation Under process
PRIVATE SECTOR		in the second			
Katakhali Peaking Plant , Rajshahi	50	IPP (BPDB)	HFO	April, 2012	PQ invited
Syedpur Peaking Plant	100	IPP (BPDB)	HFO	April, 2012	PQ invited
Jamalpur Peaking	100	IPP (BPDB)	HFO	May, 2012	PQ invited.
Chapai Nababganj	100	IPP (BPDB)	HFO	May, 2012	PQ invited
Comilia Peaking	50	IPP (BPDB)	Gas/HFO	May, 2012	PQ invited.
Khulna Peaking	100	IPP (BPDB)	HFO	May, 2012	PQ invited
Wind	100	IPP (BPDB)	Wind	June, 2012	PQ invited
Solar	9	IPP (BPDB)	Solar	January, 2012	PQ invited
Tangail 20 MW	20	IPP (REB)	HFO	June 2012	Bid preparation under Process.
Chandpur 15 MW	15	IPP (REB)	HFO	June 2012	Bid preparation under Process.
Bhola 150-225 MW CCPP (2 <sup>nd</sup> unit):SC GT Unit	100	IPP	Gas	June, 2012	PQ invited
Keraniganj 150- 225 MW CCPP: SC GT Unit	100	IPP	Gas/HFO	July, 2012	PQ invited
Madanganj 150- 225 MW CCPP: SC GT Unit	100	IPP	Gas/HFO	July, 2012	PQ invited
Biblana 300-450 MW CCPP (1 <sup>st</sup> Unit): SC GT Unit	200	IPP	Gas	August, 2012	RFP to be issued soon.
Bibiana 300-450 MW CCPP (2 <sup>nd</sup> Unit): SC GT Unit	200	IPP	Gas	October, 2012	PQ invited
Meghnaghat 300- 450 MW CCPP (2 <sup>nd</sup> Unit) Duel Fuel: SC GT Unit	200	IPP	Gas/HFO	November, 2012	PQ invited
Mixed					MARKET NO.
Mymensing Pk	150	PDB & RPCL	Gas/HFO	June 2012	Bid preparation under Process
Gazipur	50	RPCL	Gas/HFO	June 2012	Bid preparation under Process
RAUJAN	20	RPCL	Gas/HFO	June 2012	Bid preparation under Process
					1110000

## Projects Completion by Year 2013

Description	(MVV)	Ownership	Puel	Commissioning	Remarks
PUBLIC SECTOR					
Siddirganj 2x150 GT	300	(EGCB)	Con	June, 2013	<ul> <li>Evaluation report forwarded to WB for concurrence.</li> </ul>
Bhola 150 MW	150	(BPDB)	Ges	June, 2013	Feasibility study going on
Barapukuria 125 MW Coal (3rd Unit)	126	(BPDB)	Coal	June, 2013	DPP is under preparation.
Ashugani 150 CCPP	150	APSCL	Gas	June, 2013	Bid preparation under Process
PRIVATE SECTOR	2				
Savar Peaking Plant, Dhaka	100	IPP	Gas/HFO	January, 2013	PQ documents under preparation.
Peaking Plant, Gazipur	100	linto	Gas/HFO	January, 2013	PQ documents under preparation.
Bibiana 300-450 MW CCPP (1 <sup>st</sup> Unit): ST Unit	100	IPP	Gas	August, 2013	PQ Invited
Serajganj 300- 450 MW CCPP ( Powercell)	300	IPP	Gas	June, 2013	Procurement process will start soon (IPP)
Bhola 150-225 MW CCPP (2 <sup>nd</sup> unit): ST Unit	50	IPP	Gas	June, 2013	PQ invited
Keraniganj 150- 225 MW CCPP : ST Unit	50	IPP	Gas/HFO	July, 2013	PQ invited
Madanganj 150-225 MW CCPP :ST Unit	50	IPP	Gas/HFO	July, 2013	PQ invited
Bibiana 300-450 MW CCPP (2 <sup>nd</sup> Unit): ST Unit	100	IPP	Gas	October, 2013	PQ invited
Meghnaghat 300-450 MW CCPP (2 <sup>nd</sup> Unit) Duel Fuel: ST Unit	100	IPP	Gas/HFO	November, 2013	PQ invited
Total	1675				

