



3. Cost of the Scheme/Project : Rs.15207 lakh  
Date of approval : Aug.,2006

4. Year of Commencement, 2007-08  
Target date of completion 2011-12

**3. Name of the Scheme 1500 MW Coal based power project - Jhajjar - NIL**

1. Aims and Objectives of the Scheme

Govt. of NCT of Delhi has recently signed a MOU with Haryana Govt. and NTPC Limited for setting up of a 1500 MW Coal based power project in Distt. Jhajjar of Haryana. This project will be executed by M/s NTPC Limited and the power generated will be shared equally by Delhi and Haryana States.

2. Cost of the Scheme / Project , Major components and date of approval

Cost of the project (Rs. 8294 Cr.) will be shared in following manner:

Delhi 25% (Rs. 2073.50 Cr.), Haryana 25% and NTPC Ltd. 50%

30% of Rs.2073.50 crore i.e. Rs.622 crore will be required from the Plan Fund as equity.

4. Year of Commencement 2007-08

Target date of completion All efforts will be made to commission the first unit of this project before commonwealth games 2010. Remaining two units will be commissioned after a gap of six month each

In Annual Plan 2008-09, no plan provision is approved for this project. However, balance equity, if any, will be paid in the next financial year.

**4. Name of the Scheme Pragati Phase III - 1500 MW Gas based Power Project at Bawana (Rs.79900 lakh)**

1. Aims and Objectives of the Scheme

To augment Delhi's own core generation capacity and increase the production of electricity in order to solve the power problem a 900 MW (nominal capacity) Combined Cycle Gas based power station, named Pragati Phase –III Project is proposed to be set up at Bawana.

2. Cost of the Scheme / Project, Major components Rs.5200 crores. However 30% amount i.e. Rs.1559 crores as equity will be required from the plan funds.



Delhi has certain problems over the years causing increase in the power demand. These problems include drastic increase in population (app. 1.5 Crores), unplanned & haphazard growth of city, large no. of industrial units in non-conforming areas. The peak demand in Delhi is increasing exponentially. The maximum demand was 3097 MW during 2002-2003 has already touched 4030 MW in 2007-08. Due to oncoming commonwealth game to be held in Delhi in 2010 the load in Delhi is likely to grow to about 7000 MW by 2011-12,

The following steps are being taken by DTL to meet the load demand of Delhi for providing uninterrupted and quality power:-

- i. 400KV ring has been established around Delhi which will bring bulk of power to Delhi from Centrally sponsored schemes that are coming up in the Northern Region.
- ii. A number of new project have been identified based upon the various studies conducted by DTL in consultation with Central Electricity Authority and action is being taken for their implementation. The details of these projects are given in the subsequent chapters.

#### **400KV Works:**

##### **A. 400 KV S/Stns**

Transformation capacity approved under 10<sup>th</sup> plan was 1575 MVA, out of which 945 MVA has achieved in first four years (2002-06) and 315 MVA is anticipated in 2006-07.

400KV S/Stn. Maharani Bagh 2x315MVA is under execution by PGCIL. DTL will have 8 nos. of 220 KV GIS bays. 400 KV Mundka S/Stn. (2 x 315 MVA), work could not start because land handed over by DDA on 23.03.2006. NIT scheduled to be floated in December 2006.

##### **B. 400 KV Lines**

Transmission line proposed under 10<sup>th</sup> plan was 206 Ckt Km. , out of which 104.80 Ckt. Km has achieved in first four years (2002-06) and 104.80 Ckt. Km. is anticipated in 2006-2007. (About 100 Ckt. Km. of feed to Maharani Bagh being executed by M/s PGCIL)

LILO Bawana –Bamnauli at Mundka could not materialize because Land for Mundka S/Stn was handed over by DDA on 23.03.2006.

#### **220 KV Works:**

A. **220 KV S/Stn.** Transformation capacity proposed of 220 KV S/Stns. under 10<sup>th</sup> plan was 2300 MVA, out of which 1200 MVA has achieved in first four years (2002-06) and 820 MVA is anticipated in 2006-07. Some 220 KV Sub-stations in DTL during 10<sup>th</sup> Plan could not materialize due to litigation cases, non allotment of land, non clearance of schemes from DERC/CEA and other administrative problems. Requirement/Feasibility of these sub-stations during eleventh plan period has been examined and is being considered in 11<sup>th</sup> plan.

220 KV Geeta Colony (2 X 100 MVA) and Papankalan-II has already commissioned and Bawana DSIDC-I & Siri fort (Masjid Moth) are under construction. In addition, transformation capacity at Papankalan I, Rohini, Shalimar Bagh and Naraina 220 KV S/Stn. is in the process of augmentation.