## **Projects Completion by Year 2014**

Description	Capacity (MW)	Ownership	Fuel	Expected Commissioning Date	Remarks
PUBLIC SECTOR				A STATE OF	Proposition of the second second second second
Harlpur 360 MW	360	(EGCB)	Gas	June, 2014	PQ proposal under evaluation.
Bheramara 360 MW CCPP	360	(NWPGC)	Gas	June, 2014	EOI invited for consultancy services.
Shiddirgonj 450 MW CCPP	450	(EGCB)	Gas	June, 2014	Bid preparation under Process
PRIVAE SECTOR	8			*	
Total	1170				

# **Projects Completion by Year 2015**

Description	Capacity (MW)	Ownership	Fuel	Expected Commissioning Date	Remarks
Chittagong	1300	PPP (Joint Vent.) / IPP	Coal	March, 2015	Feasibility study going on
Khulna South	1300	PPP (Joint Vent.) / IPP	Coal	March, 2015	Feasibility study going on
Total	2600				



**Prime Minister** The Government of the People's Republic of Bangladesh



I am very glad to know that the work of establishment of the Chandpur 150 Megawatt Combined Cycle Power Plant is going to start.

On completion this power plant will play a significant role in catering the on-growing demand of electricity of the country.

No sooner than assuring responsibility the present government has taken initiative to recast this sector along with boosting power generation. Under this plan within 2015 more 9426 megawatt electricity will be added to the national grid.

After taking responsibility, meanwhile, about 700 megawatt electricity has been added to the national grid and emergent arrangements have been made to establish rental-basis power-plants capable of generating more 1000 megawatt within the shortest possible time.

We have given importance on the increased use of coal as fuel side by side with gas in power generation and also electricity generation based on renewable energy.

I hope, the under implementation Chandpur 150 Megawatt Combined Cycle Power Plant-generated electricity will help accelerate the pace of socio- economic development of the country.

> Joy Bangla, Joy Bangabandhu Long Live Bangladesh







Mohammad Enamul Haque, M, P **State Minister** Power, Energy and Mineral Resources Ministry The Government of the People's Republic of Bangladesh.

## Message

Foundation laying of the Chandpur 150 Megawatt Combined Cycle Power Plant is an optimistic beginning as a part of different steps of the Government in view of addressing existing power scarcity. I hope, within the next two years power transmission from this plant will be possible to the national grid.

The government is firmly determined to develop power and energy sector. Under direction and direct supervision of Hon'ble Prime Minister Sheikh Hasina, government has been working relentlessly to overcome the present deficit and cater future demand for which work-plans of different terms have been taken up and implementation of these work plan are going on.

Efforts are underway for ensuring different kinds of fuel in power generation, to increase use of renewable energy side by side with the traditional ones to save power and energy.

I am confident, through the implementation of the Chandpur 150 Megawatt Combined Cycle Power Plant along with other new power plant projects we shall be able to overcome power crisis and fulfill the aspirations of the people.

> Joy Bangla, Joy Bangabandhu Long Live Bangladesh

Mohammad Enamul Haque, M, P.

#### **Introduction to Chandpur 150 Megawatt Combined Cycle Power Generation Plant**

Project Title: Chandpur 150 Megawatt

Combined Cycle Power Plant Establishment and Related Transmission System Installation Project.

Implementing Organization: Bangladesh Power

Development Board (BPDB)

Initiating Ministry: Power Division, Ministry of Power, Energy and Meneral Resources.

Project Site: Balur Mat, Chandpur (Near to 132 KV Grid Sub-Station)

Area of the Project: 10 acres approximately Type of Unit: Combined Cycle (107 Megawatt Gas Turbine + 56 Megawatt Steam Turbine)

Total Generation Capacity: 163.115 Megawatt

Fuel: Natural Gas

Project Agreement Signing Date: 8 February 2010, 26 Magh 1416 Name of the Turnkey Contractor: China, Chengda Engineering Co. Ltd.

## **Project Establishment Cost**

Total Project Cost: Tk 1200 crore (Local Tk 298 crore, Forex: 902 crore)

Cost of Turnkey Contract: Tk 1006 crore Local: Tk 104 crore, Forex: 902 crore.

Funding by: GOB Project Implementation Time: 650 days.

Period of Starting Generation: December 2011