**B. 220 KV Lines**

Transmission line proposed under 10<sup>th</sup> plan was 170 Ckt Km., out of which 53.646 Ckt. Km has achieved in first four years (2002-06) and 30.00 Ckt. Km. is anticipated in 2006-2007.

The following 220KV transmission Lines are already commissioned during 10<sup>th</sup> Five Year Plan.

1. LILO Mandola – PPG at South of Wazirabad
2. LILO South of Wazirabad – PPG at Geeta Colony
3. LILO IP – BTPS at Sarita Vihar
4. Bawana – Rohini
5. Bamnauli – Pappankalan – II
6. Mandola – Gopalpur
7. South of Wazirabad – Kashmiri Gate

**APPROACH TO ELEVENTH PLAN 2007-2012**

A 400 KV double circuit ring has been commissioned around Delhi to draw power from the Northern Grid and also to receive power from other sources as well. The T&D system for 220 KV and below would also be adequately strengthened. Steps are also being taken to reduce the T&D losses. It is expected that with these measures, it would be possible to reduce the T&D losses considerably.

Minimum two transformers would be provided at the new proposed S/Stn. In view of the increasing rate of growth of load demand in Delhi which is being higher than the average load growth rate in other parts of the region and also keeping in view the limited space available in Delhi for establishing S/Stns, DTL proposed 160 MVA capacity transformers in place of the conventional 100 MVA transformers. DTL proposed to establish GIS S/Stn. in place of conventional S/Stn. where suitable size of land are not available due to scarcity of land in Delhi.

**1. 400KV Works (Rs.7000.00 lakh)**

**A. Ongoing Works**

**Maharani Bagh S/St**the 8 Nos. of 220KV GIS bays are likely to be commissioned during 2006-07. However, some related balance work will be spill over to 11<sup>th</sup> FYP and S/Stn. will be completed by June 2008.

## **B. New Works**

### **1. Mundka S/Stn. (4x315MVA)**

Due to litigation case, the S/Stn. will be spill over to 11<sup>th</sup> FYP period and will be completed during 11<sup>th</sup> FYP. The land for S/Stn. has been handed over to DTL, Tender has been opened in June, 2007.

### **2. LILO Bawana to Bamnauli at Mundka (D/C)**

In order to give feed to 400 KV S/Stn. at Mundka. This scheme has been prepared. This project will be completed in 6 months from the date of award of contract.

### **3. Unforeseen civil capital work in different 400 KV S/Stn.**

#### **a. (400KV S/Stn.)**

##### **1. Maidan Garhi(2x315MVA)**

The new 400KV sub-station has been proposed in the area based upon the system studies recommendation of CEA. The land for sub-station is yet to be allotted by DDA and it is expected that sub-station in maidan Garhi will be commissioned during 11<sup>th</sup> FYP

##### **2. East of Loni Road (2x315MVA Pr. Tr.)**

The new 400KV S/Stn. has been proposed in the area based upon the recommendations of Standing Committee of CEA. The S/Stn. will be commissioned during 11<sup>th</sup> FYP

#### **b. 400KV Lines**

1. **Feed to Maidan Garhi** - The associated feeding line to new sub-station will laid from LILO of Bamnauli-Ballabgarh at Maidan Garhi. NIT shall be floated after land allotment for Maidan Garhi S/Stn.

2. **Feed to East of Loni Road** - The associated feeding line to new sub-station will be laid from LILO of Mandola – Dadri at East of Loni Road or direct feed from Mandola. NIT shall be floated after land allotment for East of Loni Road S/Stn.

### **2. 220KV Works(Rs.2000.00 lakh)**

#### **A. Ongoing works**

Following sub-stations and associated transmission line of 10<sup>th</sup> FYP will be completed during 11<sup>th</sup> FYP which could not be completed during 10<sup>th</sup> FYP due to (1) litigation case (2) non-availability land (3) Revision of DTL system network by CEA/non-clearance by DERC.

<b>220 KV Works</b>	
1	Masjid Moth
2.a	Aug. of 2x100 MVA 66/220 KV Power Tr. with 2x160 MVA 66/220 KV Power Tr. at GT/IP Ext.
2.b	Civil work for 2 nos. of 160 MVA Power Transformer at GT/IP Ext.
3.	ETC of 2x 66 KV O/G Feeder Bays with associated equipments at 220 KV S/Stn. Park Street for NDMC
4.	Balance work of 5 Nos.33 KV Bays at 220 KV S/Stn.Park Street
5.	2 nos. 66 KV feeder bays at Papankalan-1
6.	Maharani Bagh to Lodhi Road U/G cum O/H feeder
7.	LILO 220 KV Bawana- Narela D/C line at Bawana DSIDC-1
8.	D/C O/H Papankalan-1-Papankalan-II
9.	Direct O/H feed Gopalpur-Mandola
10.	Interlink Gopalpur & SOW O/H at Gopalpur side
11.	LILO D/C O/H Bawana-Nazafgarh at Kanjhawala
12.	220 KV D/C U/G cum O/H T/L Maharani Bagh-Sarita Vihar
13.	Dismantling of Old 220 KV SOW S/Stn-1 & ETC of 5 Nos. 66 KV bays at 220 KV S/Stn.SOW
14.	Balance work of C & R panel & shifting of control system from Old to New C & R panel etc. at Kanjhawala
15.	ETC of 5 nos.addl.66 KV feeder bays in 66 KV yard at SOW
16.	ETC of equipments in 2 nos. 220 KV bays at 220 KV S/Stn., Kanjhawala
17.	3 nos. 66 KV feeder Bays with automation in 66 KV yard at Park Street.
18.	2 No.66 KV feeder bays alongwith automation at 66 KV yard of Mehrauli
19.	Balance work of ETC of 220 KV equipments for 220 KV side of two nos. 160 MVA power transformer at GT Station.
20.	Provision for Unforeseen works for 400/220 KV Line & S/Stn.
21.	Unforeseen civil capital works in different 220 KV S/Stn.

## B. New Works

### a. 220KV Sub-Station

The following works of sub-station will be taken up during 11<sup>th</sup> FYP in addition to ongoing works.

1.a	Ridge Valley
1.b	Civil work for land filling & boundary wall at Ridge Valley
2.a	AIIMS (GIS)
2.b	Civil work for land filling & boundary wall at AIIMS(GIS)
3.a	Electric Lane (GIS)
3.b	Civil work for land filling & boundary wall at Electric Lane (GIS)
4.	ETC of 3rd 100 MVA Power Transformer at 220 KV S/Stn., Shalimar Bagh.
5.	ETC of 3rd 100 MVA Power Transformer along with allied equipment in 220 KV and Incomer of 66 KV bay at Vasant Kunj.
6.a	Wazirpur Indl. Area (GIS)
6.b	Civil work for land filling & boundary wall at Wazirpur Indl. Area (GIS)
7.	33 KV GIS at Gopal Pur, Okhla & Lodhi Road
8.	Maharani Bagh to Masjid Moth
9.	Maharani Bagh to AIIMS
10.	Maharani Bagh to Elec. Lane
11.	220/66 KV GIS S/Stn at IGI Airport
12.	5x33 KV bays at Naraina
13.	Ridge Valley- Naraina
14.	D/C U/G transmission link for LILO of 220 KV D/C O/H between Bamnauli & Mehrauli at IGI
15.	O/H cum U/G Maharani Bagh- Gazipur
16.	D/C U/G Ridge Valley to Trauma Center (AIIMS)
17.	Augmentation of existing two nos. 50 MVA 220/33 KV Transformer with 2x 100 MVA power Transformer at 220 KV Okhla S/Stn.
18.	Four nos. 220 KV feeder bays with automation in 220 KV yard at 220 KV Okhla S/Stn.

The problem area / obstacles which are coming up for delay in execution of work are (1)litigation cases (2) non-availability of land for sub-station and ROW problems (3) Due to revision of DTL system study network by CEA and delay in clearance of schemes by DERC.

**3. SLDC/SCADA system (Rs.100.00 lakh)**

SCADA System in DTL has been established under Unified Load Dispatch and Communication (ULDC) by Power Grid. The funds were arranged by the Power Grid by DTL portion and the same is required to be repaid in monthly installments over a period of 15 years. The system under the scheme was put in the Commercial Operation w.e.f. 01.08.2002. The bill raised by Power Grid for repayment of loan comprises of two parts viz State Sector ULDC and Central Sector ULDC charges which are Rs.54.88 lakh and Rs.90 lakh respectively per month. An outlay of Rs.100 lakh is approved for Annual Plan 2008-09.

**4. Computerization (Rs.100 .00 lakh)**

It is proposed to install computers and up-gradation of IT System of DTL. An amount of Rs.100 lakh is approved for Annual Plan 2008-09 for the establishment of Finance, Engg., Wings and non-engg. Wings at Jhandewalan, Commercial & Store Purchase Department including installation of Computers and IT up-gradation network of DTL.

**5. Up-gradation of infrastructure (Rs.175 lakh)**

An outlay of Rs.175 lakh is provided under Annual Plan 2008-09 for up-gradation of infrastructure.

**POWER DEPARTMENT**

**1. Payment towards land premium/land acquisition for subsequent leasing to Discoms (Rs.1000 lakh)**

The three Distribution Companies viz. NDPL, BRPL and BYPL have been pressing for allotment of land at concessional rate for creation of new infrastructure including Grid Stations, installation of Transformer etc. The Ministry of Urban Development, Government of India have decided as follows:-

- a. DDA will allot land to Government of NCT of Delhi (GNCTD) at Zonal Variant Rates for setting up of electric sub-stations, etc. by Power Distribution Companies.
- b. GNCTD may in turn allow the Power Distribution Companies to set up electric sub-stations etc. on "right to use" basis and on such terms and conditions as GNCTD may enter into with Power Distribution Companies.
- c. The land should be put to use only for the specific purpose of setting up of electric sub-stations etc. and in no way put up to any other use or

commercially exploited. This should be specified in the allotment letter by DDA.

- d. DDA will allot only the minimum required land as per norms.

Subsequently, it has been decided in the Government of Delhi that GNCTD would make payment to DDA at Zonal Variant Rate alongwith ground rent, as applicable. Thereafter, GNCTD would sign a licence/lease agreement with the Distribution companies and would charge appropriate annual rent/licence fees from the Distribution companies. The licence deed would, inter alia, involve allowing the Distribution companies to use the land on "right to use" basis and on the basis condition that the land would be used only for the purpose of expansion of the distribution network and erection of related infrastructure and not for any other work. 14.5 hectares of land for 750 MW Power Plant at Bamnauli has already been purchased from DDA. Payment of Rs.109 crore has already been made to DDA for this land during 2007-08.

As the land would be initially obtained from DDA by GNCTD, initial payment has to be made by Government of Delhi. A provision of Rs.1000 lakh is approved for 2008-09 for this scheme.

## **2. Establishment of special courts (Rs.100 lakh)**

To curb the theft of Electricity, certain new provisions have been made in the Electricity Act, 2003. One such provision in this direction is made under Section 153 of the Electricity Act 2003, which provides for the constitution of Special Courts by the State Governments for the purposes of providing speedy trial of offences referred to in Section 135 to 139 of the said Act.

The sites for establishment of 5 Special Courts have been identified at Rohini, Vikas Puri, Wazirpur, Malviya Nagar and Patparganj. The sites have been inspected by the panel of officials, Registrar General (Admn.) and panel of Judges has approved its building plan. The buildings are being renovated, expenses of which would be incurred by Government of NCT of Delhi. As regards appointment of dedicated judiciary & allied staff for the Special Courts, it is informed that 45 posts (5 posts of judiciary cadre and 20 ancillary post) have already been sanctioned. The capital cost already borne by the Discom on creation of infrastructure of Special Court is to be submitted by Discom duly certified by their Auditors for the reimbursement by Power Department in consultation with PWD. An amount of Rs.150 lakh is approved for 2008-09 for the scheme.

## **3. Energy Conservation (Rs.500.00 lakh)**

An amount of Rs.500.00 lakh is approved for Energy Conservation in Annual Plan 2008-09.

**4. Delhi Electricity Regulatory Commission (Rs.450 lakh)**

The Delhi Electricity Regulatory Commission (DERC) was notified on 3rd March, 1999 under Electricity Regulatory Commissions Act, 1998. The Chairman of the Commission was appointed in December 1999. The Commission has been made functional and 34 posts on temporary basis have been sanctioned by the Government.

An amount of Rs.450 lakh is approved for 2008-09 to meet the salary expenditure and other day-to-day expenditure of DERC.

**5. Grievances Cell in Power Department (Rs.140.00 lakh)**

A Public Grievances Cell headed by a retired Judge of Delhi High Court with a Technical Member has started functioning from January, 2007 to deal with the grievances of citizens relating to the supply of electricity. Since there have been complaints in the past about the quality of electronic meters, it has been decided to get the meters tested on voluntary basis through a local office of the Central Power Research Institute under Government of India. As a further measure, performance standards for distribution companies have been finalized by the Delhi Electricity Regulatory Commission. When notified, these standards will become mandatory and if not complied with, penalties can be imposed on the Discoms. An amount of Rs.140 lakh is approved for 2008-09 for this scheme.

**6. VRS for IPGCL Employees (Rs.5000 lakh)**

For the payment of terminal/ Pension benefits to the employees of IPGCL opting VRS under Special Voluntary Retirement Scheme (SVRS) 2007, an amount of Rs.5000 lakh has been kept in 2008-09.